



**ECONOMIC COMMISSION FOR EUROPE**  
**ANNUAL REPORT**

(27 April 1980 – 8 April 1981)

**ECONOMIC AND SOCIAL COUNCIL**  
**OFFICIAL RECORDS, 1981**

**SUPPLEMENT No. 13**

VOLUME II

**UNITED NATIONS**



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**NOTE**

**Symbols of United Nations documents are composed of capital letters combined with figures.  
Mention of such a symbol indicates a reference to a United Nations document.**

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CHAPTER V

PROGRAMME OF WORK FOR 1981-1985

Introduction

The Commission's programme of work for 1981-1985, as considered and approved at the thirty-sixth session of the Commission, is reproduced as Chapter V of the Commission's Annual Report.

The programme of work is divided into the following programme categories:

- 01 - The Commission
  - 01 - Policy and co-ordination
  - 01 (a) - Engineering industries and automation
  - 01 (b) - General energy problems
  - 01 (c) - Standardization
- 02 - Agriculture
- 03 - Chemicals
- 04 - Coal
- 05 - Environment
- 06 - Electric power
- 07 - Gas
- 08 - Housing, building and planning
- 09 - Inland transport
- 10 - Science and technology
- 11 - Economic plans, programmes and perspectives
- 12 - Statistics
- 13 - Steel
- 14 - Timber
- 15 - Trade
- 16 - Water problems

01. - POLICY AND CO-ORDINATION OF THE WORK  
OF THE COMMISSION AS A WHOLE

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 01.1: ACTIVITIES OF THE COMMISSION AS A WHOLE  
AND PROGRAMMES OF WORK AND PRIORITIES

01.1.1. Review and guidance of the activities of the  
Commission as a whole: evaluation, co-ordination  
and formulation of programme of work

Description: At its annual sessions the Commission will consider its work as a whole; review and evaluate its own activity as well as that of its subsidiary bodies; guide the policy orientation, co-ordination and planning of the work carried out by the subsidiary bodies under its auspices; and formulate and approve its programme of work.

Method of work: The Commission will perform this function with the assistance of its Sessional Committee as appropriate, by considering at its annual sessions the reports of its subsidiary bodies on their work and the Executive Secretary's reports on the implementation of its relevant resolutions and decisions. The Commission will consider and approve annually its programme of work which will cover the next five years and will incorporate the programme of work of its Principal Subsidiary Bodies. The agreed policy guidance - which will include measures for co-ordination, integration and concentration of all activities carried out under the Commission's auspices - will be embodied in its resolutions and decisions for implementation, as appropriate, by the Governments, by the Commission's subsidiary bodies and its secretariat.

cont.

01.1.2. The work and future activities of the Commission

Description: At its thirty-sixth session the Commission, in its resolution 1 (XXXVI), reiterated its earlier decisions to continue to intensify co-operation among member countries in the framework of the work programme of the ECE, and reaffirmed the determination of member Governments to work towards an effective multilateral implementation of the pertinent provisions of the Final Act of the CSCE within the framework of the ECE, bearing in mind the importance of the principles and aims of the United Nations Charter at the regional level; and requested its subsidiary bodies to continue to take into account, for their work, the pertinent provisions of the Final Act which call for multilateral implementation within the framework of the ECE.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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In the same resolution, the Commission, inter alia,  
(a) requested the Executive Secretary to participate, if invited to do so, in activities that may result from the meeting in Madrid in accordance with the relevant provisions of the Final Act of the CSCE and, in that case, to make the necessary arrangements to that effect;  
(b) reiterated the suggestion that member Governments should study thoroughly the USSR Government proposal for the holding of all-European congresses in the fields of transport and energy in the light of further discussions in the Commission and the relevant provisions of the Final Act of the CSCE, and asked the Executive Secretary to circulate such views in regard to the proposal as member Governments may wish to communicate to him;  
(c) noted that the Executive Secretary would transmit under his own responsibility to the Secretary-General of the United Nations his proposal on the draft medium-term plan provided for in resolution 34/224 of the General Assembly together with the report of the thirty-sixth session of the ECE containing views of the members of the Commission, and decided to review the proposal for the medium-term plan at its thirty-seventh session to take into account views expressed by member Governments and all the decisions with programme implications taken during the current biennium;  
(d) approved its programme of work for 1981/82 and endorsed in principle, subject to review at its thirty-seventh session, its long-term programme of work for 1981-1985.

01.1.3. Economic co-operation in the Mediterranean  
in the light of the Final Act of the CSCE

Description: In accordance with Commission decisions B(XXXII), G(XXXIII), Q(XXXIV) and J(XXXV), the Commission and its Principal Subsidiary Bodies will continue to pay particular attention to projects and activities of interest to the Mediterranean countries of the ECE region, bearing in mind the relevant sections of the report of the Valletta Meeting; and will intensify co-operation with other competent international organizations on subjects of common interest to the Mediterranean countries. In operative paragraphs 2 and 3 of its decision F(XXXVI), the Commission requested the Executive Secretary to continue to co-operate with the secretariats of the Economic Commission for Western Asia and the Economic Commission for Africa and other relevant United Nations bodies and to pursue his contacts with all Mediterranean countries not members of the Commission,

Estimated duration (in years)	Estimated termination year
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on subjects within the competence of the ECE of common interest to the Mediterranean countries; and recommended to its subsidiary bodies to identify areas of interest for economic co-operation in the Mediterranean within the framework of over-all ECE activities and its programme of work.

01.1.4. Concentration and integration of the Commission's programme of work

Description: At its annual sessions the Commission will examine its programmes of work with a view to their concentration and integration, and will decide on which aspect of the programmes of work will be considered in greater detail at the following session.

At its thirty-sixth session, the Commission adopted its decision A (XXXVI) in which, inter alia, it

(a) invited the Principal Subsidiary Bodies to ensure that the programme of work of the Commission with regard to economic projections be carried out with due regard to the work of the Senior Economic Advisers and of other Principal Subsidiary Bodies;

(b) requested the secretariat to continue its work on the creation of an ECE data bank so that comparable data would be available to all Principal Subsidiary Bodies for their work on economic projections;

(c) invited the Principal Subsidiary Bodies to consider ways to improve co-ordination and co-operation among themselves by, for example:

(i) examining further possibilities for organizing their work jointly in areas of common interest as a means for avoiding unnecessary duplication and thus more effectively using ECE resources; and

(ii) examining means of strengthening the consultative process among themselves so that they may benefit from each other's views and advice before final decisions are reached, but without provoking unnecessary delays.

In the same decision, the Commission invited all the Principal Subsidiary Bodies, when reviewing their programmes of work, to evaluate regularly their activities in order, inter alia, to eliminate activities of marginal utility and release resources for other activities.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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The Commission further decided to select activities in the field of energy as the major topic to be considered in depth from the point of view of concentration, integration and co-ordination, encouraged member Governments to make fuller use of the opportunities offered by this review for streamlining and directing the programme of work as a whole, and requested the Executive Secretary to prepare a report in this respect for consideration at the thirty-seventh session and to pay particular attention to possible improvements which may be brought to the organization of work in this respect.

WORK AREA 01.2: ECONOMIC DEVELOPMENTS, PROBLEMS  
AND PROSPECTS IN THE ECE REGION

01.2.1. Review of economic developments, problems and  
prospects in the ECE region

Description: At its annual sessions the Commission will review economic developments, problems and prospects in the ECE region.

Method of work: The Commission will review annually the economic situation in its region using as background documentation the annual economic surveys, economic bulletins and other special studies and statistical bulletins prepared and published by the secretariat. The Commission's subsidiary bodies will take duly into account when reviewing and carrying out their programmes of work the interests of member countries which are developing from an economic point of view.

cont.

WORK AREA 01.3: CO-OPERATION WITH OTHER UNITED NATIONS  
PROGRAMMES AND BODIES

01.3.1. Review of Commission activities in support of  
other United Nations programmes and in  
co-operation with other United Nations bodies

Description: At its annual sessions the Commission will review its activities in support of and its contribution to other United Nations programmes, especially those of UNDP, UNCTAD, UNIDO and UNEP as well as of the other regional commissions. It will also consider matters relating to its co-operation with other United Nations bodies including the specialized agencies such as ILO, FAO, UNESCO and WHO as

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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well as IAEA. Special attention will be paid to problems of the member countries of the ECE which are developing from the economic point of view as part of the Commission's contribution to the global programmes and objectives of the United Nations aiming at economic development.

Method of work: The Commission will carry out this review annually on the basis of the Executive Secretary's reports on the participation of such organizations and programmes in the Commission's work; on the Commission's own contribution to these programmes; and on the secretariat's co-operation with the secretariats of these organizations, including the secretariats of the other regional commissions.

cont.

WORK AREA 01.4: CO-OPERATION WITH OTHER INTERNATIONAL ORGANIZATIONS

01.4.1. Review of Commission activities involving co-operation with other international organizations

Description: At its annual sessions the Commission will review its activities related to co-operation with other intergovernmental organizations such as the Council for Mutual Economic Assistance and the European Economic Community, and with international non-governmental organizations participating in the work of the Commission and its subsidiary bodies.

Method of work: The Commission will undertake this review annually on the basis of the Executive Secretary's report on the relevant activities arising out of the participation of such organizations and their secretariats in, and the contribution they make to, the work of the Commission and its subsidiary bodies.

cont.

\* \* \*



01.(a) - ENGINEERING INDUSTRIES AND AUTOMATION

Note: At its thirty-sixth session the Commission adopted its decision H (XXXVI) (for the text see Chapter IV above) by which it approved the following programme of work in the field of engineering industries and automation.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 01(a).1: MEDIUM- AND LONG-TERM PERSPECTIVES

01.(a).1.1 Medium- to long-term assessment of the role and place of engineering industries in national and world economies

Description: The Working Party will undertake, at intervals of five to seven years, a complete review of engineering industries, special attention being paid to structural changes in these industries.

Method of work On the basis of the annual reviews of engineering industries, the secretariat with the help of governmental rapporteurs will prepare a study for consideration by the Working Party.

cont.

01.(a).1.2 The prospective medium- and long-term impact of automation on the economy as a whole and on individual branches in particular

Description The Working Party will consider the impact of automation on selected economic sectors, paying particular attention to the branches of industry dealt with by the Principal Subsidiary Bodies of the Commission.

Method of work The secretariat will undertake, with the assistance of government rapporteurs and in co-operation with the Senior Advisers to ECE Governments on Science and Technology and the Senior Economic Advisers to ECE Governments, a study of future techno-socio-economic trends concerning the level of automation in the various branches of the economy, trying to assess the growth and efficiency of those branches. As a first step, an ad hoc Meeting of Experts should be convened in 1981 to consider how to improve the methodology needed to assess the techno-economic trends in automation, their influence and/or consequences.

cont.

01.(a).1.3 Co-operation with the Senior Economic Advisers to the ECE Governments on the long-term economic prospects for the ECE region

Description The Working Party will consider and comment on the over-all long-term economic prospects in its specific sectors for the perspectives to be prepared by the Senior Economic Advisers to the ECE Governments.

Method of work The secretariat will prepare as appropriate, the necessary documentation concerning engineering industries and automation for examination and will assist the Working Party in carrying out its work on this project.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 01(a).2. CURRENT DEVELOPMENTS AND PROSPECTS

01.(a).2.1 Short-term problems in the engineering industries  
and automation

Description: The Working Party will hold annually a general debate on the situation relating to developments in engineering industries and automation in the ECE region when views on current trends and policies in ECE countries may be exchanged and problems of common interest and possible solutions determined; a particular sector deserving special attention will be selected for inclusion in the following year's review. An annual review will be prepared on the basis of country statements made and information collected by means of a questionnaire.

Method of work Governments will submit to the secretariat, as a part of their country statements considered at the annual sessions, a general analysis of developments and applications concerning engineering industries and automation. The secretariat will include the material in the short background analysis of developments in engineering industries and automation within the general economic context of countries in the ECE region.

cont.

WORK AREA 01(a).3: SELECTED ECONOMIC AND TECHNOLOGICAL  
PROBLEMS

01.(a).3.1 Present use and prospects for precision  
instruments in engineering industries

Description: Bearing in mind the wide use of precision instruments whose growth is closely connected with the development of other branches of engineering industries, the Working Party will provide a forum for the exchange of views on their techno-economic developments and future trends.

Method of work: The secretariat will make a further collection of information to form the basis for another circulation of material to ECE member countries and the analysis of it will be presented to the Seminar on Present Use and Prospects for Precision Measuring Instruments in Engineering Industries to be held from 20 to 24 September 1982 in the German Democratic Republic. A preparatory meeting for this Seminar was held in February 1981.

2

1982

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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01.(a).3.2 Innovation in biomedical equipment

Description: The Working Party, bearing in mind the wide interest in studying possible ways and means of harmonizing technical requirements for medical instruments and the fostering of common research in this field, will provide a forum for an analysis of the problems involved, especially regarding techno-economic aspects and future trends.

Method of work: A Seminar on this topic will be held at the invitation of the Government of Hungary in its country in spring 1983. A preparatory meeting will be convened in due time.

2	1983
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01.(a).3.3 Techno-economic aspects of the international division of labour in the automobile industry (including production sharing, especially East-West connections in this field)

Description: The Working Party will study techno-economic aspects of the international division of labour in the automobile industry and promote the exchange of information.

Method of work: A study on this topic will be undertaken by the secretariat, with the help of governmental rapporteurs, taking into account work done under the auspices of other ECE bodies. An ad hoc Meeting will be convened before the end of 1981. A seminar on this topic will take place in Poland at a date to be determined at a later stage.

4	1985
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01.(a).3.4 Development of airborne equipment to intensify world food production

Description In the light of the conclusions and recommendation of the Seminar on Techno-economic Trends in Airborne Equipment for Agriculture and other Selected Areas of the National Economy, the Working Party should continue to provide a forum for the exchange of experience on technical and economic aspects and determine present state and future trends.

Method of work: The study on this subject should be continued on the basis of material submitted to the above-mentioned Seminar with the help of experts from interested countries. The ad hoc Meeting was held in November 1980; it recommended how best to finalize the study and to issue it as soon as possible. The Working Party will consider at a later stage how to continue work with regard to airborne equipment.

2	1981
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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01.(a).3.5 Automation of assembly processes in the  
engineering industries

Description: The Working Party will examine developments in the automation of assembly for small and large serial production. A review of the equipment available, preconditions for assembly automation and inhibiting factors will be made. Possible fields for international co-operation will be outlined.

Method of work: A Seminar on Automation of Assembly in Engineering Industries will be held in Geneva (Switzerland) from 22 to 25 September 1981, with the programme and scope as defined by the Preparatory Meeting held in November 1980.

1

1981

01.(a).3.6 Development and use of powder metallurgy in  
engineering industries

Description: Following the conclusions of the Study on Measures for Saving Materials in Engineering Industries, the Working Party will examine techno-economic aspects of the use of powder metallurgy in engineering industries. Trends of this sub-branch of engineering industries will be considered for the manufacture of metal powders and products of powder metallurgy, analysing the impact of automation, especially flexible automation, as well as socio-economic consequences, including training of specialists. The Working Party will provide a forum for an exchange of views and information in this field.

Method of work: A seminar on this topic will be held in the Byelorussian SSR in 1985 at the invitation of the Government of that country. A preparatory meeting should be convened in due time. A study may be undertaken at a later stage, taking into account work done under the auspices of other ECE bodies.

1

1985

01.(a).3.7 Techno-economic aspects of the production  
and use of forge and pressing equipment

Description: The techno-economic aspects of forge and pressing equipment with a view to promoting an inter-disciplinary approach to the problem of improving working conditions in forging shops should be considered.

Method of work: A seminar will be held at a date to be determined, probably in 1984; a tentative invitation, extended by the Austrian authorities, will be confirmed at a later stage.

1

1984

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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01.(a).3.8 The production and use of automation equipment in the member countries of the ECE which are developing from the economic point of view

Description: The Working Party will contribute to the collective efforts of the various organs of the United Nations system to promote the application of science and technology to development. It will seek out specific fields of application in the economically developing countries of the ECE region for the purpose of mutually beneficial industrial co-operation.

Method of work: The secretariat reported on the present state of activities concerning this project and the Working Party decided to revert to this work at a later stage, keeping in mind the possibility of holding a seminar.

2	1984
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01.(a).3.9 Analysis of the introduction of new production methods in engineering as related to the man-machine-management system

Description: Following the conclusions and recommendations of the Seminar on Industrial Robots and Programmable Logical Controllers, it was proposed that study continue of the introduction of flexible automation tools in production systems with due reference to the socio-economic problems of man-machine interfaces; including mechanization and automation of monotonous, hard or harmful manual work in engineering industries.

Method of work: This project might be the subject of a seminar to be held at a date and place to be determined by the Working Party at a later stage.

1	1985
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WORK AREA 01(a).4: ENVIRONMENTAL AND RESOURCE SAVING PROBLEMS 1/

01.(a).4.1 Measures for improving engineering equipment with a view to more effective energy use

Description: The Working Party will study the present state and future trends in production and application of engineering equipment and means of automation aiming at saving energy resources.

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1/ When implementing the projects included in this work area, due care will be taken to avoid any unnecessary duplication of work and to arrange, as appropriate, for co-operation with the Senior Advisers to ECE Governments on Environmental Problems.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<p><u>Method of work:</u> A study will be prepared, with contributions from government rapporteurs and with informal meetings of these rapporteurs to assist the secretariat in co-operation with the Senior Advisers to ECE Governments on Energy. A seminar may be held at a later stage, taking into account work done under the auspices of other ECE bodies.</p>	2	1984
<p>01.(a).4.2 <u>Low waste processes and automated equipment for production of precision castings</u></p>		
<p><u>Description:</u> Low waste processes and automated equipment for the production of precision castings by engineering industries should be studied as a follow-up to the Seminar on Engineering Equipment for Foundries and Advanced Methods for Producing such Equipment; new technologies and methods of work will be reviewed, and their efficiency assessed by the exchange of national experiences.</p>		
<p><u>Method of work:</u> A seminar will be held at a date and place to be determined later by the Working Party.</p>	1	1985
<p>01.(a).4.3 <u>Production of engineering equipment for preventing pollution, particularly associated with water and application of automation for monitoring the environment</u></p>		
<p><u>Description:</u> The Working Party will study present and future trends in engineering equipment for preventing pollution, particularly associated with water as well as the application of automation related to these problems. It is expected that exchange of experience and information will lead to better identification of problems and help ECE Member Governments seek appropriate solutions.</p>		
<p><u>Method of work:</u> A study will be prepared, with contributions from government rapporteurs and with informal meetings of these rapporteurs helping the secretariat, and it will be brought to the attention of the Senior Advisers to ECE Governments on Environmental Problems and the Committee on Water Problems as a sectoral contribution.</p>	3	1985

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 01(a).5: STATISTICS AND INFORMATION

01.(a).5.1 Bulletin of Statistics on World Trade in Engineering Products, including equipment related to automation

Description: The Working Party, in co-operation with the Conference of European Statisticians, will continue to collect and regularly publish export statistics on engineering products, including those related to automation, and seek further improvement of the contents of the Bulletin, in particular those which may result from the adoption of the SITC, Rev.2.

Method of work: The secretariat will collect the required information from Governments and publish it in an annual bulletin periodically reviewing its scope in particular in the light of the SITC, Rev.2. When required, joint meetings will be organized.

cont.

01.(a).5.2 Enlargement of the scope of statistics in order to cover production, deliveries, etc. of engineering products, including those related to automation

Description: The Working Party, in co-operation with the Conference of European Statisticians, will investigate the possibilities of enlarging the scope of statistics in the field of engineering industries and automation to be collected and published by the ECE.

Method of work: The secretariat is entrusted to continue investigation of the availability of production and delivery statistics for engineering products in the ECE countries; the results to be presented regularly to the Working Party.

cont.

01.(a).5.3 Work on statistical problems (methodology, definitions, data collection, etc.)

Description: The Working Party will further the work on the statistical problems on engineering statistics including those related to automation equipment in the ECE region jointly with the Conference of European Statisticians.

Method of work: Statistical problems will be approached in co-operation with the Conference of European Statisticians. The secretariat was entrusted to continue further work on a regular basis, such as the elaboration of a list of statistical problems concerning engineering industries and an ad hoc Meeting on Statistics concerning Engineering Industries and Automation will be held in June 1981, with a joint meeting tentatively scheduled for June 1982.

cont.

01(b) - GENERAL ENERGY PROBLEMS

Note: At its thirty-sixth session the Commission adopted its resolution 1 (XXXVI) (for the text see Chapter IV above) by which inter alia it approved the following programme of work in the field of general energy problems.

	<u>Estimated duration (in years)</u>	<u>Estimated terminatio: year</u>
<u>WORK AREA 01(b).1: ENERGY PROGRAMMES, POLICIES AND PROSPECTS</u>		
(a) Review of national energy programmes, policies and prospects		cont.
(b) Exchange of information, views and experience on selected general energy problems		cont.
(c) Integration of environmental objectives into energy policies		cont.
(d) Review of work in ECE on medium-term and long-term trends and prospects in the energy field		cont.

Description: Pursuant to operative paragraph 2(a) of decision B (XXXIV) the Senior Advisers will "undertake an extensive exchange of information, views and experiences between member States on general energy problems, including an extensive exchange of information, views and experiences regarding energy resources and national objectives and policies in these areas".

Method of work: These activities will take place on the occasion of meetings and seminars convened by the Senior Advisers. The exchanges of views will be based on information transmitted by Governments, and on secretariat studies.

WORK AREA 01(b).2: ENERGY DEMAND AND SUPPLY

(a) Consideration of significant new developments affecting energy demand and supply in the short, medium and long-term		cont.
(b) Development of comprehensive ECE energy demand/supply balances for past and future years		cont.
(c) Analysis of the role of specific energy sources in over-all energy programmes		cont.



	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(d) Evaluation of capital requirements	2	1981
(e) Appraisal of the potential for new and renewable sources of energy	cont.	
(f) The comparative merits of energy sources in meeting end-use heat demand	2	1982

Description: The Senior Advisers will consider problems and factors affecting the short-, medium- and long-term energy balances of the ECE region, as well as perspective developments.

Method of work: These activities will take place on the occasion of meetings or seminars convened by the Senior Advisers. The exchanges of views will be based on information transmitted by Governments and on secretariat studies.

With regard to project component (a), the Senior Advisers will review significant developments affecting demand and supply at their annual sessions.

Project component (b) will be dealt with in co-operation with the Senior Economic Advisers to ECE Governments and the Conference of European Statisticians, taking into account the results of project component 1(a). The Senior Advisers may also wish to examine the Energy Data Bank set up by the secretariat with a view to updating the data, improving its contents and facilitating access by Governments.

In project component (c), the Senior Advisers will focus on the role of specific forms of energy in over-all balances, in co-operation particularly with the Committee on Coal, Gas and Electric Power.

In project component (d), the Senior Advisers will deal with investment needs and financing issues of the energy sector (suppliers as well as consumers) and co-operate with the Senior Economic Advisers to ECE Governments on macro-economic implications, taking into account document "Energy investments prospects to 1990 in the ECE Region" (EC.AD(XVII)/R.5) prepared for the Senior Economic Advisers.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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When dealing with project component (e), the Senior Advisers may take into account the results of the Seminar on Technologies related to New Sources of Energy, organized by the Senior Advisers to ECE Governments on Science and Technology in Jülich (Federal Republic of Germany) from 8 to 12 December 1980, the results of which constitute an input into the United Nations Conference on New and Renewable Sources of Energy to be held in 1981 (SC.TECH/SEM.7/2).

Project component (f) will be dealt with at a symposium to be held in Ohrid, Yugoslavia from 6 to 10 September 1982.

WORK AREA 01(b).3: ENERGY TRADE AND CO-OPERATION

- |  |       |      |
|--|-------|------|
| (a) Review of energy trade and co-operation  | cont. |      |
| (b) Surveys of energy trade and co-operation agreements                                    | 2     | 1982 |
| (c) Identification and analysis of energy projects suitable for international co-operation | cont. |      |

Description: The Senior Advisers will examine the actual, anticipated and potential trade in energy of ECE countries. The potential for supplementing traditional trade by new forms of international co-operation in the field of energy will also be examined.

Method of work: The Senior Advisers will deal with this project at their sessions and at seminars, in close co-operation with other Principal Subsidiary Bodies concerned.

With regard to project component (a), the Senior Advisers will review the actual situation and prospects of energy trade and co-operation, particularly east-west energy trade and co-operation.

Project component (b) will be implemented through an updating of earlier analysis of east-west trade and co-operation agreements.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Under project component (c), the Senior Advisers may consider specific energy projects suitable for international co-operation with a view to undertaking a study and analysis of such projects. A Seminar on "Problems and opportunities of east-west energy trade and co-operation", will be held in close co-operation with the Committee on the Development of Trade.

WORK AREA 01(b).4: ENERGY CONSERVATION

- |   |       |      |
|---|-------|------|
| (a) Analysis of national energy conservation policies   | cont. |      |
| (b) Specific measures for energy conservation   |       |      |
| (i) Improved extraction, processing and rational utilization of energy  | 1     | 1981 |
| (ii) Economic and rational utilization of energy resources in all energy-intensive sectors by development and application of new technologies |       |      |
| (iii) Future methods of substitution for oil by other primary or secondary forms of energy  |       |      |
| (c) Review of work done or planned in the ECE framework relating to energy economy and efficiency   | cont. |      |

Description: The Senior Advisers will undertake periodic exchanges of information and views on measures adopted and envisaged to achieve greater energy economy and efficiency, as well as on the results of these measures; they will also undertake periodic reviews of work done or planned in ECE in this field.

Method of work: The reviews will take place on the occasion of ad hoc meetings and seminars convened by the Senior Advisers, as appropriate in co-operation with other Principal Subsidiary Bodies.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Component (b) (i) consists of the implementation of the results of the Seminar on Improved Techniques for the Extraction and Primary Forms of Energy held in Vienna (Austria), 10-14 November 1980 (ECE/SEM.4/2).

Project component (b) (ii) will be implemented by a Symposium on rational utilization of secondary forms of energy in the economy, particularly in industry, as well as additional seminars and secretariat studies.

Project component (c) will be implemented on the basis of a report prepared by the secretariat for consideration by the Senior Advisers on Energy at their next meeting.

\* \* \*

01.(c) - STANDARDIZATION

Note: At its thirty-sixth session the Commission adopted its decision C (XXXVI) (for the text see Chapter IV above) by which it approved the following programme of work in the field of standardization.

Estimated duration (in years)	Estimated termination year
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WORK AREA 01.(c).1: INTERNATIONAL HARMONIZATION OF  
 STANDARDS AND TECHNICAL  
 REGULATIONS

01.(c).1.1 International and national developments and  
 prospects

cont.

Description: Regular reviews at approximately three-year intervals of international and national developments and prospects related to standardization and certification policies pursued by ECE Governments, by international standardizing bodies and by standards organizations with the aim of making suitable proposals and of indicating organizations to be responsible for their realization.

Method of work: Regular Meetings of Government Officials Responsible for Standardization Policies, and intersessional work of the Group of Experts on Standardization Policies.

01.(c).1.2 Harmonization of standards and technical  
 regulations

Description: Identification of concepts and problems.

2

1992

Method of work: Consideration by Meetings of Government Officials and their Group of Experts on the basis of comments received from ECE Governments, international and regional standardizing bodies and proposals made by ISO and IEC.

01.(c).1.3 Identification of sectors which are of interest  
 to ECE Governments with a view to providing  
 regular guidance for programmes of work for  
 international standardization

cont.

Description: Review of a list of sectors which are of interest to ECE member Governments and of the criteria on which the list is compiled with a view to providing regular guidance for programmes of work for international standardization.

Method of work: Consultations on the basis of contributions by Governments and international standardizing bodies and standards organizations at Meetings of Government Officials and their Group of Experts.

Estimated duration (in years)	Estimated termination year
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01.(c).1.4. Identification of problems in the field  
of international standardization

cont.

Description: Review of problems brought to the attention of Meetings of Government Officials by ECE member Governments, other international organizations and/or ECE subsidiary bodies.

Method of work: Reports will be prepared by the secretariat on such problems; the use of SI units will be treated with priority.

01.(c).1.5. Preparation and implementation of  
recommendations

2

1982

Description: Formulation of new recommendations on standardization policies and revision of the publication containing adopted Recommendations in order to obtain a consistent set of Recommendations. Periodic reviews of the implementation of adopted recommendations.

Method of work: Regular preparation of draft recommendations by the secretariat on the basis of contributions by ECE Governments and discussions at Meetings of Government Officials and their Group of Experts. Review of the answers received to the questionnaire on the implementation of the Recommendations adopted by the sixth session of the Group of Experts in order to develop the Recommendations further and to improve their implementation.

01.(c).1.6. Impact of standardization on international  
trade

cont.

Description: As soon as the study under way in ISO is available consideration will be given to the possibilities of developing methods of evaluation of the economic impact of standardization on international trade in selected sectors and of compiling a bibliography of studies of the economics of standardization.

Method of work: Co-operation with ECE Governments and subsidiary bodies and other international organizations, in particular the ISO and IFAN, to identify sectors and establish the bibliography.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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01.(c).1.7. Presentation of ECE recommended standards

2

1982

Description: Consideration will be given to possible methods of aligning ECE recommended standards to the layout used by ISO and IEC in accordance with recommendation B.6.4. (ECE/STAND/17).

Method of work: On the basis of a revised secretariat list of ECE-recommended standards and in the light of views to be expressed by other ECE bodies, the Group of Experts will prepare a draft recommendation.

WORK AREA 01.(c).2: CERTIFICATION

01.(c).2.1. Acceptance of certificates of conformity with standards and technical regulations

cont.

Description: Review and promotion of international agreements and other appropriate arrangements on acceptance of certificates of conformity with standards and technical regulations.

Method of work: Consideration at Meetings of Government Officials and their Group of Experts of appropriate measures on the basis of contributions by ECE Governments and relevant international organizations.

01.(c).2.2. Identification of problems in the field of certification

cont.

Description: Review of problems brought to the attention of Government officials by ECE member Governments, other international organizations and/or ECE subsidiary bodies.

Method of work: Reports on such problems will be prepared by the secretariat.

01.(c).2.3. Impact of certification on international trade

cont.

Description: Consideration will be given to the possibilities of developing methods of evaluating the economic impact of certification arrangements on international trade.

Method of work: Co-operation with ECE Governments and subsidiary bodies and other international organizations, in particular CEN and CEMA, to identify sectors of interest.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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01.(c).2.4. Guidelines for certification systems

cont.

Description: Study of the concepts underlying international, regional and national certification systems.

Method of work: Discussions at meetings of the Group of Experts with a view to presenting draft recommendations to Meetings of Government Officials in due course.

WORK AREA 01.(c).3: TESTING

01.(c).3.1. Collection and dissemination of information on international, regional and national testing arrangements and systems

cont.

Description: Consideration will be given to the possibilities of collecting and disseminating information on the main features of international, regional and national testing arrangements and systems, including contact points for further information and definitions used.

Method of work: Collection of basic information by the secretariat in co-operation with ECE Governments and ECE subsidiary bodies and other international bodies or Conferences for consideration by the Group of Experts and Meetings of Government Officials.

01.(c).3.2. International and national developments and prospects

cont.

Description: Regular reviews and analysis of recent developments and prospects as regards the establishment of national programmes for determining competency of test laboratories and assuring confidence in their test data.

Method of work: Identification and discussion of any required action at regular meetings of Government Officials Responsible for Standardization Policies and inter-sessional work of the Group of Experts on Standardization Policies.



Estimated duration (in years)	Estimated termination year
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01.(c).3.3. Harmonization of criteria and procedures for determining competency of test laboratories cont.

Description: Identification of concepts and problems, notably: criteria and procedures for determining competency of test laboratories; technical barriers to trade linked to testing arrangements and systems; and study of the possibilities to overcome identified problems by harmonizing criteria and/or procedures.

Method of work: Consideration by Meetings of Government Officials and their Group of Experts on the basis of comments received from ECE Governments, the ECE secretariat and international and regional organizations dealing with testing or the representatives of their secretariats.

01.(c).3.4. Preparation and implementation of recommendations cont.

Description: Development of recommendations aimed at the reduction or progressive elimination of technical barriers to trade linked to testing arrangements or systems through multilateral acceptance of test data provided by laboratories in other countries where the competence of these laboratories and the confidence in their test data have been established.

Method of work: Preparation of draft recommendations by the secretariat on the basis of contributions by ECE Governments and interested bodies; discussions at Meetings of Government Officials and their Group of Experts.

WORK AREA 01.(c).4: DEFINITIONS

01.(c).4. Approval of definitions cont.

Description: Approval and promotion of internationally-accepted definitions for terms used with regard to technical regulations, standardization, certification and testing policies.

Method of work: Co-operation with relevant international organizations. Discussions at Meetings of Government Officials and their Group of Experts.

02. - AGRICULTURE

Estimated duration (in years)	Estimated termination year
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WORK AREA 02.1: LONG-TERM TRENDS AND PERSPECTIVES

02.1.1. Periodic review of selected long-term  
developments in agriculture

Description: The Committee selects those long-term developments which it wishes to review and decides on an appropriate method of work.

cont.

02.1.1.1. Long-term market developments

Description: Market trends for protein-rich feedingstuffs. Specific products still to be determined by the secretariat with the assistance of national experts.

Method of work: Technical report(s) on the basis of material supplied by countries in reply to a questionnaire (or questionnaires).

2-3

1984

02.1.2. Co-operation with the Senior Economic  
Advisers on long-term trends and  
perspectives

Description: Without engaging in any long-term projections of its own, the Committee will, whenever the occasion arises, make available to the Senior Economic Advisers its comments on their work on long-term trends and perspectives as far as they relate to agriculture and as far as countries consider such comments necessary.

Method of work: The secretariat will inform the Committee of relevant documentation for its examination.

cont.

02.1.3. Study of long-term perspectives for  
agriculture in Southern Europe  
(including island countries) with  
particular reference to the agrarian  
structures and employment

Description: The Committee will decide on specific subjects under this project at a later date.

Method of work: [Pending the decisions of the Committee].

Estimated duration (in years)	Estimated termination year
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WORK AREA 02.2: CURRENT DEVELOPMENTS AND SHORT-  
AND MEDIUM-TERM PROSPECTS,  
INCLUDING INTERNATIONAL TRADE

02.2.1. Review of current developments in  
agriculture and agricultural trade

Description: At its annual sessions the Committee will review the current developments and policy changes in agriculture as well as the recent developments in agricultural trade of the ECE region.

Method of work: On the basis of advance country statements the secretariat will continue to prepare a policy and a statistical summary as background documentation for the Committee's discussion. A report on recent developments in agricultural trade and a report on prices of agricultural products and of selected inputs, the latter based on the replies to an annual questionnaire (established in line with the wishes of Governments) will also be prepared by the secretariat for each Committee session.

cont.

02.2.2. Review of the market situation and  
of the short- and medium-term  
prospects for selected commodities

Description: The Committee will review at its annual sessions the market situation and the short- and medium-term prospects for selected commodities, notably for cereals, livestock and meat, dairy products and (every other year) eggs.

Method of work: For each selected commodity a report intended to serve as background document for discussion, will be produced by the secretariat in two parts, i.e. a text part with a concise presentation (of 10 to not more than 15 pages) of major market developments, and a separate statistical annex.

cont.

02.2.3. Commodity problems of special interest  
to the member countries of the ECE which  
are developing from the economic point  
of view

Description: The Committee will select appropriate commodity problems concerning these countries (including the island countries) for consideration.

Method of work: [Pending the decisions of the Committee] cont.

	Estimated duration (in years)	Estimated termination <u>year</u>
02.2.4. <u>Special activities aimed at promoting and facilitating international trade */</u>		
02.2.4.1. Standardization of perishable produce		
(a) Elaboration of new UN/ECE standards		
(i) Dry and dried produce	cont.	
(ii) Fresh fruit and vegetables (courgettes, radishes)	2	1983
(iii) Poultry meat	4	1983
(iv) Egg products	7	1984
(b) Revision and publication of UN/ECE standards		
(i) Revision	cont.	
(ii) Publication of horticultural standards and standards for dry and dried fruit	3	1983
(c) Collaboration in the FAO/WHO Food Standards Programme (fruit juices and quick frozen food)	cont.	
<u>Description:</u> The Committee, through its Working Party, will elaborate new and, when necessary, revise existing standards for selected products; it will publish and disseminate new and existing standards; it will also continue to collaborate with the FAO/WHO Codex Alimentarius Commission.		
<u>Method of work:</u> Work will be conducted by the Working Party on Standardization of Perishable Produce at its annual sessions and by Groups of Experts established by the Working Party for individual product groups and for limited periods (which meet as necessary).		
	cont.	
02.2.4.2. International agricultural trade practices		
<u>Description:</u> Elaboration of general conditions of sale for milk and milk products.		
<u>Method of work:</u> The work will be conducted by the Group of Experts on International Trade Practices of the Working Party on Standardization of Perishable Produce.		
	5	1986

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\*/ Projects 02.2.4.1. and 02.2.4.2. are carried out by the Working Party on Standardization of Perishable Produce and its Groups of Experts.

Estimated duration (in years)	Estimated termination year
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WORK AREA 02.3: SELECTED ECONOMIC AND TECHNOLOGICAL PROBLEMS

02.3.1. Studies of problems relating to agrarian structure and farm rationalization \*/

02.3.1.1. Economics of alternative agricultural production

Description: A review of various possibilities of alternative production (e.g. using no chemical inputs, livestock production under natural conditions, etc.)

Method of work: Round-table discussion at the fifth session with contributions from all participating countries.

2	1982
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02.3.1.2. Economic and social aspects of the rational use of natural resources

Description: A review of scientific and technical progress, its impact on the rational use of natural resources, and the organization of the use of natural resources in agriculture.

Method of work: Discussion at the fifth session of the Working Party on the basis of case studies prepared by government rapporteurs.

2	1982
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02.3.1.3. Agriculture and tourism

Description: Discussion of the influence of tourism on the development of rural regions, and of all forms of farm tourism.

Method of work: Symposium to be held in Finland.

1	1982
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02.3.1.4. Social policies related to economic and structural changes in agriculture

Description: A detailed outline (drafted by a government rapporteur) for the national reports to be prepared on this topic will be discussed and finalized at the fifth session of the Working Party.

Method of work: Discussion at the sixth session of the Working Party on the basis of case studies prepared by government rapporteurs.

2	1984
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\*/ The projects under this heading are carried out by the FAO/ECE Working Party on Agrarian Structure and Farm Rationalization; this Working Party is also concerned with the joint symposium listed under 02.3.5.3.

	Estimated duration (in years)	Estimated termination year
02.3.1.5. Modern methods and technical auxiliary means for solving farm management problems		
<u>Description:</u> A review of the use and impact of mini-computers, terminals, video texts etc., in farm management.		
<u>Method of work:</u> Round-table discussion at the sixth session with contributions from all participating countries.		
	2	1984
02.3.2. <u>Studies of problems relating to agricultural mechanization **/</u>	cont.	
02.3.2.1. Annual review of recent developments and changes in agricultural mechanization	cont.	
02.3.2.2. Studies of energy problems relating to mechanization		
(a) Changes and Trends in the Quantity and Balance of Energy Consumption in Agriculture	2	1981
(b) Application of Solar Energy in Agriculture	2	1982
02.3.2.3. Work on terminology (Terms and definitions on soil preparation)	5-6	1982 - 1983
02.3.2.4. Reports on more specific technical problems		
(a) Methods and Machines for Deep Loosening of Soil	2	1981
(b) Technical Aspects Contributing to Optimal Utilization of Agricultural Machinery	2	1982
(c) The Use of Electronics and Microprocessors for Monitoring and Control of Agricultural and Horticultural Machinery and Equipment	2	1982
(d) Design of Agricultural Machinery from the Point of View of Human Engineering	2	1982
(e) Mechanization of Sunflower Production	2	1982

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\*\*/ All projects under this heading are carried out by the FAO/ECE Working Party on Mechanization of Agriculture; this Working Party is also concerned with the joint symposium listed under 02.3.5.3. and with the environmental problems which appear under 02.4.1.

	Estimated duration (in years)	Estimated termination year
02.3.2.5. Annotated outlines of reports proposed for inclusion in the work programme		
(a) Review of Existing Technological Processes in the Mechanization of Livestock Production in Order to Reduce Energy Consumption	1	1981
(b) New Aspects of the Improved Technologies for Soil Preparation and the Construction of Cultivating Machinery	1	1981
(c) Crop Cultivation Systems under the Specific Angle of Soil Cultivation	1	1981
(d) Systems and Equipment for Efficient Use of Wood, Straw and Peat as Fuel in Agriculture	1	1981
(e) Improvement of Machinery for Chemical Fertilizer Application with a View to Achieving a More Even Spread over Agricultural Land	1	1981
(f) Organization of Transportation and Transport Equipment on Farms	1	1981

Description: All studies listed under project 02.3.2. are (or will be) selected by FAO/ECE Working Party on Mechanization of Agriculture and approved by the Committee.

Method of work: Studies and reports prepared by government rapporteurs (or teams of government rapporteurs) and discussed at the annual sessions of the Working Party. These reports are selected provisionally at the annual sessions for confirmation at the following session on the basis of annotated outlines and announced national contributions of material.

cont.

02.3.3. Marketing problems relating to agricultural products

02.3.3.1. Catering

Description: Discussion of economic and technological aspects of catering.

Method of work: Symposium to be held in Hungary. 3                      1982





<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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02.3.4.4. Problems of land use and land-use planning

Description: If a sufficient number of countries, in reply to a draft questionnaire circulated for comments, indicates interest and the possibility of supplying relevant material, the Committee will study the legal aspects of land protection.

Method of work: Technical report prepared by government rapporteurs on the basis of material supplied by countries in reply to a questionnaire.

2	1983
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02.3.4.5. Water problems in agriculture

Description: Pending the final agreement by the Committee on Water Problems, the Committee on Agricultural Problems selected, in line with the proposals of the other Committee, the following specific topics, arranged in order of their priority: economic instruments for the rational utilization of water in irrigation; improved irrigation practices to preserve and protect water resources and increase crop yields; improved irrigation practices to conserve energy.

Method of work: Project to be dealt with jointly, on an ad hoc basis for each topic, with the Committee on Water Problems; concrete methods for each topic still to be determined. The timing depends on the decisions still to be taken by the Committee on Water Problems.

02.3.5. Selected technological and economic problems relating to animal production and feedingstuffs \*/

02.3.5.1. Genotype X keeping conditions, animal welfare and protection

Description: Study of the specific keeping conditions of large intensive animal breeding which requires other genetic "models" than the keeping conditions of extensive breeding to achieve optimum results, and of the relevant aspects of animal welfare and protection.

Method of work: Technical reports prepared by government rapporteurs on the basis of material supplied by countries in reply to a questionnaire (or questionnaires). A report on poultry holdings has been circulated for comments.

3	1982
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\*/ See also project 02.4.2. (water pollution from animal production).

	Estimated duration (in years)	Estimated termination year
02.3.5.2. Feeding methods		
<u>Description:</u> Study of the feeding methods in large livestock farms and of the possible diets best adapted to intensive production.		
<u>Method of work:</u> Technical reports prepared by government rapporteurs.	3	1982
02.3.5.3. Managerial and economic aspects of large livestock farms, and technical, economic and sanitary aspects of their buildings and equipment		
<u>Description:</u> Discussion in depth of all aspects relating to the practical organization and the management of large livestock farms and to their fixed capital (as regards buildings, machinery and other technical equipment).		
<u>Method of work:</u> Joint symposium of the FAO/ECE Working Parties on Agrarian Structure and Farm Rationalization and on Mechanization of Agriculture.	2	1981
02.3.5.4. The problems of large livestock farms		
<u>Description:</u> Final evaluation by the Committee of the economic, technical, managerial, environmental and sanitary aspects of large livestock farms.		
<u>Method of work:</u> A summary report, prepared by a government rapporteur (or rapporteurs), drawing the conclusions from the results of projects 02.3.5.1. to 02.3.5.3. and 02.4.2.; and submitted to the Committee for in-depth discussion.	2	1983
02.3.6. <u>Studies of particular interest to the member countries of the ECE developing from the economic point of view (including island countries)</u>		
<u>Description:</u> As far as appropriate, the special interests of the member countries of the ECE developing from the economic point of view are to be taken into account in all projects appearing above under <u>Work Area 02.3</u> . In addition, when the occasion arises, the Committee will decide on subjects to be studied specifically in the interest of these member countries.		
<u>Method of work:</u> [Pending the decisions of the Committee].	cont.	

	Estimated duration (in years)	Estimated termination <u>year</u>
<u>WORK AREA 02.4: ENVIRONMENTAL PROBLEMS RELATING TO AGRICULTURE</u>		
02.4.1. <u>Environmental problems relating to agricultural mechanization */</u>		
02.4.1.1. The Role of Agricultural Mechanization in Preserving the Environment in Hilly and Mountainous Areas.	5	1981
02.4.1.2. Cleaning, Handling and Drying of Poultry Manure	4	1981
02.4.1.3. Modern Tillage Techniques and Implements	2	1982

Description: All studies listed under project 02.4.1. are selected by the FAO/ECE Working Party on Mechanization of Agriculture and approved by the Committee.

Method of work: Studies and reports are prepared by government rapporteurs (or teams of government rapporteurs) and discussed at the annual sessions of the Working Party. These reports are selected provisionally at the annual sessions for confirmation at the following session on the basis of annotated outlines and announced national contributions of material.

cont.

02.4.2. Water pollution from animal production

Description: As a follow-up to the seminar on pollution of waters by agriculture and forestry, held in 1973, a review of the techniques for the prevention of pollution originating from animal production.

Method of work: Seminar organized jointly with the ECE Committee on Water Problems.

2                      1981

02.4.3. Study on pollution problems in agriculture

Description: The Committee will decide on specific subjects under this project at a later date.

Method of work: [Pending the decisions of the Committee].

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\*/ See also project 02.3.2.



	Estimated duration (in years)	Estimated termination year
(e) Study of problems involved in statistics of the agricultural labour force and labour input; meeting to consider appropriate recommendations in the light of the results at the thirteenth International Conference of Labour Statisticians and of the second joint ECE/ILO Meeting on Manpower Statistics. Terms of reference and timing of the meeting to be considered later.	2	1983
(f) Study of methodological questions relating to farm book-keeping data and the possibility of their harmonization with other agricultural statistics; the need for, and timing of, a meeting on this subject to be considered later.	2	1983
(g) Review of the Programme for the 1990 World Census of Agriculture. Meeting to consider appropriate recommendations for Europe. Timing of the meeting to be considered later.	3	1984

03. - CHEMICALS

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<u>WORK AREA 03.1: MEDIUM AND LONG-TERM PROSPECTS</u>		
03.1.1 <u>Prospects for the development of carbo-chemistry in the ECE region</u>		
<u>Description:</u> An analysis of the prospects for the development of carbo-chemistry, and especially the utilization of coal as a raw material for the chemical industry will be made.		
<u>Method of work:</u> A task force developed the scope of the study and a questionnaire to be used for obtaining the statistical information. An <u>ad hoc</u> meeting will consider the first draft of the study in November 1980.	2	1981
03.1.2. <u>The chemical industry and its role in future food production</u>		
<u>Description:</u> The Committee will examine the impact of the chemical industry on world food production in such areas as fertilizers, insecticides, fungicides, animal foods, preserving agents, etc.		
<u>Method of work:</u> The Seminar on Technical and Economic Aspects of the Fertilizer Industry, held in Helsinki (Finland) in 1975, suggested a major study to be prepared by the secretariat with the assistance of government rapporteurs to be followed by a Seminar highlighting specific aspects of the study in order to formulate concrete recommendations.	2	1984
03.1.3 <u>Co-operation with the Senior Economic Advisers to the ECE Governments on the long-term economic prospects for the ECE Region</u>		
<u>Description:</u> The Committee will consider and comment on the over-all long-term economic prospects in its specific sector for the perspectives to be prepared by the Senior Economic Advisers to the ECE Governments.		
<u>Method of work:</u> The secretariat will prepare, as appropriate, the necessary documentation for the Committee's examination and will assist it in carrying out its work on this project.		

cont.

<u>Estimated</u> <u>duration</u> <u>(in years)</u>	<u>Estimated</u> <u>termination</u> <u>year</u>
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WORK AREA 03.2: CURRENT DEVELOPMENTS AND PROSPECTS  
INCLUDING INTERNATIONAL TRADE

03.2.1 Annual review of the chemical industry

Description: At its annual sessions the Committee will closely follow and analyse developments in the chemical industry. One major tool is the Annual Review of the Chemical Industry which will be considered annually.

Method of work: The Annual Review of the Chemical Industry will be prepared by the secretariat, based on statistical information covering all major chemical products/product areas transmitted by member Governments. The draft of the Annual Review will be circulated each year before the annual session of the Committee. Upon approval of the draft by the Committee, the secretariat will prepare and issue the final version.

cont.

03.2.2 Market trends and prospects for selected  
chemical products

Description: The Committee will put major emphasis on the examination of certain structural developments in the chemical industry. Of particular interest are changes occurring in various sectors of the industry, new developments to be observed in various product groups as well as in key indicators of the industry such as gross output, value added, investment, employment and trade.

Method of work: Every five years the secretariat will prepare - under the guidance of the Group of Experts on the Periodic Survey - a five-year survey, Market Trends and Prospects for Chemical Products, which will be based on the data for the Annual Review, and accompanied by a comprehensive general review of the situation in the chemical industry in the ECE region. The five-year survey will provide a basis for periodic examination by the Committee of trends and prospects of the chemical industry.

cont.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<p>03.2.3 <u>Trade in chemical products among ECE member countries</u></p> <p><u>Description:</u> The Committee will study trade, economic and technological developments in the chemical industry. Particular emphasis will be given to forms of international co-operation such as counterpurchases and buy-back arrangements and their importance in international trade will be analysed.</p> <p><u>Method of work:</u> An <u>ad hoc</u> Meeting will review the first draft of the study which will be prepared on the basis of statistical information collected by means of a questionnaire developed by the secretariat, based on the recommendations of the Group of Experts on the Periodic Survey and the bureau of the Chemical Industry Committee</p>	2	1982
<p><u>WORK AREA 03.3: SELECTED ECONOMIC AND TECHNOLOGICAL PROBLEMS</u></p>		
<p>03.3.1 <u>The influence of environmental protection measures on the development of pesticide production and consumption</u></p> <p><u>Description:</u> The Committee will analyse the present state of production and consumption of various types of pesticide, and the ways of using them that will best safeguard the environment.</p> <p><u>Method of work:</u> A second <u>ad hoc</u> Meeting scheduled to meet in November 1981 will review the first draft of the study.</p>	2	1982
<p>03.3.2 <u>Process automation in the chemical industry</u></p> <p><u>Description:</u> The chemical industry ranks among the most highly automated industries. The importance of automation is increasing, because of its potential for saving raw materials and energy. These and other aspects are to be studied.</p> <p><u>Method of work:</u> A Seminar will be held in the Netherlands from 27 April to 1 May 1981 at the invitation of the Government of the Netherlands. A Preparatory Meeting for this Seminar was held on 19-20 March 1980.</p>	1	1981



<u>Estimated duration (in years)</u>	<u>Estimated termination , year</u>
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03.3.3 Fertilizers required to meet soil, crop and other conditions of developing countries

Description: As a follow-up to the recommendations of the Helsinki Seminar on Technical and Economic Aspects of the Fertilizer Industry, the Committee will study specific aspects of the fertilizer industry.

Method of work: Will be decided when work is initiated.

3	1985
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WORK AREA 03.4: SELECTED ENVIRONMENTAL AND RESOURCE-  
SAVING PROBLEMS

03.4.1 The rational use of crude oil and its derivatives as raw material for the chemical industry

Description: The Committee will examine the rational use of crude oil and its derivatives as a raw material for the Chemical Industry.

Method of work: A Seminar has been tentatively scheduled for 1982 in Czechoslovakia. The objectives and scope of the Seminar will be determined by a Preparatory Meeting to be held in 1981.

1	1982
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03.4.2 Use as chemical raw materials of natural products (cellulose) or those from the sea

Description: Against the background of the rising cost of traditional chemical raw materials, the Committee will explore the possibilities of alternative sources.

Method of work: To be defined when work is initiated.

2	1983
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03.4.3 Use of chemical treatment for reducing atmospheric pollution by sulphur oxide and gaseous pollutants in general

Description: The Committee will continue to examine environmental problems related to the Chemical Industry, particularly in respect of air and water pollution and the use of water resources.

Method of work: To be determined when work is initiated possibly in co-operation with the Senior Advisers to ECE Governments on Environmental Problems.

2	1985
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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03.4.4 Noxious effects of specific chemical substances, such as polyvinylchloride

Description: Within the framework of the Committee's activities on the discharge of toxic substances specific case studies will be examined.

Method of work: To be determined when work is initiated.

2

1984

03.4.5 Current pollution standards in the fertilizer industry

Description: In accordance with the recommendations of the Seminar on Technical and Economic Aspects of the Fertilizer Industry, the Committee will consider and analyse current pollution standards effective in member countries, with a view to assisting Governments in their policy-making decisions.

Method of work: To be determined when work is initiated.

2

1983

WORK AREA 03.5: STATISTICS AND INFORMATION

03.5.1 Bulletin of imports and exports in chemical products

Description: The Committee will continue to promote the collection of statistics on a comparable basis regarding the chemical industry, its raw material sources and its markets.

Method of work: The secretariat will collect the requisite information from available United Nations statistical sources and publish an Annual Bulletin of Trade in Chemical Products, covering exports and imports of chemical products.

cont.

Estimated      Estimated  
duration      termination  
(in years)      year

03.5.2 Development of internationally comparable  
statistics and statistical classification

Description: The Committee will (a) advise the secretariat on the collection and preparation of statistics on the chemical industry, on a comparable basis for ECE countries and others; (b) give guidance to the secretariat on its annual updating of statistical information on the principal chemical products dealt with in the quinquennial survey; (c) examine methodological questions concerning concepts, definitions and methods of measurement; (d) guide the secretariat in developing a methodology of statistical analysis and forecasting of production, consumption and trade of chemical products; and (e) promote the collection of statistics on the chemical industry, its raw material sources and its markets.

Method of work: Work is pursued by the secretariat, as necessary, in co-operation with the secretariats of other bodies concerned. Ad hoc meetings on specific questions will be held jointly by the Committee and the Conference of European Statisticians as required.

cont.

03.5.3. Management, forecasting, planning and process  
automation in the chemical industry

Description: Analysis of the state of the art in the chemical industry of computer technologies in these fields.

Method of work: Analysis and survey of the papers presented at the three Chemical Industry Seminars: Forecasting, planning and programming (Warsaw, 1979); Management and management information systems (Varna, 1980), and Process automation (Hoordwijkerhout, Netherlands, 1981). The possible ways of implementing this will be considered by the next Committee session.

2

1983

04. - COAL

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 04.1: MEDIUM AND LONG-TERM PROSPECTS

04.1.1 Future role of coal in the energy economy of  
the region

Description: The Committee will examine the long-term prospects for coal in the context of the national and world energy economies, with a view to identifying and assessing emerging trends and problems affecting demand for and supplies of coal, related government policies, and options for intergovernmental co-operation within ECE.

04.1.1.1 Prospects of the coal industry in the ECE region cont.

04.1.1.2 Long-term prospects for coal beyond 1985 cont.

04.1.1.3 The role of coal in supplying the ECE region with energy and raw materials, in the light of new techniques of coal conversion and utilization 2 1982

Method of work: Project components 1 and 3 will be examined by the Committee once every two years or, if special aspects are to be singled out, by the appropriate subsidiary bodies, either through a study, i.e. the secretariat's report being prepared for project 3, or a symposium. Project component 2 will be handled by the Working Party on Coal Trade.

04.1.2 Co-operation with the Senior Economic Advisers  
to ECE Governments on the Over-all Economic  
Perspective for the ECE Region

Description: The Committee, particularly through its Working Party on Coal Trade, will take into account the ongoing activities of the Senior Economic Advisers to ECE Governments and make available to them the results of its work on the relevant projects (e.g. 04.1.1 and 04.2.2), for use in their work.

Method of work: The secretariat will prepare the documentation which the Committee will need for the study and assist the Committee in its work in accordance with decision G (XXXII). cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 04.2: CURRENT DEVELOPMENTS AND PROSPECTS,  
INCLUDING INTERNATIONAL TRADE

04.2.1 Review of the short-term fluctuations in demand  
for and supply of solid fuels

Description: The Committee will follow demand/supply fluctuations closely with a view to avoiding or attenuating imbalances.

04.2.1.1 Review of the coal market with particular reference to supplies of and demand for solid fuels

04.2.1.2 International trade in steam coal and coking coal

Method of work: Will be considered once a year by the Working Party on Coal Trade on the basis of forecasts supplied by Governments and consolidated by the secretariat.

cont.

04.2.2 Review of the coal-market situation and prospects  
in the light of government plans and policies

Description: The purpose of this project is to promote exchanges of views and information on national coal policies in the context of national energy policies; to assess the development of major underlying factors; to compare such policies; and to identify areas in which intensified intergovernmental co-operation might be mutually beneficial. The results of the Committee's consideration of these problems will be made available to the Senior Economic Advisers to ECE Governments (See 04.1.2 above).

cont.

Method of work: The Committee will examine annual surveys of the coal situation prepared by the secretariat on the basis of replies by Governments to a questionnaire. Reports of particular relevance to the activities of the Senior Economic Advisers to ECE Governments will be made available to them for information and use in their work.

cont.

04.2.3 Coal utilization in selected consumption sectors

Description: The purpose of this project is to improve understanding of short-term and medium-term consumption trends and to consider related policy measures.

04.2.3.1 Review of coal-market trends by consumption sectors

cont.

04.2.3.2 Use of steam coal in power stations

3 1983

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: To be implemented through studies or symposia under the auspices of the Working Party on Coal Trade, in close co-operation with the other Principal Subsidiary Bodies concerned.

WORK AREA 04.3: SELECTED ECONOMIC AND TECHNOLOGICAL PROBLEMS

04.3.1 Productivity in underground coal mining

Description: The purpose of this project is to enhance industrial co-operation and technology transfer in underground mining through exchanges of information and experience on advanced mining technologies. While this work is mainly concerned with technical matters, due account will be taken of related management problems, labour productivity, production costs, environmental implications, etc. Major problems considered will be:

04.3.1.1 Mechanization and automation

- |   |       |      |
|---|-------|------|
| (a) Consideration, in the light of examples of high-productivity mines and faces, of factors influencing labour productivity  | cont. |      |
| (b) Technical advances in the mechanization and automation of face work in steeply sloping seams (35-90°); choice of methods of working such seams according to geological, technical and economic conditions                       | 1     | 1981 |
| (c) Technical advances in the mechanization and automation of face work in thin (less than 1.2 m), gently sloping seams (0-35°); choice of methods of working such seams according to geological, technical and economic conditions | 1     | 1981 |
| (d) Exchange of experience in coal extraction under buildings and industrial plants   | 1     | 1981 |

04.3.1.2 Consideration of the organization of the enterprise and of work in mines with a view to increasing productivity	3	1983
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04.3.1.3 Concentration indices in the coal industries of the ECE region	cont.	
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Method of work: To be implemented by the Group of Experts on Productivity and Management Problems in the Coal Industry. As a rule, the work of this Group will be based on comprehensive country monographs prepared along agreed lines. After consideration, these monographs will be consolidated in a report highlighting common trends, differences and areas in which industrial co-operation could be reinforced.

Estimated duration (in years)	Estimated termination year
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04.3.2 Economic and technical problems linked with the further development of opencast mining

Description: The purpose of this project is to promote and develop exchanges of views and experience on opencast-mining technologies and related economic, environmental, operational and other problems with a view to speeding up the transfer of advanced technologies and identifying areas in which intergovernmental and industrial co-operation is feasible. The problems selected for consideration by the Committee are:

04.3.2.1 Use of heavy-duty equipment in opencast mines	2	1982
04.3.2.2 Concentration indices for opencast mines	2	1982
04.3.2.3 Development and operation of high-powered mineworking and transport equipment to operate in difficult technical and climatic conditions		
(a) Development of optimum technological flowsheets for line production at opencast workings	2	1982
(b) Development of cyclical/line production systems in opencast coal mining	2	1982
04.3.2.4 Problems concerning repair and operation of mine transport equipment. Technology and methods of mechanizing repair work	2	1982
04.3.2.5 Work safety and environmental protection (See also 04.4.1)		
Study on surfacing materials for opencast mines suited to land reclamation after the continuous use of powerful equipment and high-productivity stripping operations	2	1982
04.3.2.6 Better use of available coal resources and increased economy and efficiency of coal extraction techniques, as well as increased environmental protection in opencast coal mines (See also 04.4.1.3)	2	1982
04.3.2.7 Mechanization of ancillary processes in opencast coal mining		
(a) Development of forms of integrated mechanization in the case of conveyor transport	2	1982
(b) Mechanization of ancillary work in the case of rail transport	2	1982

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(c) Mechanization of ancillary work in the case of combined transport and transport by lorry	2	1982
04.3.2.8 Ways and means of dewatering opencast coal mines, particularly at great depth or in difficult mining conditions	2	1982
<p><u>Method of work:</u> The project will be implemented by the Group of Experts on Opencast Mines. Selected problems will be the subject of symposia organized in close co-operation with the other subsidiary bodies of the Committee which are concerned, and with any other Principal Subsidiary Body which may be interested in the subject.</p>		
<p>04.3.3 <u>International co-operation on research and development projects</u></p>		
<p><u>Description:</u> This project entails a review of the work of national mining research institutes. It aims at promoting exchanges of scientific, technical and economic information on topical research and development activities and at identifying areas of common interest suitable for joint co-operative research. The following project components will be considered:</p>		
04.3.3.1 Review of the activities of different countries' national mining research institutes and exchange of scientific, technical and economic information relating to the coal industry	cont.	
<p>04.3.3.2 Co-operation in research on selected projects</p>		
(a) Coal-getting systems not requiring the presence of men at the face at all times. Methods of working coal, not requiring the presence of men underground.	2	1982
(b) Use of mini-computers for the monitoring and control of all mining sub-systems as well as the collection of data for management control	2	1982
(c) Introduction of process control in opencast mines based on scientific principles and with the help of computers to improve the organization of technical maintenance and repairs of equipment to reduce idle time		
(d) Drivage, development and support of roadways and faces in deep mines - 1,000 metres and over - and consequently in more difficult mining, geological and atmospheric conditions	2	1982



	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(e) Improvement of reliability of opencast mining techniques in difficult geological, mining and climatic conditions	2	1982

Method of work: The project is to be implemented by the Meetings of Directors of National Mining Research Institutes, which are to be held every two years. It will include visits to national research and development institutes and study tours to coalfields. Selected problems will be the subject of symposia organized in close co-operation with the other subsidiary bodies of the Committee which are concerned, and with any other Principal Subsidiary Bodies which may be interested in the subject.

#### 04.3.4 New uses for coal

Description: Exchanges of information and views on this subject will aim at identifying new uses for coal, accelerating technical progress in coal preparation, conversion and use, facilitating technology transfer and initiating industrial co-operation in areas of common interest. While attention will be mainly focused on the technical aspects of coal preparation and use, consideration will also be given to related questions of economic viability, environmental acceptability and operational feasibility. The following project components will be considered:

04.3.4.1 Gasification and liquefaction of solid fuels	cont.	
04.3.4.2 Selected problems of coal preparation and use		
(a) Household use of coal and solid fuels manufactured from coal	1	1981
(b) Use of coal for long-distance heating of towns and cities	2	1982
(c) Current and future trends regarding the substitution of coal for other fuels	3	1983
(d) Production of coke from low-grade coking coals	3	1983

Method of work: The project will be implemented by the Group of Experts on the Utilization and Preparation of Solid Fuels. In accordance with the operative part of ECE decisions O (XXXIV) and I (XXXV), the Committee will continue "to consider the concept of the creation of the ECE Co-ordinating Centre on Coal Gasification and Liquefaction and its possible status". For the other project components, the Group of Experts will

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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undertake studies along agreed lines: country monographs will be prepared by government rapporteurs on the basis of an agreed outline. After consideration by the Group of Experts, these monographs will be consolidated in a general report reflecting common trends and identifying areas of potential industrial co-operation (See also project 04.1.1.3).

04.3.5 Harmonization of classifications, standards and certifications

Description: The purpose of this project is to facilitate international coal trade through the elaboration of agreements on classifications, standards and certifications.

04.3.5.1 Preparation of a new ECE classification of coals

3	1983
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Method of work: This project component is assigned to the Group of Experts on the Utilization and Preparation of Solid Fuels, which has convened a second ad hoc meeting for 24 to 26 November 1980.

WORK AREA 04.4: SELECTED ENVIRONMENTAL AND RESOURCE-SAVING PROBLEMS

04.4.1 Environmental problems resulting from coal-mining and ancillary activities

Description: Through exchanges of relevant information and experience, the Committee will endeavour to promote the environmental acceptability of coal production, conversion and use. The following problems will be studied:

04.4.1.1 Environmental problems resulting from coal industry activities

cont.

04.4.1.2 Desulphurization of coal

1	1981
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04.4.1.3 Environmental protection in opencast mines (See also 04.3.2.6)

04.4.1.4 Environmental problems caused by coal preparation plants

3	1983
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Current position and recent developments relating to the control of water pollution and ground damage caused by preparation plants.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Project component 2 will be dealt with when the results of the third seminar on desulphurization of fuels and combustion gases to be organized by the Senior Advisers to ECE Governments on Environmental Problems at Salzburg (Austria) in May 1981 are known. Project component 3 is related to project 04.3.2.6, to be implemented by the Group of Experts on Opencast Mines. Project component 4 will be carried out by the Group of Experts on Utilization and Preparation of Solid Fuels. The Committee will ensure close co-operation with other subsidiary bodies concerned and, in particular, with the Senior Advisers to ECE Governments on Environmental Problems.

04.4.2 Reduction of waste and increased efficiency in the mining, processing, transport and use of coal

Description: Through exchanges of information and experience, the Committee will seek to promote more careful utilization of scarce natural resources and to reduce the technical and economic constraints which have hitherto curbed efficiency. The following problems will be considered:

04.4.2.1 Symposium on the use of waste from coal working and preparation

dates to be fixed

04.4.2.2 Methods of firedamp elimination and the utilization of firedamp from mines as a source of energy

3 1983

Method of work: With regard to component 1, the Committee will wish to examine the possibilities for organizing such a symposium and fix the venue and dates. Project component 2 will be considered by the Group of Experts on Productivity and Management Problems in the Coal Industry. This study will be based on country monographs which will be consolidated in 1983 into a general report.

WORK AREA 04.5: INDUSTRIAL CO-OPERATION

04.5.1 Examination of possibilities for industrial co-operation

Description: With a view to furthering technology transfer and industrial co-operation, the Committee will examine the possibility of making its activities more operational, of undertaking joint research in suitable cases and of arranging for the exchange of scientific and technical personnel.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The project will be implemented by the Meeting of Directors of National Mining Research Institutes (See also 04.3.3). The Committee will establish, where needed, close co-operation with the Principal Subsidiary Bodies concerned with industrial co-operation.

cont.

04.5.2 Selected problems of industrial co-operation with member countries of the ECE which are developing from the economic point of view

Description: The considerable increase expected in coal production and use in ECE countries which are developing from the economic point of view necessitates measures to facilitate and accelerate the transfer of technology from the traditional coal countries to these other countries. The purpose of the present project is to accelerate this transfer.

Method of work: The Committee will take account, in the execution of its work programme, of the needs of countries with newly developed coal industries by participating, for example, in international events.

cont.

WORK AREA 04.6: STATISTICS AND INFORMATION

04.6.1 Periodic bulletins of coal statistics

Description: The Committee will continue to collect, publish and review internationally comparable information on production, consumption, exports, imports, stocks, manpower and productivity.

Method of work: The secretariat will collect the data issued by Governments and publish them in the Statistical Indicators of Short-Term Economic Changes in ECE Countries and in its Annual Bulletin, in conformity with the guidance provided by the Group of Experts on Coal Statistics and by the Conference of European Statisticians.

cont.

04.6.2 Development of internationally comparable statistics

Description: The purpose of this project is to meet the need for internationally comparable data on topics which are not yet covered, or cannot be covered, by the regular Bulletins on Coal Statistics. The following subjects will be studied:

04.6.2.1 Capital formation, production costs and investment intentions in the ECE coal industries, with particular reference to international comparability of accounting methods

cont.

	Estimated duration (in years)	Estimated termination year
04.6.2.2 Use of computers in solving the statistical problems of the ECE coal industries (this project component will deal with the storage, retrieval and processing of computerized statistical data, and will accordingly affect almost all other project components)	cont.	
04.6.2.3 Comparative analysis of working time at mechanized faces	3	1983
04.6.2.4 Preparation of consumption statistics broken down by sector, including statistics on the processing of coal into secondary energy sources	3	1983
04.6.2.5 Statistical definitions of the tonnages of coal analysed by method of transport	2	1982

Method of work: The project will be implemented by the Group of Experts on Coal Statistics in co-operation with the Conference of European Statisticians.

#### 04.6.3 Exchange of non-statistical information

Description: This project aims at facilitating contacts and access through the exchange of addresses, organizational charts, directories, bibliographies, work programmes, activity reports, etc., and organizing a study tour in connection with the annual session of the Committee.

04.6.3.1 Addresses of government authorities and major enterprises, associations and institutes working in the area of coal (See also 04.5.1.1)	cont.	
04.6.3.2 Reports transmitted by intergovernmental organizations on activities of interest to the Coal Committee	cont.	
04.6.3.3 List of documents concerning energy published by ECE	cont.	
04.6.3.4 Study tour of the Committee in the USSR	1	1981

Method of work: On the basis of a questionnaire prepared by the secretariat, the Committee will prepare and regularly update a list of addresses of institutions working on solid fuels. Representatives of the secretariats of the intergovernmental organizations will keep the Committee informed of their respective organizations' activities concerning coal. The secretariat will prepare annually a list of documents concerning energy published by ECE. Bibliographies will be annexed to substantive reports.

05. - ENVIRONMENT

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 05.1: AIR POLLUTION PROBLEMS

05.1.1 Transboundary air pollution

05.1.1.1 Implementation of the Resolution on Long-range  
Transboundary Air Pollution

Description: Implementation of the Resolution on Long-range Transboundary Air Pollution, adopted by the High-Level Meeting within the Framework of the ECE on the Protection of the Environment, held in Geneva in November 1979, and the provisional implementation of the Convention on Long-Range Transboundary Air Pollution.

Method of work: An Interim Executive Body has the mandate to be responsible for the implementation of the Resolution on Long-range Transboundary Air Pollution adopted by the High-level Meeting, and the provisional implementation of the Convention pending its entry into force. The Interim Executive Body is composed of the signatories to the Convention. All other member countries of ECE, as observers, as well as Governments and organizations participating in the work of the Commission under articles 8, 11, 12 and 13 of the Commission's terms of reference, are entitled to participate in meetings of the Interim Executive Body. Since the Interim Executive Body functions within the framework of the Senior Advisers to ECE Governments on Environmental Problems, the rules of procedure of the Commission apply, taking into account the provisions of Article 14 of the Convention. The Interim Executive Body co-operates with the Working Party on Air Pollution Problems and uses the Steering Body of the Co-operative Programme for monitoring and evaluation of the long-range transmission of air pollutants in Europe. The Senior Advisers on Environmental Problems decided that **decisions** taken by the Interim Executive Body will enter into force as soon as the Interim Executive Body has adopted them. However, the Senior Advisers on Environmental Problems will receive reports on the Interim Executive Body's activities and can comment on them and take appropriate decisions.

At its first session, held in October 1980, the Interim Executive Body adopted a work plan.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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05.1.1.2 Co-operative programme for monitoring and evaluation of the long-range transport of air pollutants

Description: The main objective for the co-operative programme is to provide Governments with information on the deposition and concentration of air pollutants, as well as on the quantity and significance of long-range transmission of pollutants and fluxes across boundaries. Information on the relative importance of local and distant sources resulting from such a programme will guide national authorities in setting appropriate local and regional permissible levels, taking into account international implications of these levels. The information on the deposition and concentration of air pollutants will be a basis for abatement strategies in the regions affected.

Method of work: The programme is being carried out under the auspices of the United Nations Economic Commission for Europe and forms part of the Global Environment Monitoring System of the United Nations Environment Programme. It is being implemented in co-operation with the World Meteorological Organization. The programme is supervised by a Steering Body made up of representatives from participating countries. Representatives of the United Nations Environment Programme and the World Meteorological Organization may participate in the meetings. The Steering Body is responsible for all matters related to the effective implementation of the programme and reports to the Senior Advisers through the Working Party on Air Pollution Problems.

cont.

05.1.1.3 Co-operation related to technologies for reducing emissions of sulphur compounds and other major air pollutants

Description: The Working Party on Air Pollution Problems, in co-operation with the Interim Executive Body for the Convention on Long-range Transboundary Air Pollution, will consider, on the basis of best available and economically feasible technology, possible sulphur compound control strategies, including costs, for all sources, including those of non-combustion sources, that have a significant effect on air pollution including long-range transboundary air pollution. Particular attention will be given to the consideration of possible sulphur control techniques for fossil fuels and in particular coal.

	Estimated duration (in years)	Estimated termination year
<p><u>Method of work:</u> The Working Party at its eleventh session will, in particular, consider the results of the Third Seminar on the Desulphurization of Fuels and Combustion Gases and elaborate proposals for consideration by the Interim Executive Body at its second session.</p>	2	1982
<p>05.1.2      <u>Selected problems of air pollution</u></p>		
<p>05.1.2.1    Development of guidelines for the control of emissions from the inorganic chemical industry</p>		
<p><u>Description:</u> As a follow-up to the Seminar on Air Pollution Problems of the Inorganic Chemical Industry, the Working Party will develop guidelines for the control of emissions from the inorganic chemical industry, giving particular attention to the inorganic fertilizers soda, chlorine and inorganic pigment industries.</p>		
<p><u>Method of work:</u> A task force under the leadership of the Netherlands will carry out the work.</p>	3	1983
<p>05.1.2.2    Problems of odours</p>		
<p><u>Description:</u> Elaboration of a basic report on the problem of odours which will include an inventory of problems arising in different countries (e.g. definitions, measurements, control techniques, costs, etc.).</p>		
<p><u>Method of work:</u> A task force, with Poland as lead country, has elaborated a draft report on the state of work on odour problems. An informal meeting for discussing the final version of the report will be held in 1981. On the basis of the work of the task force, a Seminar on the Problems of Odours might be organized.</p>	6	1982
<p>05.1.2.3    Desulphurization of fuels and combustion gases</p>		
<p><u>Description:</u> Review of recent developments in desulphurization technology.</p>		
<p><u>Method of work:</u> At the invitation of the Government of Austria, a third seminar on the desulphurization of fuels and combustion gases will be held in Salzburg from 18 to 22 May 1981. Steps will be taken to ensure the co-operation of the Coal Committee. In connection with the seminar, a study tour will be organized in the Federal Republic of Germany.</p>	2	1981



Estimated duration (in years)	Estimated termination year
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05.1.2.4 Co-operation with the European Regional Office of the World Health Organization (WHO) on the preparation of a manual of air pollutants from industrial sources

Description: Under the auspices of WHO/EURO and the Working Party on Air Pollution Problems, a manual will be prepared covering the following pollutants: particulates, odours, SO<sub>2</sub> and sulphates, NO<sub>x</sub>, heavy metals, fluorides, hydrocarbons, oxydants and chlorines.

Method of work: A draft of the manual is being elaborated by the Association of Engineers of the Federal Republic of Germany (Verein Deutscher Ingenieure (VDI)). The draft will be completed and submitted for consideration by WHO experts and the Working Party on Air Pollution Problems in 1981.

5

1981

WORK AREA: 05.2: RESOURCES AND WASTE PROBLEMS

05.2.1 Low- and Non-waste Technology and Re-utilization and Recycling of Wastes

Description: The Declaration on Low- and Non-Waste Technology and Re-utilization and Recycling of wastes, adopted by the High-level Meeting within the Framework of the ECE on the Protection of the Environment, recommends international co-operative activities within the framework of the ECE related, inter alia, to research and development, exchange of scientific and technical information, international waste exchanges as well as organization of international post-graduate courses on low- and non-waste technology and re-utilization and recycling of wastes. These activities are being carried out under the auspices of the Working Party on Low- and Non-waste Technology and Re-utilization and Recycling of Wastes.

Method of work: Details are given under each project component.

05.2.1.1 Preparation of a compendium on low- and non-waste technologies

cont.

Description: With the support of UNEP, the project involves further development of the current compilation of a compendium on low- and non-waste technology with a view to setting up an international data bank for information on low- and non-waste technology and re-utilization and recycling of wastes, while fully respecting the need to protect proprietary information.

	Estimated duration (in years)	Estimated termination year
<p><u>Method of work:</u> The compilation is being carried out through periodic meetings of National Focal Points convened under the auspices of the Working Party.</p>	4	1982
<p>05.2.1.2 Promotion of the development of methodologies for comparison and evaluation of various technologies</p>		
<p><u>Description:</u> The Senior Advisers on Environmental Problems will promote activities related to the development of methodologies for the comparison and evaluation of various technologies with a view to elaborating a manual on this topic.</p>		
<p><u>Method of work:</u> This project is being carried out by a task force, with the German Democratic Republic as lead country.</p>	3	1982
<p>05.2.1.3 Incentives for the promotion of low- and non-waste technology and re-utilization and recycling of wastes</p>		
<p><u>Description:</u> Information will be exchanged on national experience concerning incentives for the promotion of low- and non-waste technology and re-utilization and recycling of wastes, with a view to listing incentives for the development of low- and non-waste technology, analysing practical experience in the use of incentives, investigating the social and economic impact of various incentives, initiation of studies on different types of incentives based on legislation, regulations and standards, and economic measures, etc.</p>		
<p><u>Method of work:</u> The secretariat will prepare a report for consideration by the Working Party at its second session. The report, based on information supplied by Governments according to approved guidelines, will survey the present use of incentives in ECE countries, including measures of a compulsory nature, to promote re-utilization and recycling of wastes and to encourage the adoption of low- and non-waste technologies.</p>	3	1982
<p>05.2.1.4 International waste exchanges</p>		
<p><u>Description:</u> Information will be collected and analysed on the economic, technical, environmental and social impact of existing waste exchanges. An investigation will be carried out on possibilities of expanding the network of subregional waste exchanges and co-operation between national and subregional exchanges.</p>		

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The secretariat will prepare a report for the second session of the Working Party on national experience in the operation of waste exchanges, based on information to be supplied by Governments according to approved guidelines. International experience will also be taken into account, as appropriate.

3	1982
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05.2.1.5 Recycling, re-use and recovery of municipal and industrial solid wastes

Description: The Senior Advisers will examine the policies and strategies which could be applied to encourage the effective recycling, re-use and recovery of municipal and industrial solid wastes.

Method of work: [To be examined by the Working Party on Low- and Non-waste Technology and Re-utilization and Recycling of Wastes at its second session.]

3	1982
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05.2.1.6 Control of toxic wastes

Description: Consideration of policy measures for handling, control and discharge of toxic wastes. Work will be carried out concerning the main sources of toxic wastes, as well as the ways in which amounts of such wastes could be significantly reduced through the use, inter alia, of modified technology or techniques of recycling.

Method of work: The secretariat will prepare reports for the annual sessions of the Working Party, summarizing the current activities of international organizations in the field of toxic wastes. Special attention will be given to the reduction of toxic wastes through the application of low- and non-waste technology and re-utilization and recycling.

cont.

05.2.1.7 International post-graduate training courses on low-waste technology

Description: In accordance with the Declaration adopted at the High-level Meeting in 1979, international post-graduate courses on low- and non-waste technology and re-utilization and recycling of wastes will be organized. The courses should be, as far as possible, self-supporting or financed by existing mechanisms.

Method of work: At the invitation of the Government of Hungary, a training course will be organized in Hungary during 1982.

2	1982
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Estimated duration (in years)	Estimated termination year
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05.2.1.8 Seminar on Low-waste Technology

Description: The Working Party will organize, possibly jointly with UNEP, a seminar designed to upgrade the knowledge and competence of those already engaged in industry in the field of low- and non-waste technology and re-utilization and recycling of wastes.

Method of work: At the first session of the Working Party, the Government of the USSR offered to act as host for this seminar and to present detailed proposals for consideration at the second session of the Working Party. The secretariat will prepare, for the second session, a summary list of recent international seminars and training courses in the field.

3

1983

05.2.2 Environment and energy

Description: The Senior Advisers on Environmental Problems will consider environmental problems related to energy and will in particular contribute to the over-all programme in the field of general energy problems.

Method of work: [To be decided by the Senior Advisers at their tenth session.]

cont.

05.2.3 Protection of flora, fauna and their habitats in the ECE region

Description: The Senior Advisers will ensure or contribute to the conservation, within the ECE region, of (a) migratory species; (b) endangered species of plants and animals; (c) the habitats of migratory and endangered species.

Method of work: The work is being carried out through a number of project components, listed separately below.

cont.

05.2.3.1 International measures taken or which could be taken for protecting flora, fauna and their habitats

Description: The Senior Advisers will (a) evaluate measures, especially legal instruments, taken or under preparation at the international level for the protection of flora, fauna and their habitats; and (b) recommend to member Governments the extent to which it would be desirable and feasible to extend the application of existing instruments and programmes and, if lacunae are identified, to consider new instruments or programmes.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: This project is carried out by a Task Force with the Netherlands as lead country. The Task Force will prepare a report evaluating measures, especially legal instruments, taken or under preparation at the international level for the protection of flora, fauna and their habitats, for consideration by the Senior Advisers at their tenth session in 1982.

4	1984
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05.2.3.2 Study on the possible promotion of a network of representative ecological areas

Description: The Senior Advisers will carry out a study on possible ECE activities for promoting a network of representative ecological areas, taking into account, inter alia, the UNESCO biosphere reserve programme and the network of biogenetic reserves of the Council of Europe.

Method of work: The study is being undertaken by a Task Force under the leadership of Sweden.

2	1981
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**WORK AREA 05.3: POLICY AND MANAGEMENT PROBLEMS**

05.3.1 Environmental policies and strategies in ECE countries

Description: The aim of this project is to (a) keep the Senior Advisers informed about environmental policy development in the ECE region and make contributions to UNEP "State of the Environment" reports; (b) permit them to select priority issues for policy discussion at their annual session; and (c) serve as a basis for identification of new projects.

Method of work: Based on agreed guidelines, the member Governments will on a continuous basis exchange information on changes in their environmental policies and strategies as well as information on national priority issues. Periodic reviews of environmental policies and strategies in the ECE region will be prepared in future at approximately five-year intervals and these reviews could become regional contributions from ECE to the comprehensive UNEP "State of the Environment" reports. The next over-all review should take place in 1985 as a contribution to the UNEP 1987 global review. The Senior Advisers will continue the practice of in-depth discussion of a specific environmental topic. At their tenth session, they will discuss the environmental aspects of policies regarding the conservation and rational utilization of natural resources. The secretariat will prepare a background paper for discussion, on the basis of information received from member Governments (according to guidelines prepared by the secretariat in consultation with the Senior Advisers).

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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05.3.2 Environmental impact assessment

Description: On the basis of the relevant recommendations on specific measures related to environmental impact assessment as set out in the Final Act of the Conference on Security and Co-operation in Europe, and taking into account the recommendations of the Seminar on Environmental Impact Assessment (Villach, Austria, 1979), the Senior Advisers will study "procedures and relevant experience relating to the activities of Governments in developing the capabilities of their countries to predict adequately environmental consequences of economic activities and technological development" in particular in connection with transboundary problems.

Method of work: (a) The secretariat will (i) invite ECE Governments to submit information on: procedural and institutional aspects of integrating environmental impact assessment procedures into existing planning and decision making processes; general methodological approaches and techniques; and relevant experiences and practices in the application of environmental impact assessment procedures; (ii) convene prior to the tenth session of the Senior Advisers an ad hoc meeting to draft detailed suggestions for a programme of work taking into account discussions which took place at the ninth session. (b) The Senior Advisers will agree at their tenth session on the description, method of implementation and time-table of the suggested programme of work so developed.

1

1982

05.3.3 System of environmental statistics

Description: The Senior Advisers, together with the Conference of European Statisticians, will develop a system of environmental statistics through (a) elaboration of concepts, definitions and classifications; (b) study of statistical methodology; and (c) consideration of statistical requirements for environmental policies.

Method of work: [Proposals for further action made by the Conference of European Statisticians will be submitted to the Senior Advisers at their tenth session.]

cont.

	Estimated duration (in years)	Estimated termination year
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05.3.4 Indicators for the evaluation of the quality of the environment

Description: The Senior Advisers will study the concepts and practical applications of indicators of environmental quality, in order to develop a system of such indicators.

Method of work: The activities are being carried out by a task force, with Yugoslavia as the lead country.

5	1982
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05.3.5 Economic assessment of environmental damage

Description: A common methodology for the assessment of environmental damage is being developed.

Method of work: The activity will continue to be carried out by a Task Force led by the USSR along the lines indicated in document ENV/R.124, paragraph 10.

5	1982
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06. - ELECTRIC POWER

WORK AREA 06.1: MEDIUM-TERM AND LONG-TERM PROSPECTS

06.1.1. Medium-term and long-term prospects for the electric power industry in the ECE region

Estimated duration (in years)	Estimated termination year
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Description: The Committee will examine from time to time the medium-term and long-term prospects of the electric power industry in the context of national and regional energy economies. It will study major emerging problems and trends affecting demand and supply in electricity, analyse and compare related policies and identify possibilities of international co-operation among ECE countries.

Method of work: The work will be carried out by the Group of Experts on Problems of Planning and Operating Large Power Systems, in co-operation with the Committee's other groups of experts. A seminar will be held in London in October 1981.

cont.

06.1.5. Co-operation with the Senior Economic Advisers to ECE Governments on the over-all economic prospects for the ECE region up to 1990

Description: The Committee will consider and comment on the over-all economic prospects as prepared by the Senior Economic Advisers to ECE Governments and will transmit the results of its work in this field to the Advisers.

Method of work: The secretariat will collaborate in this matter, in accordance with decision G (XXXIII)

cont.

WORK AREA 06.2: CURRENT DEVELOPMENTS

06.2.1. Review of the electric power situation in the ECE region

Description: The Committee will undertake periodic studies on various aspects of the electric power situation in the ECE region.

Method of work: The secretariat will collect the requisite information from Governments and publish it in the periodic reports referred to under 06.2.1.

cont.

06.2.1.1. Annual review of the electric power situation in the ECE region



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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06.2.1.2. Triennial review of the electric power situation in the ECE region and its prospects

06.2.1.3. Quadrennial review of the state of rural electrification in the ECE region

06.2.3. Selected statistical problems

Description: The Committee will, at its annual sessions, examine questions relating to the content and presentation of the periodic bulletins of electric power statistics, as well as the definitions and the units employed.

cont.

06.2.3.1. Method of accounting to be used, in global energy balances, for primary energy converted directly into electric power

Description: The purpose of this project is to determine the most suitable coefficients for the conversion of primary energy from various sources into electric power.

cont.

06.2.4. Preparation of a terminology suited to the needs of the Committee on Electric Power

Description: The Committee will prepare a terminology in English, French and Russian containing the most important terms used in the field of electric power production and transmission, including terms used in electric power statistics.

Method of work: The terminology will be prepared by the secretariat on the basis of the terminologies published by the following international organizations: CMEA, IEC, UCPTL, UNIFEDE and VEC.

2

1981

06.2.5. Problems raised by international standardization in the field of electric power

Description: The Committee and its subsidiary bodies will, at their sessions, examine subjects for which international standards should be formulated.

Method of work: The subjects selected will be transmitted to the International Electrotechnical Commission (IEC) through the Meeting of Government Officials Responsible for Standardization Policies.

cont.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<u>WORK AREA 06.3: SELECTED TECHNOLOGICAL AND ECONOMIC PROBLEMS</u>		
06.3.1. <u>Selected problems of conventional and nuclear thermal power stations</u>		
<u>Description:</u> The purpose of this project is to promote technology transfers through exchanges of information and experience on selected problems of conventional and nuclear thermal power stations.		
<u>Method of work:</u> The project will be implemented by the Group of Experts on Electric Power Stations as indicated under each project component below:		
	5	1983
06.3.1.1(a). Experience gained in the operation of units having a rated capacity of 200 MW (e) or above at thermal power stations		
<u>Method of work:</u> Countries will transmit to the secretariat national information for the period 1979-1981 which will be examined as working documents by the Group of Experts on Electric Power Stations and will serve as a basis for the compilation of a consolidated report by the government experts from Poland.		
	4	1984
06.3.1.1(b). Experience gained in the operation of units having a rated capacity of 200 MW (e) or above at nuclear power stations		
<u>Method of work:</u> Countries will transmit to the secretariat national information which will be examined as working documents by the Group of Experts on Electric Power Stations and will serve as a basis for the compilation of a consolidated report by the government experts from the Federal Republic of Germany.		
	3	1983
06.3.1.1(c). Problems concerning the design of high-capacity conventional and nuclear thermal power stations in seismic areas		
<u>Method of work:</u> The Group of Experts on Electric Power Stations will examine a report to be prepared by government rapporteurs from the USSR, in co-operation with government rapporteurs from Czechoslovakia, on the basis of the experience of these two countries. These reports will serve as a model for the preparation of general information that will be useful for the compilation of a consolidated report.		
	3	1982

	Estimated duration (in years)	Estimated termination year
06.3.1.2. Problems concerning the design, construction and operation of high-capacity thermal power units which use different types of fuel, are highly manoeuvrable and can be used to cover the half-peak of the load curve		
<u>Method of work:</u> The Group of Experts on Electric Power Stations will examine a report to be prepared by government rapporteurs from the USSR, which will serve as a model for the preparation of general information that will be useful for the compilation of a consolidated report.	4	1983
06.3.1.3. Principles adopted in different countries for the definition of operational data in electric power and heat production		
<u>Method of work:</u> The government experts from Romania will compile a national report to be examined by the Group of Experts on Electric Power as an introductory document for the implementation of the project.	2	1982
06.3.1.4. Recommended methods for improving the availability of large units at conventional and nuclear thermal power stations		
<u>Method of work:</u> The Group of Experts on Electric Power Stations will examine a report to be prepared by government rapporteurs from Belgium on the basis of information transmitted by ECE countries.	4	1981
06.3.1.5. Problems concerning the design, equipment and operation of installations for the extraction and removal of ash on a dry basis at thermal power stations using solid fuels		
<u>Method of work:</u> The Group of Experts on Electric Power Stations will examine a consolidated report to be prepared by government rapporteurs from Czechoslovakia.		
06.3.1.6. Seminar on the Extraction, Removal and Use of Ash from Coal-fired Power Stations		
<u>Method of work:</u> The Committee on Electric Power will organize a seminar at Geneva in 1982 in the event that no invitation is received from Poland or another country by 15 March 1981.		1982

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
06.3.2. <u>Selected problems of hydroelectric power stations</u>		
<b><u>Description:</u></b> The purpose of the project is to promote technology transfers through exchanges of information and experience on selected problems of hydroelectric power stations.		
<b><u>Method of work:</u></b> The project will be implemented by the Group of Experts	3	1981
06.3.2.1.     Development of the potential of hydraulic installations, and in particular the kinetic potential of pumped-storage installations		
<b><u>Description:</u></b> The purpose of the project is to study the possibilities of developing the potential of hydraulic installations, and in particular the kinetic potential of pumped-storage installations, with a view to further consideration of their integration into the productive systems.		
<b><u>Method of work:</u></b> At its thirteenth session, the Group of Experts on Problems of Planning and Operating Large Power Systems will hear a statement and suggestions to be submitted to it by the representative of Italy on the basis of information transmitted by the Governments concerned with regard to the final version of document EP/GE.2/R.43, which will be circulated by the secretariat with an explanatory note. At this session, it will decide on the action to be taken on this study.	2	1981

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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06.3.2.2. Evaluation of Europe's hydroelectric potential

Method of work: An informal meeting of experts from France, Greece, Italy, Norway, Spain, the USSR and UNIPEDE will prepare a questionnaire so that the necessary information can be compiled in order to evaluate the hydroelectric potential of the countries of the region.

3	1983
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06.3.3.2. Technical and economic problems involved in integrating large-capacity power stations into electric power systems

Description: The purpose of this project is to study the influence of increasing unit size on electric power generating systems.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems and the Group of Experts on Electric Power Stations will consider a study prepared by an informal meeting of government rapporteurs from Belgium, Czechoslovakia, France, the Federal Republic of Germany, Hungary and Turkey, at which the work of the two Groups of Experts was co-ordinated at the national level.

4	1982
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06.3.4. Selected problems of distribution of electric power in rural areas

Description: The purpose of this project is to promote technology transfers through an exchange of information and experience on selected problems of electricity distribution in rural areas.

Method of work: The project will be implemented by the Group of Experts on Distribution and Rural Electrification as indicated under each project component below.

4	1982
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	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
06.3.4.1. <u>Increased use of electricity in the rural sector and its effect on the development of distribution networks</u>		
<u>Method of work:</u> A report will be prepared jointly by the government rapporteurs from Poland and the USSR on the basis of information transmitted by the ECE countries.	3	1982
06.3.4.2. <u>Distribution by underground and overhead cable networks in rural areas</u>		
<u>Method of work:</u> A report will be prepared jointly by the government rapporteurs from Hungary and the USSR on the basis of information transmitted by the ECE countries.	2	1982
06.3.5. <u>Study of modern remote control systems already developed or likely to be brought into service in rural networks in the near future</u>		
<u>Description:</u> The purpose of this project is to promote, through exchanges of information and experience, the development of technical progress in the operation of rural distribution networks.		
<u>Method of work:</u> A report will be prepared by the government experts from Spain on the basis of their national experience. The report will then be considered by the Group of Experts on Distribution and Rural Electrification so that it can be supplemented by the experience of the countries of the ECE region.	2	1982
06.3.6. <u>Use of residual heat from electric power stations for glasshouse heating: chief developments and technical solutions</u>		
<u>Method of work:</u> The project has been begun by the government experts from the USSR and a report on the subject was submitted for consideration at the twenty-second session of the Group of Experts on Distribution and Rural Electrification. Countries interested will send their information to the secretariat, which will publish the information received in the form of working papers for the twenty-third session of the Group of Experts.	2	1982
06.3.7. <u>Use of heat pumps in the rural sector</u>		
06.3.7.1. <u>Possible uses of heat pumps on farms</u>		
<u>Method of work:</u> A report has been prepared jointly by the government rapporteurs from the Federal Republic of Germany and Switzerland. (This project may be extended on the basis of information which might be transmitted by countries with relevant experience.)	4	1982

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
06.3.7.2. Study of the applications of heat pumps in the industrial, tertiary and domestic sectors		
<u>Method of work:</u> The Group of Experts on Distribution and Rural Electrification will consider a report prepared by the government experts from France on the basis of information to be transmitted by the ECE countries.	2	1982
06.3.7.3. <u>Reduction of starting-current intensities of heat pumps in rural systems</u>		
<u>Method of work:</u> The Group of Experts on Distribution and Rural Electrification will consider a report prepared by the government experts from Switzerland on the basis of information to be transmitted by the ECE countries.	2	1982
06.3.8. <u>Electric power supplies for island regions and for areas that are isolated or far from the national power system of the country in question</u>		
<u>Description:</u> The particular purpose of this project is to facilitate and accelerate technology transfers in this field from countries with the most experience to the island European countries and, in particular, to those which are developing from the economic point of view.		
<u>Method of work:</u> The Committee on Electric Power might decide to organize a seminar on the subject to which delegations from the countries which are developing from the economic point of view would be invited.	4	1984
06.3.9. <u>Continuous treatment of condensates and feed water in thermal power stations</u>		
<u>Method of work:</u> The government experts from Belgium will prepare a questionnaire to obtain the information needed for the preparation of a consolidated report on this subject.	3	1982
06.3.10. <u>Methods for protecting condensers against the formation of deposits from cooling water in electric power stations</u>		
<u>Method of work:</u> The Group of Experts on Electric Power Stations will consider a national report to be prepared by the government experts from the German Democratic Republic which will serve as an introductory document for the implementation of the project.	4	1984
<u>WORK AREA 06.4: INTERCONNECTION OF ELECTRIC POWER TRANSMISSION SYSTEMS</u>		
<u>Description:</u> The Committee will formulate economic criteria and methods for determining the choice of solutions to problems arising in the interconnection of electric power transmission systems in Europe.		

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<p><u>Method of work:</u> Documents EP/GE.2/R.36 and EP/GE.2/R.32 will be taken into account in the reports prepared by the government rapporteurs on the basis of information transmitted by member countries.</p>	5	1983
<p>06.4.1. <u>Interconnection systems for the electric power transmission networks of the countries of eastern and western Europe</u></p>		
<p><u>Description:</u> The purpose of this project is to study the possibilities of interconnection of the electric power systems of the countries of western and eastern Europe.</p>		
<p><u>Method of work:</u> The Group of Experts on Problems of Planning and Operating Large Power Systems will consider at its next session working documents which will be prepared by the experts from the USSR on the basis of information already supplied by countries in accordance with the questionnaire reproduced in the annex to document EP/GE.2/R.32, and of other information</p>	4	1984
<p>06.4.5. <u>Interconnection of the electric power transmission systems of the Balkan countries</u></p>		
<p><u>Description:</u> The purpose of this project is to facilitate the interconnection of the electric power transmission systems of the Balkan countries.</p>		
<p><u>Method of work:</u> The Group of Experts on Problems of Planning and Operating Large Power Systems and the secretariat will be available to the Co-ordinating Committee set up by the Governments of Bulgaria, Greece, Romania, Turkey and Yugoslavia to deal with problems arising in the development of interconnections among these countries.</p>		
<p>The Group of Experts on Problems of Planning and Operating Large Power Systems will be kept informed of the progress of work on the matter and, in particular, of the results of the session of the Co-ordinating Committee.</p>	3	1982



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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06.4.6. Reliability criteria for the design and testing of electric power production and transmission systems with reference to the analysis of reserve capacity problems

Description: The purpose of this project is to study the way in which reserve capacity influences the reliability of an electric power generating system.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems will consider a report prepared by government rapporteurs from the Netherlands and Turkey on the basis of any necessary technical and practical considerations.

4	1982
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06.4.7. Problems connected with the management of the operating régimes of energy systems

Description: The purpose of this project is to devise methods, within the framework of the connection of power systems, to deal with such problems as dispatching, remote control, automation, protection equipment, systems stability, etc. The main trends in these fields will be identified.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems will consider a report prepared by government rapporteurs from the Byelorussian SSR for discussion in 1981.

3	1981
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06.4.8. Map of high-voltage electric power networks

Description: The purpose of the map is to facilitate bilateral and multilateral negotiations between ECE Governments on the interconnection of their networks.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems will consider the results of an informal meeting, planned for 30 May, with representatives of the Central Dispatching Office (Prague), UCPTE and UNIPEDL to study the harmonization of the various existing maps.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination years</u>
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06.4.9. Comparison of models of planning and operating electric power systems

Description: Exchange of information at the international level on the models used in the planning and operation of electric power systems.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems will consider a report to be prepared by an informal meeting, possibly consisting of representatives of France, Hungary, Italy and other interested countries, on the means required to carry out this exchange of information in a precise and useful way.

1	1981
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06.4.10. Consideration of the prospects for international electric power exchanges arising from river-régime differences between neighbouring countries

Description: Exchange of information on the present and future prospects, arising from the diversity of river régimes, of effecting such power exchanges and thereby improving interconnection services.

Method of work: The secretariat, on the basis of information transmitted by UCPTE and interested Governments, will prepare a summary note on this topic.

1	1981
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06.4.11. Present and future means of energy storage in the electricity production system

Description: The purpose of this project is to make a preliminary study of the means of energy storage which might in future be of interest in planning and operating electric power systems.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems will consider at its next session a preliminary report submitted by the delegation of France.

2	1982
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 06.5: PROBLEMS OF IMPROVING EFFICIENCY

06.5.1. Rationalization of consumer use of electricity

06.5.1.1. Effect of measures for rationalizing energy use on the development of electricity consumption in rural areas

Method of work: A report will be prepared by the government rapporteurs from Romania on the basis of information transmitted by the ECE countries.

4	1982
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06.5.1.2. Use of standard 20 kV networks to supply low-voltage electric power to rural areas where individual dwellings are too widely dispersed

Method of work: A report will be prepared by the government rapporteurs from Hungary on the basis of their national experience.

2	1982
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06.5.1.3. Rational use of electricity on selected farms and in low-voltage rural distribution networks

Method of work: A study, to be prepared by the government experts from Belgium will be carried out by the Group of Experts on Distribution and Rural Electrification.

4	1982
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06.5.1.4. Measures adopted to reduce electric power losses in distribution networks, and the results obtained

Method of work: A report will be prepared by the government rapporteurs from Romania on the basis of information transmitted by the ECE countries.

4	1982
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06.5.2. Measures designed to save fuel in heat and electric-power production

Description: The purpose of these projects is to identify the possibilities and limitations of measures intended to save fossil fuels in electric-power and heat production, and at the consumer level.

Method of work: These projects will be implemented by the Group of Experts on Electric Power Stations and other subsidiary bodies of the Committee in the manner indicated under each project component below:

3	1982
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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06.5.4. Utilization of geothermal energy for electric power production and space heating

Description: The purpose of this project is to review geothermal resources and the techniques used for the production of electricity and of heat of geothermal origin.

Method of work: The Group of Experts on Electric Power Stations will consider a report to be prepared by government rapporteurs from Italy. A seminar might be organized on this subject after 1982 in co-operation with other interested subsidiary bodies of ECE.

3	1983
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06.5.5. Impact of the introduction of summer time on the more economical use of electric power

Description: The purpose of this project is to promote greater savings in the use of electric power through exchanges of data, information and experience.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems will consider a report prepared by government rapporteurs from Poland on the basis of information transmitted by Governments.

Work in  
progress

06.5.6. Methods used to evaluate and measure losses in electric power transmission and distribution systems and ways of reducing such losses

Description: The purpose of this project is to determine the amount of losses in networks and to study economic means of reducing such losses.

Method of work: The Group of Experts on Problems of Planning and Operating Large Power Systems will consider a questionnaire and, at a later stage, a report to be prepared on the basis, inter alia, of the replies to this questionnaire; both texts will be prepared by government rapporteurs from the German Democratic Republic.

3	1981
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<u>Estimated duration (in years)</u>	<u>Estimated Termination year</u>
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06.6.1.5. Environmental aspects of the closed-circuit cooling systems of thermal power stations

Method of work: The Group of Experts on the Relationship between Electricity and the Environment will consider a report to be prepared by government rapporteurs from the Federal Republic of Germany on the basis of information transmitted by ECE Governments. Contact will be established with the Committee on Water Problems.

3	1982
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06.6.1.6. Comparative study of electric space-heating systems

Method of work: The Group of Experts on the Relationship between Electricity and the Environment will consider papers on electric heating prepared by government experts from France, Sweden, the United Kingdom and other ECE countries. The Committee on Electric Power will examine the possibility of associating other ECE subsidiary bodies concerned in the preparation of comparable studies for other sources of energy, with a view to preparing a consolidated report.

3	1982
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06.6.1.7. Liquid discharges from thermal power stations (excluding thermal discharges): chemical effluents and cooling-tower blowdown

Method of work: The Group of Experts on the Relationship between Electricity and the Environment has considered and approved for general distribution a report prepared by government rapporteurs from the Federal Republic of Germany on the basis of information transmitted by ECE Governments.

1	1981
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06.6.1.8. Noise emission by thermal power stations

Method of work: The Group of Experts on the Relationship between Electricity and the Environment will consider a report to be prepared by government rapporteurs from the United Kingdom on the basis of information transmitted by the government experts from Belgium, France, Poland, Romania and the United Kingdom.

3	1982
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	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
06.6.1.9. Possibilities of using residual heat in the cooling water of electric power stations		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment will consider a report to be prepared by government rapporteurs from France on the basis of information transmitted by the Governments of Belgium, the Byelorussian SSR, the German Democratic Republic, Italy, Sweden and the United Kingdom. Contact will be established with the Group of Experts on Distribution and Rural Electrification.	3	1982
06.6.1.10. Prospects of using non-polluting water treatment techniques in thermal power stations; technological and economic effectiveness		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment will consider a report to be prepared by government rapporteurs from Spain on the basis of information transmitted by ECE Governments.	3	1982
06.6.1.11. Combustion of fuel oil with a high sulphur and vanadium content; technological solutions for the prevention of air pollution and the corrosion of heat exchangers		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment will consider a report to be prepared by the government experts from Belgium, following an informal meeting with the government experts from France, on the basis of information transmitted by the Governments of the German Democratic Republic, Romania and, if possible, other ECE countries.	3	1982



	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
06.6.2. <u>Integration of electricity production, transmission and distribution installations into the environment</u>		
06.6.2.1. Visual amenities of electric power stations		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment will consider a public information booklet to be prepared by government rapporteurs from Czechoslovakia, Finland and the United Kingdom	3	1981
06.6.2.2. Nuclear power and the environment		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment will consider a public information booklet to be prepared by government rapporteurs from France, Spain and the USSR in co-operation with IAEA.	3	1982
06.6.2.3. Integration of electricity distribution installations into the environment		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment and the Group of Experts on Distribution and Rural Electrification have approved for general distribution a report prepared by the government experts from Finland.	1	1981
06.6.2.4. Contribution of electric power and its development to the improvement of the environment		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment will consider a booklet to be prepared by the government rapporteurs from France.	2	1982
06.6.4. <u>Problems of land use and land use planning posed by the establishment of large power stations and electric power transmission lines (Commission resolution II (XXXIII))</u>		
<u>Description:</u> The purpose of this project is to determine the intensity of land use in electric power systems and its development.		
<u>Method of work:</u> The Group of Experts on the Relationship between Electricity and the Environment will consider a report to be prepared by the government rapporteurs from France on the basis of information transmitted by ECE Governments.	3	1982

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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06.6.5. International co-operation in the field  
of research into problems raised by the  
relationship between electricity and the  
environment

Method of work: The Group of Experts on the Relationship between Electricity and the Environment will publish information on research in its area of competence, to be transmitted by the government experts from the various ECE countries. The Committee will decide the action to be taken on that documentation, taking into account similar activities being undertaken by the other expert groups.

cont.

07. - GAS

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 07.1: MEDIUM- AND LONG-TERM PROSPECTS

07.1.1. Natural gas markets, natural gas availabilities and import possibilities and the future role of gas in the energy requirements of the ECE region (in the period up to 2000)

Description: The Committee will periodically examine problems linked to natural gas markets, natural gas availabilities and import possibilities and the future role of gas in the energy requirements of the ECE region (in the period 1980-2000), in order to identify specific issues for intergovernmental co-operation. Quantitative data and estimates on various possibilities and position of gas versus other forms of energy in the over-all energy balances will be studied to provide background information for policy decisions of the gas industry in future.

Method of work: Periodically, at three or four years' intervals, symposia will be held on the subject. An Informal Meeting will be held in the Netherlands in the Autumn of 1981 to prepare the sub-topics to be dealt with at the Symposium on Tendencies in Development of the Gas Industry and Gas Markets in the ECE Region for the period up to 2000. At the Informal Meeting to be held, experts from France, Federal Republic of Germany and the Netherlands and of other countries interested will take part. The Vice-Chairman of the Group of Experts on Gas Statistics and Forecasting Problems will also be invited to take part in the Informal Meeting. The sub-topics for the Symposium drafted and proposals regarding its date will be considered by the Committee on Gas at its next session. The Committee will also consider in which country the Symposium will be held.

cont.

07.1.2. Co-operation with the other Principal Subsidiary Bodies of the Commission in their work having a bearing on the evolution of the gas industry in the future

Description: The Committee will co-operate with the other Principal Subsidiary Bodies in their studies involving the evolution of the gas industry in the future.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The Committee will co-operate with the Senior Advisers to ECE Governments on Energy as closely as possible in their work falling within the competence of the Committee on Gas. Also, regarding co-operation with the Senior Economic Advisers to ECE Governments, pursuant to Commission decision G (XXXII), the Committee will make available to them information on the long-term trends in the gas industry having an impact on economic development.

cont.

WORK AREA 07.2: CURRENT DEVELOPMENTS AND PROSPECTS,  
INCLUDING TRADE

07.2.1. Analysis of the gas situation and prospects for  
gas markets in the ECE region

Description: At each annual session, the Committee will examine the gas situation in the ECE region, and its prospects. This exchange of views on annual (and, periodically, triennial) development of gas markets, factors affecting gas marketing, indigenous supplies, imports/exports, forecast of gas demand for five years ahead, and other points of interest, will permit Governments to share experience in management of their gas industries. Due attention will also be paid to developments of LPG markets and related activities.

Method of work: The discussion will be based on comprehensive, annual or triennial statements by Governments, prepared along common lines and issued in advance of each session. Also a secretariat paper, based mainly on statistical data received from Governments, will be considered. Whenever necessary, in-depth discussions will be had on specific issues based on specialized papers prepared by government rapporteurs, with the help of the secretariat. The Committee will convene a "Symposium on the LPG Situation in the ECE Region during 1980-1990" in Dublin (Ireland) from 30 September to 2 October 1981. LPG problems and related issues will be identified by the Symposium for further work and consideration by the Committee. At its next session, the Committee will incorporate the LPG problems identified into its programme of work.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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07.2.2. Developments and prospects for intraregional trade in gas

Description: The Committee, at its annual sessions, will consider problems relating to developments and prospects for intraregional trade in gas in the ECE region, including trade opportunities in LPG, so as to promote such trade. Also, it will examine problems relating to possible large-scale natural gas import/export projects of common interest.

Method of work: The Committee will consider these problems in connection with its analysis of the gas situation and gas markets. As regards work on large-scale projects of common interest of natural gas import/export, the secretariat will inform the Committee of related developments.

cont.

WORK AREA 07.3: SELECTED ECONOMIC AND TECHNOLOGICAL PROBLEMS

07.3.1. Economic and technical aspects of the use of gas in various consumption sectors

Description: The Committee will examine economic and technical aspects of the use of gas in various consumption sectors in order to identify problems requiring in-depth study, exchange of information and experience.

Method of work: At its next session, the Committee will decide if there is a new topic to study under this item.

cont.

07.3.2. The use of LNG installations for peak-shaving purposes and for serving remote areas

Description: The Committee will examine economic and technical problems in the use of LNG installations for peak-shaving purposes and for serving remote areas with a view to exchanging experience and promoting a wider use of this technique.

Method of work: The Group of Experts on the Transport and Storage of Gas will continue to consider the hazard assessment of LNG supply and storage and undertake a comparative study between "LNG peak shaving", "LPG peak shaving" and "Pipeline pack peak shaving". For consideration at its twelfth session, Governments will forward any information available on these problems.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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07.3.3. Revision of the Map of European Gas Transmission Networks and the International Map of Natural Gas Fields in Europe

Description: The Committee will proceed with the revision of:  
(a) the Map of European Gas Transmission Networks, and  
(b) the International Map of Natural Gas Fields in Europe.

Method of work: Regarding (a), the revision of the Map of European Gas Transmission Networks will be carried out with the help of the Government of Hungary on the basis of updated information as at 31 December 1978 supplied by ECE Governments. The Group of Experts on the Transport and Storage of Gas will examine and approve the revised Map before its final publication. The revision of the International Map of Natural Gas Fields in Europe, sub-topic (b), will take place in three years' time. The Government of the Federal Republic of Germany will do the revision work on the basis of updated information, as at the end of December 1978, supplied by ECE Governments. The Explanatory Note will also be revised in due time.

3

1981

07.3.4. Problems in management of international gas pipelines

Description: The Committee will study the basic principles involved in management of international gas pipelines systems.

Method of work: On the basis of information available, the Czechoslovak rapporteur will prepare a draft consolidated report for the consideration of the Group at its next session.

3

1981

07.3.5. Development of underground gas storage facilities

Description: The Committee will study various aspects of underground storage of gas and related problems.

Method of work: The Group of Experts on the Transport and Storage of Gas will continue work on the topic. The rapporteur from the Federal Republic of Germany will prepare a paper on the construction and exploitation of underground storage of gas in salt caves in that country. The rapporteur from the German Democratic Republic will prepare a paper "The Problems of the Transport and Storage of Gas Containing Hydrogen". Both of these papers will be

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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considered at the next session of the Group. The Group will also consider the preparation of a consolidated report on the basis of information available and will define new problems which might be studied by the Group in future.

cont.

07.3.6. Harmonization of codes of good practice, technical rules and regulations and standards of gas equipment and appliances

Description The Committee will consider the possibility of encouraging harmonization of codes of good practice, technical rules and regulations and standards of gas equipment and appliances. The purpose is to alleviate technical obstacles to international trade in gas equipment, appliances and assist Governments in their regulations work in the field of the gas industry through international co-operation.

Method of work: The International Gas Union and, if possible, Marcogaz, will report to the Committee once every two years on related work in this field carried out by other organizations.

cont.

07.3.7. Maintenance problems in gas transport systems

Description: The Committee will examine the above and exchange information and experience on maintenance practices and new techniques. Some specific problems will be selected for detailed study.

Method of work: The Group of Experts on the Transport and Storage of Gas will consider, at its next session, a consolidated report on the technical and economic aspects of the maintenance of gas transport systems to be prepared by the USSR rapporteurs and the German Democratic Republic, and replies to the questionnaire on external corrosion protection methods for pipelines and their cost effectiveness, prepared by the Federal Republic of Germany.

3

1982

07.3.8. Selected research and development problems

Description: The Committee will select, for detailed examination, research and development problems in order to arrange an exchange of information in the ECE countries.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The secretariat will write to the secretariats of IGU, EEC and CITEA, asking which research problems they esteem deserve the attention of the Committee on Gas and require special attention and call for co-operation. The Group of Experts on the Transport and Storage of Gas and the Group of Experts on the Use and Distribution of Gas will consider R and D topics requiring intensification of exchanging of information and experience with a view to bringing them to the attention of the Committee at its next session.

cont.

07.3.8.1. Research problems in the field of use and distribution of gas

Description: Research and development problems in the use and distribution of gas will be reviewed with a view to encouraging an exchange of information and experience between member countries. At present, the Group of Experts on the Use and Distribution of Gas considers (a) problems in distribution and uses regarding the addition of hydrogen containing gas to natural gas; and (b) problems of ensuring the compatibility of natural gases of different characteristics and from different sources. Problems relating to the use of plastic pipes in distribution systems will also be considered.

Method of work: At its next session, the Group of Experts will consider government contributions on project component (a). As regards project component (b), at its next session the Group will consider information received from Governments on their faced or foreseen interchangeability problems. Also, the Group of Experts on the Use and Distribution of Gas at its next session will consider whether and how to take up remaking a survey on the use of plastic pipes in distribution systems.

cont.

07.3.8.2. Research problems in the field of transport and storage of gas

Description: Current technological developments and related R and D activities will be reviewed by the Committee on Gas to exchange experience and promote co-operation in transport. At present it considers the economic aspects of the transportation of cooled gas of a temperature of  $-50^{\circ}\text{C}$  to  $-70^{\circ}\text{C}$  by pipeline.

Method of work: The secretariat will continue to collect information for consideration by the Group of Experts on the Transport and Storage of Gas at its session to be held in 2-3 years.



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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07.3.8.3. Offshore technology and sea pipelines for  
the transport of gas

Description: Current technological developments and related R and D projects will be reviewed by the Committee on Gas to exchange experience and promote co-operation in this field.

Method of work: The Group of Experts on the Transport and Storage of Gas decided to strengthen co-operation in this field and approved, in principle, the draft programme of work on the problem of offshore technology and sea pipelines, prepared by the USSR. At its next session, the Group will continue consideration of the national guidelines on the construction of sea pipelines and will examine, if the study on the elaboration of international guidelines standards on the construction of sea pipelines should be undertaken. A "Seminar on offshore natural gas technology, production and processing, transport and reception" might be hosted by the United States of America Government in two years' time.

4	1984
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07.3.8.4. Geological and geophysical methods of  
prospecting for gas

Description: The Committee will review methods of exploration for natural gas with a view to exchanging information and experience between member countries.

Method of work: A Seminar on Exploration for Gas Fields in the ECE Region (Geology and Geophysics) will be held in Hanover, Federal Republic of Germany from 18-23 May 1981.

3	1981
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07.3.9. Gasification of coal and various raw materials  
production and use of substitute natural gas

Description: The Committee will provide opportunities for an exchange of information and experience in the production and use of substitute natural gas, in order to follow developments in the field of solid and/or liquid fuel gasification and relevant installations constructed or put into operation for making SNG.

Method of work: At its next session, the Group of Experts on the Use and Distribution of Gas will consider GAS/R.70, "Criteria of coal gas with regard to its use in natural gas systems". This document will be brought to the attention of the Coal Committee, and of its appropriate Group of Experts, so that consideration or preoccupations of the gas industry regarding the use of coal gas in natural gas systems be taken into account in the future work of the Coal Committee in the field of coal gasification.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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07.3.10. Natural gas transport over long distances  
 by pipelines of large diameter

Description: The Committee will study the economic and technical aspects of the transportation of huge amounts of gas by pipelines of large diameter for very long distances.

Method of work: At its next session, the Group will consider a consolidated report, to be prepared by the USSR rapporteur. It will consider any other information received and take a decision on further work.

2	1982
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07.3.11. Exploration and exploitation of natural gas  
 resources

Description: The Committee will select problems for detailed study regarding the exploration and exploitation of natural gas resources. At present, the Group of Experts on Natural Gas Resources is considering:  
 (a) collection and publication of statistical data on the gas recovery factor; (b) collection and examination of statistical data on natural gas reserves; (c) collection of statistical information on natural gas reserves in non-ECE countries; (d) preparation of a draft classification of wells.

The Group will also consider a study entitled "Exploration for natural gas in offshore areas".

Method of work: Regarding project component (a), the secretariat will continue to collect new statistical data on the gas recovery factor for consideration by the Group of Experts at its next session. The Group will also decide, at that time, whether a consolidated report on the subject should be prepared.

2	1981
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(b) The Group will collect statistical data on estimates of natural gas reserves in ECE countries up to 31 December 1979 and consider them at its annual session.

cont.

(c) Data on reserves in non-ECE countries received will also be considered by the Group.

2	1981
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(d) The Government rapporteur from Austria will prepare, for the next session of the Group, a combined classification of wells.

2	1981
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The Group of Experts, at its next session, will consider the possibility of initiating studies on "Exploration for natural gas in offshore areas", "Methods of assessment of undiscovered natural gas resources" and "Methods of exploration of natural gas fields located at a depth of 6-7 thousand metres", taking into account the outcome of the Seminar to be held in Hanover in May 1981.

2	1981
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 07.4: ENVIRONMENTAL PROBLEMS

07.4.1. The gas industry and environment

Description: The Committee will examine the relationship between the gas industry and environment, in order to draw the attention of Governments to the merits of gas as a tool to combat air pollution and improve the environment in general. Negative aspects of the gas industry from the environmental point of view, if any, will also be examined.

Method of work: The secretariat will write to Governments asking for their comments on the theme for the second symposium envisaged on the gas industry and environment, which is reflected in document GAS/R.73, "Report of the Informal Meeting on the Gas Industry and the Environment", and on the opportunity of convening it, and on the advisability of organizing the symposium, jointly with the Committees on Coal and Electric Power and the Senior Advisers to ECE Governments on Environmental Problems. Comments and suggestions received from Governments will be considered by the Committee at its next session.

WORK AREA 07.5: EFFICIENCY AND CONSERVATION

07.5.1. Studying the efficiency and effectiveness of the use of gas in various branches of industry (or of the economy)

Description: The Committee will study and exchange information and experience regarding the efficiency and effectiveness problems in various uses of gas. In connection with project components: (a) the Group of Experts collects the addresses and information about governmental and other organizations serving as information centres for advising clients on energy saving/rational use, and regarding other project components it studies; (b) effective use of gas; (c) influence of cost of gas supply on the rational use of gas in the various sectors of the economy; (d) development of efficient equipment and appliances using gas; and, (e) measures of gas conservation and study of results.

Method of work: As regards project component (a), the Group of Experts, at its next session, will continue work in this field and will issue a list of the addresses of governmental and other organizations serving as information centres for advising clients on energy saving/rational uses, to enable these organizations to contact each other and exchange information in their fields of activity.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Regarding project component (b), it will consider further replies to the questionnaire on "Impact of the use of natural gas on the reduction of specific energy consumption in different sectors of the economy". (Second report on the "Rational use of gas in various sectors of the economy, and relevant conservation ethics" is completed and will be given general release.)

3	1982
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Regarding project component (c), the Government rapporteur from the Netherlands will draft a consolidated paper by taking into account all the information or comments received. The consolidated paper will be considered by the Group of Experts at its next session, with a view to giving it general release.

2	1981
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Regarding project component (d): (i) the study on "recuperation of heat in combustion products of industrial installations using natural gas" is completed and will be given general release; (ii) the Government rapporteur from the Netherlands will prepare a questionnaire on "efficiency of gas utilizing appliances" which will be circulated to collect information required to initiate the study on gas appliance efficiency improvement. Information on work in this field, carried out by other governmental and non-governmental international organizations will also be considered by the Group of Experts at its next session; (iii) a study will be initiated on heat pumps running on gas. A rapporteur will be designated by the Federal Republic of Germany on the subject, who will draft a paper on developments in his country in this field and will suggest the collection of information by means of a questionnaire so as to progress with the study.

3	1983
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Regarding project component (e), in connection with "October 1979", the special month for action on energy conservation, countries are asked to report on (i) special efforts made for the conservation of gas; and (ii) results of those efforts, if possible the reduction in energy consumption. Written communications received from Governments will be considered.

cont.

07.5.2. Exploitation of natural gas, stimulation and enhanced recovery techniques

Description: The Committee will study (i) relationship between the production technology and recovery factor in gas reservoirs, and (ii) stimulation and enhanced recovery techniques in natural gas production, and organize an exchange of information on relevant recent

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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technologies, e.g. use of acidizing, hydraulic pressure, atomic explosions to improve porosity or to open cracks so as to stimulate gas flow from wells to increase gas recovery. This project also includes exploration and exploitation of natural gas in carbonate rocks to be studied by the Group of Experts on Natural Gas Resources. Also, the Committee will study and exchange information on problems related to the extent of associated gas waste in oil production operations.

Method of work: The Group of Experts on Natural Gas Resources will continue the study of the relationship between the production technology and recovery factor in gas reservoirs and will discuss, at its next session, a consolidated report prepared by the USSR Government rapporteur. At its sixth session, the Group will also consider information received by the secretariat on experience in the field of the development of gas deposits in carbonate rocks, estimation of reserves and methods of increasing the recovery factor.

2

1981

#### WORK AREA 07.6: STATISTICS AND INFORMATION

##### 07.6.1. Bulletin of Gas Statistics

Description: The Committee, through the Group of Experts on Gas Statistics and Forecasting Problems and in co-operation with the Conference of European Statisticians where necessary, will examine the questions related to the contents of the Annual Bulletin of Gas Statistics and relevant data in the Annual Bulletin of General Energy Statistics, published regularly, as well as the definitions and units employed therein.

Method of work: The Group of Experts on Gas Statistics and Forecasting Problems will review and examine contents of the Annual Bulletin of Gas Statistics in order to assist the Conference of European Statisticians in collecting internationally comparable statistical data.

cont.

##### 07.6.2. Development and improvement of statistical information

Description: The Committee, together with the Conference of European Statisticians where necessary, will select problems for detailed examination in order to develop and improve international statistics of the gas industry.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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At present, the Group of Experts on Gas Statistics and Forecasting Problems considers: (a) questions arising from the gradual transition to the international system of units (the SI Units) in many countries; (b) the international comparison of ratios within the gas industry; (c) harmonization of questionnaires (circulated by various international bodies in the field of gas statistics), especially definitions used and their presentation; (d) additional data to be collected on a regular basis for inclusion in the gas bulletins (survey of the additional data requirements in countries and by various international bodies); (e) collection of data on underground gas storage and LNG peak-shaving facilities; (f) collection of data on gas transport mains classified according to their internal diameters. The Group of Experts will study the use of computers in the short-, medium- and long-term forecasting.

Method of work: The Group of Experts on Gas Statistics and Forecasting Problems will meet once every two years and will study project components 07.6.2. (a), (b), (c), (d), (e) and (f).

07.6.3. Information on investments in the gas industry including financing

Description: The Committee will study investments in the gas industry and their financing possibilities, with a view to exchanging information and identifying the problem areas in financing investments requirements.

Method of work: The Committee will periodically collect data on investments and financing requirements of the gas industry. The secretariat will circulate a revised questionnaire for the collection of 1980 investments data. The Chairman of the Ad Hoc Meeting on Investments in the Gas Industry and their Financing Possibilities (Federal Republic of Germany) will prepare a consolidated report using replies received from Governments by 1 September 1981, which will be issued for consideration by the Committee at its twenty-eighth session.

cont.

08. - HOUSING, BUILDING AND PLANNING

Estimated duration (in years)	Estimated termination year
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WORK AREA 08.1: INTEGRATED SETTLEMENTS POLICIES AND STRATEGIES

08.1.1. Current trends and policies in the field of human settlements

Description: The Committee will, at each plenary session, exchange views on current trends and policies in the field of human settlements. The session will be followed by a study tour in one of the member countries. These discussions and study tours will enable Governments to draw on each other's experience in formulating and modifying their short- and medium-term policies.

Method of work: Every second year (even years), the discussion will be based on country monographs prepared in accordance with an agreed outline and circulated directly among Governments in advance of the session. The study tours will last for one week and will be organized in accordance with guidelines adopted by the Committee.

cont.

08.1.2. Long-term perspectives for human settlements development in the ECE region

Description: The Committee will examine long-term perspectives for human settlements development in the ECE region with a view to establishing a frame of reference for its studies on long-term policies and to assisting the Committee in reviewing its programme of work and priorities. The project also aims at providing a sectoral input to the envisaged further analysis of the over-all long-term economic prospects, which is being carried out in accordance with Commission Decision C (XXXII).

Method of work: The project will be implemented by rapporteurs and selected experts, in co-operation with the secretariat, within the framework of the activities of the Group of Experts on Urban and Regional Research. The results of several studies and seminars relating to long-term perspectives and forecasting, as well as relevant statistics and research results, will be drawn upon. The Group of Experts will organize a series of in-depth discussions, informal consultations and research colloquia in preparation for a seminar.

Estimated duration ( <u>in years</u> )	Estimated termination <u>year</u>
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08.1.3. Survey of the human settlements situation  
in the ECE region

Description: The Committee will regularly review and assess the state of the human settlements situation in the ECE region. The purpose of this project is to take stock of past achievements and to provide a basis for the discussion of current and long-term trends and policies in the ECE region. The results of the review will constitute a regional input to the global survey of the human settlements situation, to be undertaken by the Commission on Human Settlements.

Method of work: The human settlements situation will be described in quantitative and qualitative terms, as appropriate, and commented upon in country monographs, to be prepared every five years on the basis of an agreed outline. The monographs will be analysed and synthesized by the secretariat in the form of a report for publication. Co-operation will be maintained with the United Nations Centre for Human Settlements (UNCHS) in the implementation of this project.

cont.

08.1.4. Land-use planning and policies for human  
settlements

Description: The Committee will exchange information and experiences on land-use planning and policies with a view to improving tools and instruments at the disposal of Governments for ensuring an adequate supply and development of the land needed for settlement purposes. The Committee will further participate in studies on land-use problems undertaken in a comprehensive and multi-sectoral manner, in accordance with Commission decision H (XXXIII).

Method of work: National monographs were prepared and analysed in preparation for a seminar, held in 1978. A synthesis report based on the seminar documentation and debates has been prepared by a rapporteur. Proposals for further work will be elaborated by the Working Party on Urban and Regional Planning for consideration by the Committee in 1981 or 1982.



Estimated duration (in years)	Estimated termination year
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08.1.5. Housing, building and planning statistics

Description: The Committee, together with the Conference of European Statisticians, will develop and improve international statistics in the field of housing, building and planning. The aim of the work is to define concepts and definitions, to reach agreement on tabulations for the presentation of the statistics, to improve and develop the Annual Bulletin of Housing and Building Statistics for Europe and to define the content and presentation of ad hoc statistical publications in the field of human settlements.

Method of work: The project will be pursued through co-operation between rapporteurs and the secretariat. Ad hoc meetings will be organized, as required, jointly by the Committee and the Conference of European Statisticians. The secretariat will collect statistical information and publish the Annual Bulletin of Housing and Building Statistics for Europe.

cont.

08.1.6. Impact of energy considerations on human settlements policies

Description: The Committee will examine the impact of energy considerations on the planning, development and management of human settlements. The purpose of the project is to assist Governments in drawing up medium and long-term human settlements policies in which due account is taken of the anticipated cost and availability of different forms of energy.

Method of work: Following a secretariat study, a seminar and in-depth discussions at the Committee's annual sessions, information on energy aspects of human settlements policies will be reported on every second year in a special part of the country monographs on current trends and policies in the field of human settlements (project 08.1.1). A register of designated pilot and demonstration projects aimed at achieving energy efficiency in human settlements will be established, in co-operation with UNEP and UNCHS. A study on long-term prospects for energy use in human settlements in the ECE region will be carried out in co-operation with the Senior Advisers to ECE Governments on Energy. A Second Seminar on Energy and Human Settlements will be held. Inter-secretariat meetings will be convened, as required.

cont.

Estimated duration (in years)	Estimated termination year
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08.1.7. Urban renewal and modernization policies

Description: The Committee will exchange views and experiences on problems and policies related to the quality of human settlements. The focus of this activity will be on the continuing process of the renovation and rehabilitation of buildings, the rehabilitation and revitalization of neighbourhoods, the adaptation of the city to new economic, social and environmental requirements, and its role in the over-all system of settlements. The aim of the project is to assist Governments in formulating policies in this area of increasing concern to all ECE countries.

Method of work: Following a seminar on the improvement of housing, two symposia on urban renewal and the quality of life and discussions at the Fourth Conference on Urban and Regional Research, an in-depth discussion on urban renewal and modernization policies will be held at the Committee session in 1981. The methods of pursuing further work in this area will then be decided.

3

1982

08.1.8. Human Settlements problems in the countries of southern Europe

Description: The Committee will undertake and promote studies of human settlements problems of particular concern to the countries of southern Europe. This project will, inter alia, provide an opportunity for adapting the results and experiences emerging from other Committee projects to the conditions of ECE countries which are developing from an economic point of view.

Method of work: This project is being pursued by the Group of Experts on Housing, Building and Planning Problems and Policies in the Countries of southern Europe which will meet periodically in one of the participating countries. At each meeting, an in-depth discussion on a selected topic will be held, based on an issue paper and country monographs and case studies based thereon.

cont.

08.1.9. Human settlements planning and development in the Arctic

Description: The Committee will examine problems of life under conditions of cold with special reference to physical planning aspects, infrastructure development and construction techniques. This project constitutes a contribution to the follow-up to the Conference on Security and Co-operation in Europe; the results are expected to be of assistance to Governments in the formulation of appropriate policies for the planning and construction of settlements in regions with severe, cold climates.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: On the basis of an issue paper and national monographs prepared by interested countries, a symposium was held at Gothab (Greenland) in August 1978. An analytical report based on the documentation and debates of the symposium has been prepared by the secretariat. National monographs on "Technical solutions for water supply, heat supply and sewage in the Arctic" will be prepared.

3

1982

OS.1.10. Citizen participation in the planning, implementation and management of human settlements

Description: The Committee will examine methods and means of strengthening citizen participation in the planning, construction, improvement and management of human settlements. This project will assist Governments in the implementation of the recommendation for national action relating to citizen participation, adopted at the United Nations Conference on Human Settlements, held in Vancouver in 1976.

Method of work: A seminar will be held in Yugoslavia in October 1980. The documentation for the seminar will comprise a background paper, prepared by a general rapporteur in co-operation with the secretariat, response papers prepared by Governments and international organizations and introductory reports prepared by rapporteurs.

1

1980

OS.1.11. Research policies in the field of human settlements

Description: The Committee will exchange views and experiences on problems and policies relating to the programming, organization, co-ordination, financing, management and monitoring of research in the field of human settlements. The aim of this project is to assist Governments in formulating research policies and to promote economy and efficiency in national research activities by making proper use of research results of other countries. The project will also assist the Committee in monitoring international co-operation both within and outside ECE on research relating to housing, building and planning.

Method of work: Following a seminar on building research policies, initiated by the Working Party on Building, and discussions on programming and management of urban and regional research within the framework of the Group of Experts on Urban and Regional Research, the secretariat will prepare an issue paper for discussion at the Committee's 1981 session.

2

1981



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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08.2.5. Energy issues in urban and regional planning

Description: The Committee will exchange experience on issues of energy as they relate to urban and regional planning. The project will focus on the extent to which energy considerations could, and should, be taken into account in urban and regional planning in order to lead to a more rational utilization of the limited resource - energy - and, at the same time, to enhance the quality of life. The project is expected to be of direct assistance to Governments and public authorities in their policy-making on the national, regional and local levels.

Method of work: Following a seminar on the impact of energy considerations on the planning and development of human settlements, several informal consultations and a research colloquium, the Working Party on Urban and Regional Planning will undertake a project in this field. As a first step, an analytical study of the problems and related policies will be carried out on the basis of material contained in the national monographs prepared by Governments for the forty-first session of the Committee in 1980. The study will also indicate suitable specific topics for further elaboration by the Working Party and will serve as a basis for an in-depth discussion at the Working Party's thirteenth session in 1981.

3

1982

08.2.6. System of settlements

Description: The Committee will exchange experience on regional and national issues pertaining to systems of settlements, in particular focusing on the inter-relationship of settlements and the economic and social forces governing such interrelationships, as well as the administrative consequences. The aim of the project is to assist Governments in developing regional development policies directed towards reducing economic regional disparities and to adapt the settlements system to contemporary economic, social and administrative requirements.

Method of work: Following discussions at the Fourth ECE Conference on Urban and Regional Research and the examination of a project proposal by the Working Party on Urban and Regional Planning, a joint in-depth discussion by the Working Party on Urban and Regional Planning and the Group of Experts on Urban and Regional Research will be held at the annual sessions of the two bodies in spring 1981. The in-depth discussion will identify topics for further elaboration

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
by researchers and policy-makers and thus start the preparatory work for the Fifth ECE Conference on Urban and Regional Research, to be held in 1984, which will be devoted primarily to this subject.	5	1984

08.2.7. Integrated planning

Description: The Committee will study and develop a methodology of integrated physical, socio-economic and environmental planning of human settlements. This project is expected to be of direct assistance to Governments and public authorities in physical planning on the national, regional and local levels.

Method of work: Following a seminar on Integrated Physical, Socio-Economic and Environmental Planning, the Working Party on Urban and Regional Planning will pursue further work, concentrating on problems and policies of implementing integrated planning on the local and regional levels. Two countries will prepare example case studies, one on a project concerning major infrastructure and one on an industrial development project; national responses to these case studies will be analysed in preparation for a seminar to be held in 1982.

3 1982

WORK AREA 08.3: HOUSING POLICIES

08.3.1. Review of current trends and policies

Description: The Committee will promote an exchange of views on current trends and policies in the field of housing with a view both to keeping Governments abreast of major events in housing and to offering indications for the orientation of the development of the programme of work.

Method of work: Drawing on relevant information presented in the country monographs on current trends and problems in the field of human settlements (project 08.1.1), an exchange of views will be conducted at each session of the Working Party on Housing. The discussion will concentrate on a few issues of particular interest. A brief summary will be prepared jointly by two rapporteurs and appended to the report of the session.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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08.3.2. Housing needs of special groups of the population

Description: The Committee will study the housing needs of special groups of the population, such as the elderly, the handicapped, single people and small families. The housing needs of migrant workers may also be dealt with. It is expected that this project will lead to the formulation of general recommendations which would help Governments in orienting their policy in this field.

Method of work: Following a colloquium on housing for the elderly, held in 1965, the Working Party on Housing organized two ad hoc meetings and prepared a seminar on special housing needs, held in 1976. The Group of Experts on Urban and Regional Research has initiated preparations for a research colloquium on housing for the elderly and the handicapped, to be held in 1981, as an ECE contribution to the United Nations Year for the Handicapped.

2	1981
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08.3.3. Financing of housing

Description: The Committee will promote an exchange of views on problems facing Governments in the field of financing of housing as well as experience gained by Governments with regard to related policies and measures, taking into account newly-arising social and economic conditions.

Method of work: After a review of four pilot studies prepared by rapporteurs, the Working Party on Housing has agreed on issues for further study. Problem-oriented papers will be prepared by rapporteurs on each of these issues.

2	1981
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08.3.4. Housing management problems

Description: The Committee will analyse various aspects of the management of housing and assess their relationship to government housing policy. An exchange of information on current problems, techniques and experience will be undertaken with a view to improving the organizational, financial, economic and social efficiency of government policies in this field.

Method of work: The scope, content and form of the project have been defined through exploratory papers by two rapporteurs and an informal consultation convened by the Working Party on Housing. Interested

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Governments will prepare monographs on the basis of an outline paper and a model monograph. At an ad hoc meeting, to be held in Geneva in November 1981, issues facing Governments will be discussed using, as a basis, an analysis of the monographs to be prepared by a rapporteur.

2

1981

#### 08.3.5. Housing forecasting and programming

Description: The Committee will promote an exchange of information and experience on programming of housing, including medium- and long-term forecasts of housing needs, both in terms of methodology and numerical data. The purpose of this project is to enhance the operational character of the techniques for the benefit of Governments.

Method of work: Using a model monograph approved by the Working Party on Housing, countries have prepared national monographs which were analysed by the secretariat. A seminar will be held in Spain in spring 1981. Preparations for the seminar will be carried out at informal consultations.

cont.

#### 08.3.7. Relationship between housing and the national economy

Description: The Committee will explore the manifold relationships which exist between the housing sector and the national economy, including those with other economic sectors and with the creation of national income together with the social effectiveness of housing policy. The purpose of the project is to improve understanding of the short-, medium- and long-term impact of housing policy measures.

Method of work: Following exploratory work by the Working Party on Housing, detailed proposals for the project were formulated at an ad hoc meeting. A seminar will be held in 1982. Its three themes have been agreed upon and six rapporteurs are preparing discussion papers.

3

1982

### WORK AREA 08.4: BUILDING

#### 08.4.2. Environmental problems arising from construction activities

Description: The Committee will promote an exchange of information and experiences on policies and regulations relating to the working environment in the construction industry. The purpose of the project is to assist Governments in adapting their building policies to take fully into account environmental problems arising from construction activities.



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Rapporteurs will prepare, for consideration by the Working Party on Building, a draft questionnaire on national policies and legislation related to the working environment in the construction industry, which will serve to collect information for in-depth discussion at an ad hoc meeting. International organizations concerned will prepare reports on relevant activities for consideration by the Working Party. The project is being pursued in close co-operation with the International Labour Organisation (ILO). 4 1983

#### 08.4.3. Mechanization in the building industry

Description: The Committee will study mechanization problems in a broad sense, including possibilities of increasing efficiency, reducing noise and standardizing machinery and equipment. The purpose of the project is to assist Governments in formulating suitable long-term policies in this field, to stimulate trade in building machinery and equipment and to contribute to a better working environment on the construction site.

Method of work: The Working Party on Building has undertaken an enquiry on mechanization problems in the building industry and a rapporteur has synthesized the material received. A seminar held in Warsaw in May 1979, will be followed up by specialized inquiries. 3 1982

#### 08.4.7.1. Policies for energy conservation in buildings

Description: The Committee will promote an exchange of information and experiences on problems and policies related to: (i) optimal use of non-renewable sources of energy in buildings; (ii) application of renewable sources of energy in buildings; (iii) rehabilitation and retrofitting of buildings; (iv) integrated design of buildings with special reference to energy conservation requirements; and (v) over-all policy for energy conservation in buildings. This exchange will help Governments to formulate and refine their policies in an area of great concern to all countries.

Method of work: Following an ad hoc meeting of experts, rapporteurs have been designated to review and synthesize information on energy conservation policies to be submitted by ECE Governments in their 1980 country monographs on current trends and policies in the field of human settlements (project 08.1.1). The rapporteurs will submit a draft report to the Working Party on Building in June 1981. The final report will serve, inter alia, as background documentation for the second ECE Seminar on Energy and Human Settlements, planned to be held in 1982. Over-all policy for energy conservation in buildings will be discussed at the annual sessions of the Working Party. 3 1982

Estimated duration (in years)	Estimated termination year
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08.4.7.2. Regulations, codes and standards related to energy conservation in buildings

Description: The Committee will promote the exchange of information and experiences on regulations, codes and standards related to energy consumption and conservation in buildings. The main aim is to assist national authorities in elaborating effective regulations and to explore the possibilities of achieving international harmonization of regulations in this field.

Method of work: Information on national regulations, codes and standards related to energy use in buildings, with special emphasis on recent or intended changes in these documents, will be collected, analysed and presented to the Working Party on Buildings: (a) by a "pilot study" of rapporteurs covering a limited number of countries and (b) by an enquiry covering all ECE countries. The results of the work will be presented and discussed at the second ECE Seminar on Energy and Human Settlements, planned to be held in 1982.

4

1983

08.4.8. Information aimed at assisting international trade in building products and know-how

Description: The Committee will publish reports on building regulations systems in ECE countries and a directory of regulation information centres and central approval systems for building and building products. It will also promote the production of rational guides to building regulations and national catalogues of approved structural systems and building components. It will maintain a list of internationally unified building regulations and promote the production and use of multilingual glossaries and dictionaries.

Method of work: Initial proposals will be drawn up by the Working Party on Building. The secretariat will assemble and compile information submitted by member Governments and international organizations. Governments will be invited to implement, on the national level, proposals for the guides and catalogues and to use the multilingual glossaries and dictionaries prepared by CMEA and other organizations. A bibliography of multilingual terminology sources will be prepared by the secretariat.

cont.

Estimated duration (in years)	Estimated termination <u>year</u>
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08.4.9. International harmonization of the technical content of building regulations

Description: The Committee will promote the unification of design and construction requirements in building regulations in respect of: building climatology; building in seismic regions; structural safety; loads and use of structural materials; fire protection; the internal climate of buildings; dimensional constraints in dwellings and energy conservation in buildings. The general aim is to alleviate technical obstacles to international trade and to assist national authorities in their regulations work through international co-operation.

Method of work: Intergovernmental and inter-secretariat meetings will be organized by ECE in co-operation, as appropriate, with other international organizations. Recommendations to Governments and international organizations will be considered by the Working Party on Building. The implementation of the Working Party's recommendations will be monitored by the secretariat.

cont.

08.4.10. International harmonization of standards for buildings

Description: As a development of its building regulations harmonization work, the Working Party on Building agreed at its ninth session (December 1976) to intensify its efforts on the promotion of international building standardization, starting with a review of programmes and priorities established in this field.

Method of work: CIEA, CEN, IEC, INSTA, ISO, CIB and other international standardization and pre-standardization bodies contribute information in support of the work. A list of international building standards projects is maintained by the ISO secretariat and priorities from the governmental point of view are notified to the appropriate agencies. Close co-ordination is maintained with the work of ECE/STAND.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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08.4.11. International harmonization of approval and control rules for buildings and building products

Description: Differences in national approaches to quality approval and control of building products give rise to major obstacles in international trade. The Working Party on Building will promote the harmonization of quality approval and control and systems operating in respect of building regulations in member countries.

Method of work: The project was initiated by rapporteurs in co-operation with the secretariat. Subsequent work was carried out by the secretariat. Contributions have been made by EEC, IEC, ISO, MKB and subregional organizations concerned with certification and new-product assessment. Close links are established with ECE/STAND concerning its certification studies. Ad hoc meetings are being convened, as appropriate.

4

1983

08.4.12. Role and construction of the construction sector in economic development

Description: The Committee will study the contribution of the construction sector to gross domestic product (or net material product) and to employment (directly and indirectly). The study will also include an examination of the use of materials and other resources, e.g. energy, for the construction, improvement and maintenance of buildings and public works. The study aims at demonstrating the role of construction activities in economic development and is expected to be of assistance to Governments in their policy-making, both in developed and developing countries.

Method of work: A report based on available statistics and other relevant information will be prepared by the secretariat in accordance with an outline agreed by the Working Party on Building. Two rapporteurs will assist the secretariat in finalizing the report. Close liaison will be maintained with the United Nations Centre for Human Settlements (Habitat).

2

1981

09. - INLAND TRANSPORT

Estimated duration (in years)	Estimated termination year
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WORK AREA 09.1: MEDIUM- AND LONG-TERM PROSPECTS

09.1.1. Review of general trends with regard to transport development and transport policy, including possibilities for projects of common interest; prospects for specific inland transport sectors

Description: The Committee will keep under review and exchange information on general trends in the development of transport and of Government transport policies in order to determine appropriate action. The following project components are included:

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|--|-------|
| (a) Studies of Economic aspects of transport.  | cont. |
| (b) Periodic consideration of new and important developments in respect of inland transport in member countries, with due regard to measures adopted to improve the modal split, save energy, fuel and manpower;   | cont. |
| (c) Annual review of information collected in respect of taxes levied on transport and transport equipment;  | cont. |
| (d) Studies with regard to the apportionment of track costs among users of infrastructures as well as with regard to evaluation techniques concerning transport infrastructure investment;   | cont. |
| (e) Specific technological aspects related to one or more modes of transport including combined transport;   | cont. |
| (f) The prospects for rail transport, in particular with regard to the development of high capacity rapid transport systems of the main international railway lines as well as the prospects of combined transport. The introduction of new transport technologies and the application of modern techniques to railway operations; | cont. |
| (g) Studies of various aspects of problems arising in international transport of goods carried by road.  | cont. |

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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In the framework of this project, the following subject will inter alia be studied:

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|--|-------|------|
| (i) Follow-up action in respect of the document on "Problems connected with the use by international road transport, of the transport infrastructure in Europe ; | 2     | 1982 |
| (ii) Consolidated Resolution on Road Transport Facilitation;   | 2     | 1982 |
| (iii) Possible measures to liberalize international road transport;  | cont. |      |
| (h) The collection and periodic publication of information concerning existing bilateral agreements for international road transport.                            | cont. |      |

Method of work: With regard to project components (a), (b) and (h), the Committee will periodically review the results of the work of the Group of Experts on Transport Trends and Policy, information collected by means of a questionnaire circulated by the secretariat and other information available and determine any action which can be usefully taken. With regard to project component (c), information collected annually by the secretariat will be circulated for consideration by the Committee. With regard to project components (d), (e) and (f), the Committee will consider at its annual sessions which problems should be taken up by its subsidiary bodies in these fields and make appropriate arrangements for such work. With regard more particularly to combined transport mentioned under the same item (f), the Working Party on Rail Transport will examine together with the Group of Experts on Combined Transport and the Working Party on Road Transport the implications resulting for railways from the technique of piggy-back transport and especially those which concern the standardization of specialized rolling stock as well as operational conditions of combined transport, investment and price formation. The document mentioned under (g)(i) and the work referred to in (g)(ii) and (iii) will be considered in the framework of the Working Party on Road Transport which will select certain particular aspects such as those relating to the covering of utilization costs, to the facilitation of international road transport, to the harmonization of documents and procedures and to the financing of infrastructures of interest to international traffic. The Working Party will collect the documentation already existing within other international institutions and will formulate proposals for appropriate action.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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The document and the Consolidated Resolution mentioned under (g) will be considered within the framework of the Working Party on Road Transport, which will select certain particular aspects and formulate proposals for appropriate action.

09.1.2. Co-operation with the Senior Economic Advisers to ECE Governments on long-term economic prospects for the ECE region

Description: The Committee will consider and comment where appropriate on the Over-all Economic Perspective as elaborated by the Senior Economic Advisers to ECE Governments and will make available to them the results of its own relevant work on project 09.1.1.

cont.

Method of work: The secretariat will prepare and submit to the Committee the documentation which will be needed for this purpose and will assist the Committee in carrying out its work on this project.

WORK AREA 09.2: TRANSPORT INFRASTRUCTURE AND OPERATIONS

09.2.1. Examination of the possibilities for projects of common interest with a view to long-term co-operation in establishing a coherent navigable network in Europe

Description: The Committee will study the problems arising in connection with the development of inland water transport in Europe. It will in particular

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|---|---|------|
| (a) examine the possibilities for projects of common interest with a view to long-term co-operation in establishing a coherent navigable network in Europe; | 2 | 1982 |
| (b) study in depth certain aspects of prospects for the development of inland water transport in Europe to be selected by the Committee;                    | 2 | 1982 |
| (c) study and review of progress with regard to the study of the Danube-Oder-(Elbe) connection;   | 1 | 1981 |
| (d) study and review of progress with regard to the study of the Danube-Morava-Vardar/Axios-Aegean Sea connection.  | 4 | 1984 |

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The work will be carried out by the Working Party on Inland Water Transport, on the basis of documents prepared by the secretariat. With regard to project component (c), economic studies are being undertaken by the Group of Rapporteurs for the Economic Study of the Danube-Oder-(Elbe) connection. With regard to project component (d) a Group of Rapporteurs will review and enlarge the data collected by the consulting firm and the secretariat will distribute those findings when available to the ECE countries interested in this waterway project.

09.2.2. Selected technological problems in the development and operation of inland water transport

Description: The Committee will exchange information and views on selected aspects of new and improved techniques in inland navigation, their economic importance and appropriate application. In this connection, the following project components are to be taken up:

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|--|-------|------|
| (a) the use of containers and of ship-borne barges including administrative problems arising in this connection;   | cont. |      |
| (b) the effect on productivity of the gradual introduction of special purpose vessels, including container carrying vessels;   | cont. |      |
| (c) use of computers in the analysis, planning and management of inland water transport;   | cont. |      |
| (d) modern techniques in inland navigation - pushing;  | cont. |      |
| (e) devices for coupling pushed barges to one another to pusher craft and to self-propelled pusher barges;   | 2     | 1982 |
| (f) methods and technical means for freeing the fairway from ice in order to ensure uninterrupted navigation on rivers, lakes and channels during the period when they are frozen. | cont. |      |

Method of work: The Working Party on Inland Water Transport will carry out work on the selected problems; the Working Party may also explore the possibilities for convening seminars on some of the selected subjects, e.g. on the technical, operational and economic aspects of pushing techniques.



Estimated duration (in years)	Estimated termination year
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09.2.3. Selected problems of technological and economic aspects of urban transport systems in co-operation with the other Principal Subsidiary Bodies concerned

Description: The Committee will continue to exchange information on selected subjects in this field taking into account also work carried out by other international organizations.

cont.

Method of work: The Committee will consider urban transport questions itself or through its competent subsidiary bodies, in particular the Working Party on Road Transport with regard to road traffic aspects, and, where appropriate, at pertinent meetings organized jointly with the Committee on Housing, Building and Planning.

09.2.4. Review of situation concerning implementation and amendments to the European Agreement on Main International Traffic Arteries (AGR)

Description: In order to adjust the European road network to present and future requirements, the Committee will take suitable action in order to achieve an early and broad implementation of the Agreement and thereafter to amend as necessary its provisions with regard in particular, to the composition of the network, its numbering, and applicable technical standards.

cont.

Method of work: Proposals will be considered at meetings of the Working Party on Road Transport to be followed by secretariat action with regard to the amendment procedure.

09.2.5. Development of road networks

- (a) Construction of a Trans-European North-South Motorway

Description: With a view to carrying out this project within the framework of ECE and with the financial assistance of UNDP \*/ the countries concerned have established an appropriate framework for the joint study of selected problems connected with the construction of the motorway and for ensuring the necessary co-ordination in the execution of such studies.

3

1983

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\*/ United Nations Development Programme.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Progress reports will be reviewed periodically by the Working Party on Road Transport.

- (b) Study of problems connected with linking of the European road network to that of other regions.

Description: In co-operation with ESCAP, \*/ ECWA, \*\*/ and ECA, \*\*\*/ and taking into account the activities of the Ad hoc Meeting on the Development of the International Road Network in South-East Europe, the Committee will promote the study of problems connected with the development of interregional road links, in particular in areas where the recent road transport increase has created difficulties, the possibility of utilization of car ferry and piggy-back services being also envisaged.

5	1985
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Method of work: Exchange of information between the secretariats of the regional economic commissions concerned and, where appropriate, ad hoc meetings of the representatives of the countries concerned.

#### 09.2.6. Automatic railway coupling

Description: The Committee will follow developments affecting problems relating to the introduction of automatic coupling, including arrangements for its financing, and will consider the question of the preparation of a draft international agreement relative to the introduction of automatic coupling.

cont.

Method of work: The Working Party on Rail Transport will periodically review the progress made.

#### 09.2.7. Development of rail transport

Description:

- (a) The Committee will study trends and difficulties, including the problems of the railway's share in connection with long-distance transport, in particular to the Middle East with regard to infrastructure and operational requirements.
- (b) Identification of bottlenecks on the European railway network in the light of existing studies and the study of ways and means which might be sought to eliminate them.

2	1982
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2	1982
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\*/ Economic and Social Commission for Asia and the Pacific (ESCAP)  
 \*\*/ Economic Commission for Western Asia (ECWA)  
 \*\*\*/ Economic Commission for Africa (ECA).

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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- (c) Study of the possibilities of harmonization of the application and periods of summertime and the harmonization of dates for the changeover of railway schedules coinciding with the introduction of summertime.

2	1982
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Method of work: The work on (a) will be carried out by the Working Party on Rail Transport and in co-operation with the secretariats of ECMA and ESCAP. With regard to project components (b) and (c), the Working Party on Rail Transport will implement these project components.

WORK AREA 09.3: FACILITATION OF INTERNATIONAL  
TRANSPORT

09.3.1. Review of the application and modification  
of European Agreements and recommendations  
concerning the transport of dangerous goods

Description: The Committee will keep under review the provisions concerning the international carriage of dangerous goods in the region, as set out in international agreements and recommendations, and will decide periodically on the measures required to keep them up to date and facilitate their implementation. This project will comprise the following components in particular:

- (a) Harmonization and modernization of the pertinent provisions of ADR and RID and, in particular, consideration of proposed amendments relating to those parts of annexes A and B of the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR) which are common to ADR and to the Regulations concerning the International Carriage of Dangerous Goods by Rail (RID);
- (b) Consideration of proposed amendments to the provisions of ADR concerning road transport and to the provisions of Inland Transport Committee resolution No. 223 relating to the European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway (ADN);

cont.

cont.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(c) Handling of administrative and technical questions arising from the implementation of ADR;	cont.	
(d) Co-operation with the United Nations Economic and Social Council's Committee of Experts on the Transport of Dangerous Goods and its subsidiary bodies, in particular as regards the Inland Transport Committee's participation in the possible preparation of a world-wide convention on the carriage of dangerous goods by all modes of transport.	3	1983

Method of work: With regard to project component (a), the proposals will be considered at the Joint Meetings of the RID Safety Committee and the ECE Group of Experts on the Transport of Dangerous Goods. The latter Group will also consider proposals and studies relating to project components (b) and (d). With regard to project component (c), the secretariat will circulate to Governments copies of bilateral agreements authorizing certain transport operations by temporary derogation from the provisions of ADR annexes A or B.

09.3.2. Selected problems of simplification and harmonization of administrative formalities and procedures in the field of international transport, in particular at frontiers

Description: The Committee will follow developments in this field and select suitable problems for consideration. Components of this project are:

(a) Study of information on the difficulties encountered at frontiers by rail transport with regard both to the administrative organization and to the capacity of installations with a view to eliminating such difficulties, and review of related activities of international organizations concerned.	cont.	
(b) Study of the compatibility of systems of reserving seats among European railways.	1	1981
(c) Study of Customs questions with a view to simplification of Customs formalities and documents in the field of transport.	cont.	
(d) Study of ways and means of preventing abuse of the advantages resulting from the introduction of simplified Customs procedures, including review of implementation of resolution No. 220 (prevention of the abuse of Customs transit systems by drug smugglers).	2	1982

Estimated duration (in years)	Estimated termination year
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- (e) Study of selected problems with a view to reducing delays and formalities at frontiers; study of harmonization of conditions for exercising Customs and other controls undertaken at frontiers (health, phytosanitary, veterinary and quality controls; application of standards; public safety controls); harmonization and simplification of documentation required in international road transport; harmonization of the regulations on the weights and dimensions of road vehicles; facilitation of road transport of perishable foodstuffs; review of work in the field of simplification of procedures and reduction of delays to transport by inland waterways. cont.

Method of work: With regard to project components (a) and (b) the Working Party on Rail Transport implements these project components. With regard to project components (c) and (d), the Group of Experts on Customs Questions affecting Transport (in co-operation, where appropriate, with the Committee on the Development of Trade through the secretariat in respect of (c)) is implementing these project components, while the Inland Transport Committee and its subsidiary bodies concerned implement project component (e) in accordance with an order of priorities to be established.

09.3.3. Elaboration of, review of implementation and, where appropriate, modification of Conventions in the field of inland transport

Description: The Committee will consider periodically the status with regard to the entry into force and application of and the problems arising in connection with Conventions and Agreements drawn up under the auspices of the Inland Transport Committee, with a view to deciding whether new conventions should be elaborated, amendments should be prepared or revisions undertaken. \*/ It will in particular

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|---|---|-------|
| (a) resume work on a draft convention on the Contract for the carriage of Goods by Inland Waterway (CMN);                             | 4 | 1984  |
| (b) consider the problem of unification of rules concerning liability and compulsory insurance of owners and users of pleasure craft; | 3 | 1983  |
| (c) consider the problem of liability and compensation for damage caused during the carriage by land of hazardous substances;         |   | cont. |

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\*/ For other projects referring to specific Conventions, see projects 09.2.4, 09.3.1, 09.3.4, 09.3.7 and 09.3.8.

	Estimated duration (in years)	Estimated termination year
(d) consider questions concerning the Customs Conventions and resolutions related thereto, in particular problems arising in connection with the implementation of the 1975 TIR Convention;	cont.	
(e) study the possible extension of the TIR Convention to other regions and various aspects involved, including a possible link between Customs transit systems;	cont.	
(f) elaborate a draft international Convention on harmonization of Customs and other controls at frontiers (health, phytosanitary, veterinary and quality controls; application of standards; public safety controls).	1	1981

Method of work: The Committee's subsidiary bodies will review questions concerning the application and the elaboration of the various conventions under their competence. The work on (a) and (b) will be carried out by the Working Party on Inland Water Transport and its Group of Experts on River Law. With regard to project component (c), the Working Party on Road Transport will implement this project component. The Group of Experts on Customs Questions affecting Transport will consider at its sessions questions concerning project components (d), (e) and (f).

09.3.4. Promotion of combined transport and study of requirements for combined transport equipment and its terminals and their utilization; co-operation with UNCTAD \*/ on international multimodal transport of goods and in its work on container standards; study of other aspects of combined transport

Description:

- (a) The Committee will select administrative, technical, economic, documentary and legal aspects of combined transport, for study with a view to the development of appropriate measures to promote combined transport and to promote maximum utilization of equipment and terminals, used for such transport. This may include inter alia standardization and harmonization of dimensions, handling requirements, marking, coding, and identification systems for containers,

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\*/ United Nations Conference on Trade and Development.

Estimated duration (in years)	Estimated termination year
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possibilities of standardization of piggy-back equipment and review of the development of new services and technology in combined transport.

cont.

- (b) The Committee co-operates with UNCTAD with regard to international multimodal transport dealing inter alia with the liability and documentary régime of such transport and its work on container standards.

1	1981
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Method of work: Consideration, of these questions on the basis of studies prepared by the secretariat, by experts and by competent international organizations at sessions of the Group of Experts on Combined Transport, and of the Group of Experts on Customs Questions affecting Transport for Customs aspects of co-operation with UNCTAD, and secretariat co-operation with the UNCTAD secretariat and other international organizations.

- 09.3.5. Development of the work and studies now being carried out aiming at the elimination of disparities arising from the legal provisions applied to traffic on inland waterways which are subject to international conventions, and in particular, the disparity in the application of those provisions

Description and method of work: The Committee will examine this problem as part of its ongoing work and will decide in due course on the method of work to be followed.

cont.

- 09.3.6. Standardization of technical requirements for inland waterway vessels and ships' certificates

Description: The Committee will continue or undertake work on:

- |   |   |      |
|---|---|------|
| (a) Improvement of the uniform technical requirements for commercial craft.                     | 1 | 1981 |
| (b) The application of these technical requirements to vessels in service.                      | 2 | 1982 |
| (c) Standardization of additional technical requirements for pushed barges and their equipment. | 2 | 1982 |
| (d) Criteria for the definition of the maximum number of persons on board pleasure craft.       | 2 | 1982 |

	Estimated duration (in years)	Estimated termination year
(e) Standardization of and reciprocal recognition of certain ships' papers with a view to elaborating or updating resolutions on these subjects.	2	1982
(f) Harmonization of the standards to be applied to techniques for the prevention of water pollution by inland navigation vessels.	3	1983

Method of work: This project will be implemented by the Group of Experts on the Standardization of Technical Requirements for Vessels and of Ships' Papers. The project components (a) and (b) shall be taken up periodically or in case of necessity.

09.3.7. Selected problems of harmonization of regulations and standards with regard to the international transport of perishable foodstuffs and the special equipment used for such transport, including application of the Agreement on the International Carriage of Perishable Foodstuffs and on the special equipment to be used for such carriage (ATP)

Description: With a view to facilitating the international transport of perishable foodstuffs, the Committee will consider, as and when required, selected problems, in particular with regard to:

- |  |       |
|--|-------|
| (a) The application of the ATP and, where appropriate, its modification.   | cont. |
| (b) The application of the Committee's resolutions on standardization of packagings for certain perishable foodstuffs. | cont. |
| (c) The consideration of relevant studies carried out on the subject by other international organizations.             | cont. |

Method of work: Study of the problems involved by the Group of Experts on the Transport of Perishable Foodstuffs, and where appropriate in co-operation with the Working Party on Standardization of Perishable Produce and the Group of Experts on Combined Transport with a view to possible modification of the ATP and the resolution.



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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09.3.8. Elimination of technical barriers to international trade in motor vehicles and their equipment and parts \*/

Description: With a view to developing standards for motor vehicle equipment and parts, the Committee will keep up to date and supplement the regulations at present annexed to the 1958 Agreement concerning the Adoption of Uniform Conditions of Approval and Reciprocal Recognition of Approval for Motor Vehicle Equipment and Parts.

cont.

Method of work: Consideration of problems raised within or proposals submitted to, the Group of Experts on the Construction of Vehicles and its subsidiary bodies.

09.3.9. Problems of special interest to member countries of ECE which are developing from the economic point of view

Description: The Committee will consider in the course of its current activities, where appropriate, questions of particular concern to such countries, e.g. the promotion of the development of an efficient transport system and an adequate transport infrastructure: transport facilitation, possibilities for exchanges of experts and information on the maintenance, operation and repair of transport equipment; practical measures to improve fuel consumption of road vehicles, road safety and the development of the modern technology for each transport mode, and for combined transport best suited to such countries.

cont.

Method of work: The Committee's subsidiary bodies will consider, should the need arise, proposals and will take into consideration the possible consequences of the various conventions and resolutions proposed, concerning the European countries which are developing from the economic point of view.

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\*/ These aspects are considered also under the items 09.4.4; 09.5.2. and 09.5.3.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 09.4: TRANSPORT SAFETY

09.4.1. Selected problems in the transport of dangerous goods, including the movement of newly-developed dangerous goods in international traffic and the introductions of new transport techniques and equipment

Description: The Committee will study problems arising in the transport of newly-developed toxic substances, and will also study derogations from the provisions of annex A of ADR for the purpose of carrying out the trials necessary with a view to amending the provisions of that annex.

cont.

Method of work: Consideration by the Joint Meetings of the RID Safety Committee and the Group of Experts on the Transport of Dangerous Goods.

09.4.2. Selected problems of harmonization and codification of administrative and technical provisions concerning safety in inland water transport, including navigation rules and signalling systems and certificates of competence for boatmen and pleasure craft owners

Description: The Committee will continue to deal with selected problems relating to the harmonization of safety requirements for inland navigation in Europe. This project consists of the following components:

- (a) Application of the European Code for Inland Waterways (CEVNI) and the provisions concerning Signs and signals on Inland Waterways (SIGNI)
- (b) Revision of CEVNI and SIGNI with a view to the harmonization of the rules of the road and signs and signals used in various inland waterways.
- (c) Application of resolutions No. 13 and No. 14 revised concerning the international certificate for pleasure craft and the international certificate concerning the competence of pleasure craft operators.
- (d) Study of the unification of requirements for the issue of boatmasters' certificates with a view to their reciprocal recognition of certain purposes
- (e) Study of possible codification of existing safety provisions concerning inland navigation.

cont.

	2	1982
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cont.

	3	1983
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	4	1984
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: With regard to project components (a), (b) and (c), the Group of Experts on the Standardization of Rules of the Road and Signs and Signals in Inland Navigation will consider the application and possible modification of resolutions on this subject; with regard to project component (d), the Group of Experts on the Standardization of Technical Requirements for Vessels and of Ships' Papers will continue to review proposals before it; while project component (e) is under consideration by the Working Party on Inland Water Transport.

09.4.3. Safety requirements for the construction, transport and handling of containers

Description: The Committee will review periodically safety requirements applicable to construction and use of all types of containers to meet the requirements of new operational and technical developments, and exchange views on interpretation and application of the International Convention for Safe Containers (CSC).

cont.

Method of work: Work on this project will be carried out by the Group of Experts on Combined Transport and in co-operation with IMCO \*/ through the secretariat.

09.4.4. Safety requirements for road transport, including safety standards for vehicle construction, inspection and maintenance: \*\*/  
road traffic rules, road signs, signals and markings, and methods of training and drivers' competence and other road users' behaviour

Description: The Committee will select problems for study with a view to the adoption of international provisions and recommendations concerning: road signs, signals and markings; drivers' and other road users' behaviour; maximum driving time and other conditions applicable to professional drivers; vehicle construction, inspection and maintenance.

cont.

Method of work: This work will be carried out by the Working Party on Road Transport and its subsidiary bodies.

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\*/ Intergovernmental Maritime Consultative Organization.

\*\*/ These aspects are also considered under item 09.3.8, 09.5.2. and 09.5.3.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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09.4.5. Safety in rail transport

Description: The Committee will consider questions concerning railway safety.

cont.

Method of work: The work will be carried out by the Working Party on Rail Transport.

09.4.6. Safety provisions for ropeways

Description: The Committee will review safety provisions for ropeways and in particular, resolution No. 208 on installations for transport by rope and ski-lifts open to the public.

cont.

Method of work: Consideration of draft proposals by the Inland Transport Committee.

09.4.7. Safety regulations for transport of petroleum products by pipeline

Description: The Committee will exchange information on safety regulations in this field.

cont.

Method of work: Circulation of documentation, where appropriate, for consideration by the Inland Transport Committee.

09.4.8. Co-operation with other regional economic commissions in sharing ECE experience in promoting transport safety

Description: Study of problems of mutual interest in the field of transport safety.

4

1984

Method of work: The ECE secretariat will, as appropriate, keep the secretariats of other regional economic commissions informed concerning the results of relevant studies undertaken within the ECE.

WORK AREA 09.5: ENVIRONMENTAL AND RESOURCE-SAVING ASPECTS

09.5.1. Prevention of water pollution and control of noise caused by inland navigation vessels

Description: The Committee will continue its work on the implementation of resolution No. 18 concerning the prevention of water pollution by inland navigation vessels and work concerning the control of noise and vibration caused by such vessels.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The Group of Experts on the Transport of Dangerous Goods will elaborate recommendations on measures to be taken to prevent accidental pollution during the carriage of dangerous goods and the Working Party on Inland Water Transport will continue its work on the implementation of resolution No. 18.

09.5.2. Reduction of pollution and noise in transport

Description: The Committee will study relevant questions \*/ regarding the progressive reduction of existing admissible limits concerning noise and emission of pollutants by vehicles, including their maintenance necessary to comply with those limits \*\*/ and the pollution which might be caused during the transport of dangerous goods. It will also study various aspects relating to noise resulting from railway operations.

cont.

Method of work: Elaboration of recommendations and draft regulations by the Group of Experts on the Construction of Vehicles and its subsidiary bodies, and, with regard to accidental pollution during the transport of dangerous goods, by the Group of Experts on the Transport of Dangerous Goods. The questions relating to noise caused by railway operations will be studied by the Working Party on Rail Transport.

09.5.3. Increased economy and efficiency in energy consumption in transport

Description: The Committee will study the possibilities of energy economy in relation to certain aspects of transport policy and to transport operations. The project includes the following components:

- (a) Review of measures adopted, or which may be adopted, as part of policies aimed at saving energy and fuel:

Measures to save energy: traffic control, harmonization of regulations governing the weight and dimensions of vehicles, inspection of vehicles, driving behaviour, fiscal criteria, etc;

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\*/ For specific problems at present under consideration see TRANS/SC1/WP29/R.220.

\*\*/ These aspects are considered also under items 09.3.3; 09.4.7. and 09.5.3.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
Measures to improve transport efficiency: traffic management, co-operation between transport modes and improvement of transport mode interfaces, closer co-ordination of transport availabilities and requirements, etc.	cont.	
(b) Development of methods for reducing the cost of electrification and dieselization, and of methods, applied or under study, aiming at reduction of energy consumption in railway operations.	5	1983
(c) Study of technical problems related to possible economy of fuel by vehicles including their use and maintenance.	5	1985
(d) Study of the implications of the use of alternative sources of power.	5	1985
(e) Exchange of views and information on the means of saving energy in inland navigation and on the contribution to be made by the latter in the conservation and use of energy in the field of transport.	cont.	

Method of work: With regard to project component (a), the work will be carried out by the Inland Transport Committee and its subsidiary bodies. The work on project component (b) will be carried out by the Working Party on Rail Transport. With regard to project components (a), (c) and (d), studies undertaken by the Group of Experts on the Construction of Vehicles will be reviewed. Regarding project component (e), the work will be carried out by the Working Party on Inland Water Transport.

WORK AREA 09.6: STATISTICS AND INFORMATION

09.6.1. Statistical bulletins concerning inland transport and road traffic accidents

Description: In the light of its current work the Committee will determine the need for the collection of statistics on inland transport and traffic, including container transport and on road traffic accidents.

cont.

Method of work: The secretariat will collect data by means of questionnaires drawn up in the light of decisions taken by Groups of Experts on Transport Statistics, on Road Traffic Safety, and on Combined Transport, and arrange for their publication in the appropriate bulletins.

Estimated duration (in years)	Estimated termination <u>year</u>
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09.6.2. Elaboration of internationally comparable and agreed standards, methods of collection, definitions and terms for inland transport and road traffic accident statistics

Description: The Committee will continue its work with regard to development of appropriate terminology and definitions, as well as methodology for collecting statistics relating to inland transport, involving the following project components:

- |   |       |      |
|---|-------|------|
| (a) Consideration of proposals for additions to the Glossary and for terms and definitions used for statistical purposes.   | cont. |      |
| (b) Review of the Commodity Classification for Transport Statistics in Europe (CSTE) in the light of the Standard International Classification of all Goods and Services (ICGS) as it relates to transport, the Standard International Trade Classification, Revision 2 (SITC); and other relevant nomenclatures; development of a classification of characteristics of handling cargo in relation to the CSTE.   | 3     | 1983 |
| (c) Study of specific aspects of the methodology employed in collecting statistics on international and national inland transport, container transport and port traffic; review of data collection work in international trade documents and procedures being undertaken in other international organizations and related to transport statistics.  | cont. |      |
| (d) Study of specific aspects of the development of statistics on road traffic and road traffic accidents including review of methods for obtaining statistics on international basis, the study of sample survey methods applied to road traffic and transport and of methods of collecting complete data on road transport. Review of statistical work on road traffic and road traffic accidents being undertaken in other international organizations for the purpose of improving the collection, the presentation and quality of statistical data related to road transport and road traffic accidents. | cont. |      |
| (e) Consideration of railway accident statistics in co-operation with the international bodies competent in that area.  | cont. |      |

	Estimated duration (in years)	Estimated termination year
(f) Study of simplified methods of carrying out Censuses in general and their application to the transport field.	cont.	
(g) Development of standards and methodology for statistics concerning the use of energy in transport.	cont.	
(h) Consideration of guidelines for a system of price and quantity statistics and its implementation in the transport field.	cont.	
(i) Review of the implementation of European Programme of Basic Inland Transport Statistics and analysis of the methods used for the collection of statistics set out in this programme.	cont.	
(j) Development of uniform guidelines for the collection and publication of combined transport statistics.	cont.	

Method of work: Work on these problems will be carried out by the Group of Experts on Transport Statistics, in co-operation with the Conference of European Statisticians with regard to project components (h) and (i), with the Group of Experts on Road Traffic Safety with regard to project components (d) and (e), and with the Group of Experts on Combined Transport with regard to project components (c) and (j).

#### 09.6.3. Road traffic censuses

Description: The Committee will draw up recommendations for taking road traffic censuses at regular intervals.

cont.

Method of work: Recommendations will be drawn up by the Group of Experts on Transport Statistics and by ad hoc meetings convened for this purpose. The results will be published in tabular and map form by the secretariat.

#### 09.6.4. Publication of maps of inland waterways used in international traffic

Description: The Committee will periodically consider the preparation of maps on the subject.

cont.

Method of work: Preparation and publication by the secretariat, on the basis of information provided by Governments and River Commissions.



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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09.6.5. Periodical circulation of consolidated  
selected information concerning national  
road transport requirements

Description: The Working Party on Road Transport will assist in the collection, preparation and keeping up to date of information on national requirements concerning selected items of interest to international road transport and road safety, such as weights and dimensions of vehicles; the application of the green card system for motor car insurance and existing maximum speed limits for various categories of vehicles, etc.

cont.

Method of work: The relevant documentation will be prepared by the secretariat on the basis of information provided by Governments.

10. - SCIENCE AND TECHNOLOGY

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 10.1: MEDIUM- AND LONG-TERM PERSPECTIVES

- 10.1.1. Co-operation with the Senior Economic Advisers to ECE Governments on long-term economic perspectives for the ECE region and the interrelationships between economic and technological developments cont.

Description: With a view to providing information to national authorities and decision-makers on major scientific and technological trends and their implications for government decision-making, the Senior Advisers on Science and Technology, bearing in mind Commission decision G (XXXII), will identify and examine economic sectors in which major technological change is likely to be required or to occur; to this end they will also examine the relationships between technological progress and economic activity, as well as between technological development and its economic, social and environmental consequences.

Method of work: The Senior Advisers on Science and Technology will co-operate with the Senior Economic Advisers in assessing the impact of science and technology on long-term economic perspectives up to 1990. The Senior Advisers on Science and Technology will review progress on this project at their ninth session.

- 10.1.2. Scientific and technological trends in selected economic sectors cont.

Description: With a view to providing information to assist national policy-makers and providing guidance in stimulating new co-operative projects among ECE member countries, reviews will be undertaken of major medium- and long-term scientific and technological trends in selected economic sectors, such as basic materials, energy, automation, electronics as well as technical progress in management and integrated information systems for management.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The secretariat will undertake a study of the interrelationships between socio-economic development and technological innovation as outlined in paragraph 24 of document SC.TECH./R.81, taking into account the views expressed by the Senior Advisers at their eighth session. The Senior Advisers will review progress on this project at their ninth session.

WORK AREA 10.2: DEVELOPMENTS IN SCIENCE AND TECHNOLOGY POLICIES

10.2.1. Changes in national science and technology policies, priorities and institutions including orientation and administration of research policies

cont.

Description: With a view to providing information to national authorities and those involved in science and technology policy formulation, reviews will be undertaken of the major developments and changes in national science and technology policies, priorities and institutions including arrangements for the orientation, administration and evaluation of policies.

Method of work: (i) ECE member Governments will be requested to inform the secretariat on an on-going basis about any changes in their national science and technology policies, priorities and institutions; (ii) for every fourth session of the Senior Advisers, the secretariat will undertake a review of changes in over-all national science and technology policies (the next review will be prepared for the twelfth session). Between reviews, the secretariat will prepare a study on national science and technology policies in a narrower field (for the tenth session, a study on national policies in the field of technological innovation will be prepared); and (iii) preparations will proceed for the Seminar on the Evaluation of R and D in accordance with the decisions taken by the Senior Advisers at their eighth session.

Estimated duration (in years)	Estimated termination year
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10.2.2. Review of international bilateral and  
multilateral scientific and technological  
co-operation

cont.

Description: Periodic reviews will be prepared of international scientific and technological co-operation agreements with a view to ensuring maintenance of a current register of bilateral and multilateral agreements.

Method of work: (i) The secretariat will issue a revised and up-to-date Annex I of document SC.TECH./R.86 reflecting all additional information; (ii) ECE member Governments will be requested to keep the secretariat informed about the status of bilateral agreements on scientific and technological co-operation, and to send it copies of all newly-concluded agreements as well as amendments to those already in force; and (iii) the secretariat will update the review of bilateral agreements and report periodically to the Senior Advisers.

WORK AREA 10.3: INTERNATIONAL CO-OPERATION IN  
SCIENTIFIC AND TECHNOLOGICAL  
RESEARCH

10.3.1. Review of scientific and technological  
research in selected problem sectors

pending

Description: Reports of the research plans and needs in sectors proposed by member countries will be prepared with a view to identifying new areas in which international co-operation in scientific and technological research might be initiated and to initiating new international co-operative research projects.

Method of work: Pending: decision to be taken by the Senior Advisers at their ninth session.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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10.3.2. Co-operative technological forecasting and scientific and technological research related to new energy sources

cont.

Description: Assessments will be undertaken of technological forecasting methodologies as well as procedures for performing international co-operative forecasts related to new energy sources with a view to improving the quality and level of such forecasts; reviews will be undertaken of national research and development efforts relating to new energy sources with a view to identifying possible international co-operative research and development projects.

Method of work: (i) Work relating to the outcome of the Seminar on Co-operative Technological Forecasting: solar energy - pending; (ii) a Seminar on Technologies related to New Energy Sources will be held in the Federal Republic of Germany in 1980, and the secretariat will prepare a synthesis of the conclusions arising from the Seminar and recommendations for future action for consideration by the Senior Advisers at their ninth session; and (iii) the secretariat will start work on the first stage of the international co-operative research and development study on solar energy utilization referred to in document SC.TECH./AC.13/2/Add.1, but excluding action referred to in the first subparagraph of paragraph 5 of that document.

10.3.3. Scientific and technological research related to existing energy sources - the utilization of low-calorific-value fuels

3

1982

Description: A review of priority research and development problems in the field of low-calorific-value fuels will be conducted with a view to establishing international co-operative projects.

Method of work: (i) The Senior Advisers will undertake a study on new technologies for the integrated utilization of low-calorific-value solid fuels, with a view to efficient simultaneous production of energy and industrial products

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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resulting in a considerable decrease in environmental pollution, with the co-operation of the following ECE Principal Subsidiary Bodies: Committee on Electric Power; Coal Committee; Committee on Gas; Chemical Industry Committee; Steel Committee; Committee on Housing, Building and Planning; and Senior Advisers to ECE Governments on Environmental Problems; (ii) The Senior Advisers will hold joint biennial ad hoc meetings with the Coal and Electric Power Committees and with experts from the participating countries to consider the inclusion, in the programme of the Bulgarian laboratory, of projects for international co-operative research, and in order to discuss their further implementation; the first joint biennial ad hoc meeting will be held in the Bulgarian Laboratory in late 1980 or early 1981. On the basis of the information provided by the laboratory, and that of participating countries, the secretariat will issue a Note for the consideration of the Senior Advisers at their ninth session and other Principal Subsidiary Bodies concerned on the progress of research and the perspectives for implementation of the developments; and (iii) Annual outlines will be worked out on the status and achievements of R and D by countries participating in the project. The countries participating in the project will submit annual reports on the research undertaken which will then be summarized by a group of experts.

10.3.4. Expansion and promotion of multilateral co-operation

cont.

Description: Studies of the possibilities for expanding and promoting multilateral co-operation in scientific and technological research and on the organization, management and evaluation of such activities will be undertaken with a view to identifying new areas for co-operation and developing practical aids for use by those directly involved in planning, managing, evaluating and undertaking multilateral co-operative research activities.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The secretariat will proceed with the preparation of a preliminary version of the Guide on the organization and management of international co-operative research and prepare a progress report for consideration and final decision by the Senior Advisers at their ninth session.

10.3.5. Contribution to the follow-up of the United Nations Conference on Science and Technology for Development (UNCSTD)

2	1981
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Description: Proposals will be prepared on possible contributions which the ECE might make to the follow-up of the Conference.

Method of work: The secretariat will prepare proposals for consideration by the Senior Advisers at their ninth session on possible contributions which the ECE might make to the follow-up of the Conference.

WORK AREA 10.4: TRANSFER OF TECHNOLOGY

10.4.1. Measures to promote the transfer of technology

cont.

Description: Research will be undertaken on legal, economic, administrative and institutional factors affecting the transfer of technology within the ECE region, taking into account the facilitation of, and the difficulties in, the transfer of technology between countries with different economic and social systems and at different levels of economic development. Initiatives will be taken to improve intraregional flows of technology and to develop an information base for enterprises involved in the international transfer of technology in the ECE region.

Method of work: (i) Studies will be undertaken of problems affecting the transfer of technology in selected industrial sectors and/or activities for review by ad hoc meetings or seminars will be

Estimated duration (in years)	Estimated termination year
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carried out; and (ii) a Seminar will be convened in association with the Committee on the Development of Trade in 1981 in Warsaw (Poland) on "Trends in different forms of technology transfer and their impact on the development of trade and economic co-operation".

10.4.2. Preparation of manuals and aids related to specific aspects of the transfer of technology

cont.

Description: In co-operation with the Committee on the Development of Trade, manuals and aids will be prepared related to specific aspects of the transfer of technology with a view to making available to enterprises practical information for use by those responsible for planning, negotiating, and executing activities involving the transfer of technology.

Method of work: (i) ECE member Governments still intending to contribute to the Manual will indicate the possible date of transmission to the ECE secretariat of their country chapters before the end of February 1980; and (ii) subject to review when experience in the use of the Manual is considered at the Seminar in Warsaw (Poland), the Manual will be updated in accordance with the method outlined in paragraph 7 of document SC.TECH./R.88: TRADE/R.393, with the exception that Governments will inform the secretariat, preferably once every two years, of relevant changes.

10.4.3. Development of the statistics of science and technology

cont.

Description: In co-operation with the Conference of European Statisticians and UNESCO, the need for new statistics to assist science and technology policy-makers as well as the interpretation and adequacy of existing statistics will be studied in order to provide policy-makers with improved means of assessing the need for new policies and the effects of current ones. As a first stage, the Senior Advisers



Estimated duration (in years)	Estimated termination year
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in co-operation with the Conference of European Statisticians and UNESCO will carry out activities with a view to identifying and better defining indicators which can be used to measure the levels of technology transfer taking place among ECE member countries.

Method of work: In accordance with the agreement reached at the twenty-seventh session of the Conference of European Statisticians, "an informal meeting on statistics on the transfer of technology will be held, jointly with the Senior Advisers to ECE Governments on Science and Technology and UNESCO ... to consider an analysis of the information collected on national practices and views, and ... the results of this meeting will be reviewed by the fourth meeting on statistics of science and technology to be held under the joint auspices of the Conference, the Senior Advisers to ECE Governments on Science and Technology and UNESCO", scheduled to take place towards the end of 1980 in Paris at the invitation of UNESCO. The secretariat will report on this matter to the Senior Advisers at their ninth session.

11.- ECONOMIC PLANS, PROGRAMMES AND PERSPECTIVES

Estimated duration (in years)	Estimated termination year
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WORK AREA 11.1: MEDIUM- AND LONG-TERM PLANS,  
PROGRAMMES AND PERSPECTIVES

11.1.1 Exchange of information on the preparation and  
general orientation of plans, programmes and  
prospects on the medium- and long-term  
development of national economies

Description: The Senior Economic Advisers will continue to exchange information on the preparation and implementation of medium- and long-term plans, programmes and prospects, and on longer-term policy orientations including future development patterns envisaged by individual countries.

Method of work: At each session, country notes containing factual information on the general orientation of economic plans, programmes and prospects concerning the longer-term development (growth and pattern) of national economies, including new activities in, and new features of, planning and projections, will be submitted by Governments and discussed with the view to identifying common long-term trends, policy issues and potentialities for international co-operation. To streamline and facilitate discussion a list of issues for discussion will be selected by the Senior Economic Advisers at each session based on the notes prepared by the Governments and by the secretariat. cont.

11.1.2 Long-term economic prospects for the ECE region

Description: Pursuant to Commission decision G(XXXII), the Senior Economic Advisers will consider recurrently the long-term economic prospects of the ECE region. The work on the economic prospects for the ECE region to 1990 will be finalized in 1982. New Long-term economic prospects will be elaborated for the period 1981-2000. The preparation of the prospects will be based on deeper analyses of output, particularly industrial structures, and international trade, and on contributions from other Principal Subsidiary Bodies through the preparation of long-term prospects in their specific sectors or areas.

Method of work: The impact of changes in industrial pattern on future economic development will be considered on the basis of a study prepared by the secretariat, and on contributions made by Governments concerning their orientations for future growth pattern. To identify the interrelationship between economic

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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growth, trade, energy and science and technology, joint meetings will be convened in close association with the Committee on the Development of Trade, Senior Advisers to ECE Governments on Science and Technology and Senior Advisers to ECE Governments on Energy. Long-term projects carried out by other Principal Subsidiary Bodies will also be considered successively, either on the basis of notes prepared by the secretariat or through organization of joint meetings or seminars. The elaboration of tools, methods, including models for long-term projections will also be continued.

cont.

WORK AREA 11.2: SELECTED LONG-TERM ECONOMIC POLICIES AND PROBLEMS

11.2.1 The assessment of the impact of energy on long-term economic prospects

Description: The Senior Economic Advisers will continue to consider the interrelationship between energy activity and economic growth.

Method of work: Studies and notes prepared by the secretariat and contributions from the Senior Advisers to ECE Governments on Energy.

cont.

11.2.2 The assessment of the impact of science and technology on long-term economic prospects

Description: In line with the increasing role of science and technology, the Senior Economic Advisers will consider factors affecting the impact of science and technology on future pattern of economic growth.

Method of work: A Seminar which might be jointly convened with the Senior Advisers to ECE Governments on Science and Technology

2

1982

WORK AREA 11.3: INSTRUMENTS AND METHODS FOR THE ELABORATION OF NATIONAL PLANS, PROGRAMMES AND PROJECTIONS

11.3.1 Methodology of models and systems of models

Description: As a follow-up to the 1970 and 1974 Seminars on the use of models and systems of models in planning and decision-making, the Senior Economic Advisers will continue their exchange of views between model builders, research workers and planners, over three or four years, whenever new developments in this field justify the organization of annual

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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exchanges of bibliographical information on quantitative methods applied to economic planning and decision-making.

Method of work: A seminar on "Recent innovations in economic models including methods for planning complex (large-scale) development projects" will be organized in 1981. A report every two years on "Current research on the use of mathematical methods in economic analyses" is prepared by the secretariat on the basis of replies received from Governments and relevant research centres.

cont.

## 12.- STATISTICS

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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### WORK AREA 12.1: REGIONAL STATISTICAL-CO-OPERATION

#### 12.1.1 Review of statistical work in the ECE region, including current ECE statistical work and work of other organizations in the ECE region

Description: Review of statistical work under the programmes of the Principal Subsidiary Bodies of ECE, other statistical work of the secretariat; review of statistical work of the intergovernmental organizations in the ECE region, with a view to promoting co-ordination of statistical activities.

Method of work: Preparation of reports by the secretariat on the statistical work of ECE for consideration at plenary sessions; preparation of reports by the intergovernmental organizations active in the ECE region on their statistical work, for consideration at plenary sessions.

cont.

#### 12.1.2 Promotion of co-ordination of the statistical activities in Europe of intergovernmental organizations

Description: Promotion of co-ordination of work on statistical standards, statistical inquiries and other statistical activities of intergovernmental organizations in the ECE region with a view to achieving greater uniformity in concepts and definitions and to reducing to a minimum the burden on national statistical offices.

Method of work: Co-operation with intergovernmental organizations active in the ECE region on statistical projects of common interest through inter-secretariat consultations and the conduct of joint projects.

cont.

#### 12.1.3 Statistical support for ECE studies and projects

Description: Development and improvement of the statistical basis for the work of ECE and its Principal Subsidiary Bodies; provision of statistical information for ECE studies and projects.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Consideration at plenary sessions of questions concerning the development and improvement of the statistical basis for the work of ECE: see other items in the programme of work; provision of statistical data for ECE studies and projects (by national statistical offices).

cont.

12.1.4 Regional contribution and support to the work of the United Nations Statistical Commission

Description: Participation in world-wide projects undertaken by the UN Statistical Commission, with particular reference to the circumstances and requirements in the ECE region.

Method of work: Consideration at plenary sessions of matters relating to its participation in the work of the UN Statistical Commission; the specific projects and objectives and the methods by which they are carried out are described in the relevant items of the programme of work.

cont.

12.1.5 Statistical problems of special interest to member countries of the ECE which are developing from the economic point of view

Description: Support for UNDP regional and inter-regional projects in statistics, statistical information systems, use of computers for statistical purposes and training in use of computers.

Method of work: Consideration at plenary sessions of proposals and support for statistical projects of special interest to the member countries of the ECE region which are developing from the economic point of view.

cont.

WORK AREA 12.2: ORGANIZATION AND OPERATION OF STATISTICAL SERVICES

12.2.1 Use of computers for statistical purposes and design and development of statistical information systems

Description: Study of important problems, exchange of national experience and promotion of international co-operation in these fields.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work:

- |  |       |      |
|--|-------|------|
| <p>(a) ISIS '80: preparatory work for (by national statistical offices) and seminar on the following subjects: organization and position of the data base system and of the meta-information system within the statistical information system; meta data and meta-information systems (dictionaries, directories, registers, etc.); and data bases, including data structures.</p>   | 1     | 1980 |
| <p>(b) Preparatory work for the seventeenth session of the Working Party: preparation of papers on the following subjects: generalized computer programs (further round of national reports); draft directory of generalized programs (secretariat); draft report of group of rapporteurs on computer aspects of the use of registers in statistical offices; reports of ISIS; report on activities of the Computing Research Centre, Bratislava; development and experience in the field of automated data banks (national reports); the interdependence of trends and requirements in computing technology and statistical services (national reports); various aspects of distributed processing, including organizational, hardware and software problems (national and international statistical offices); impact of mass storage devices on statistical processing (Sweden); use of procedural and non-procedural interactive languages (national reports); data processing aspects of the 1980 population and housing censuses (Hungary and Romania); seventeenth session of the Working Party on these topics with as the major topic the subject of distributed processing (1980/81).</p> | 1     | 1981 |
| <p>(c) Preparatory work (by national statistical offices) for and seminar on the following subjects: data entry; data dissemination; interactive terminal oriented interface between statistical users and the computer; and other contributions to the long-term research programme.</p>  | 1     | 1982 |
| <p>(d) Preparatory work for later sessions of the Working Party on the following subjects: precision of data in statistical data files; geographical coordinates in statistical processing; disclosure techniques and selected other subjects.</p>   | 1     | 1983 |
| <p>(e) Review of the UNDP project on the use of computers for statistical purposes and design and development of statistical information systems</p>   | cont. |      |

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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12.2.2. Statistical methodology

Description: Study of problems of quality, accuracy and timeliness and similar methodological questions in official statistics and of ways of solving them.

Method of work:

- |  |   |       |
|--|---|-------|
| (a) Preparatory work (by national statistical offices and the ECE secretariat) and meeting on<br>(i) methodological and organizational aspects of household surveys, with particular reference to problems of longitudinal panel surveys and rotating sampling schemes; treatment of non-response; and evaluation studies, including experience on models for the estimation of the main components of the total survey error; and<br>(ii) exchange of views on draft guidelines for the presentation of the quality of survey results | 1 | 1981  |
| (b) Preparation of guidelines for the presentation of the quality of survey results (with the assistance of interested countries).   | 2 | 1982  |
| (c) Further study of problems relating to household surveys: the results of evaluation studies; development of models for use in estimation; derivation of time series; linkage of data from different surveys; interdependencies of survey data and other statistics; implications of the methodology of surveys for the adequate use of survey results in the consideration of policy decisions.   |   | cont. |

12.2.3 Organization and operation of statistical offices

Description: Study of problems relating to the organization, operation and management of statistical services, requiring top-level decisions.

Method of work:

- (a) Consideration at the twenty-ninth plenary session of the following topics:
- (i) Problems of presentation, publication, dissemination and interpretation of data (problems related to dissemination - methods used, including modern communication technology, resources required, likely future developments;



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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problems related to the communication between users and producers of statistics - forms of communication, adaptation of publications to user needs, priorities in dissemination with respect to different groups of users and problems of public relations - ways and means to secure adequate publicity) preparation of a basic discussion paper (by Hungary) preparation of brief papers by discussants (Canada, Cyprus, France, Norway and Sweden).

- (ii) Possibilities of replacing exhaustive statistical inquiries by sample surveys (comparative advantages and disadvantages of sample surveys in relation to exhaustive inquiries; prerequisites for the extended use of sample surveys; and the "optimal mix" of total enumerations and sample surveys) preparation of a basic discussion paper (by Turkey); preparation of brief papers by discussants (Cyprus, German Democratic Republic, Spain and USSR).

1

1981

- (b) Consideration at the thirtieth plenary session of the following topics:

- (i) Ways and methods to adapt statistics to users' needs: collection of views on issues to be discussed consideration of terms of reference at the twenty-ninth session.
- (ii) Possibilities of replacing exhaustive inquiries, especially population and housing censuses, by using information from administrative registers: collection of views on **issues** to be discussed; consideration of terms of reference at the twenty-ninth session.

2

1982

- (c) Preparatory work for a seminar on statistical data collection and processing systems under new conditions: preparation of papers on the following topics: (i) the interrelationship between national statistical offices and other organizations concerned with the collection, processing and analysis of social, economic, administrative and statistical information (by Cyprus - subject to confirmation, France and USSR) (ii) the role of modern techniques in the regionalization of

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
statistical activities (by Canada - subject to confirmation, German Democratic Republic, Sweden and USSR); (iii) methods used to ensure the quality, reliability, timeliness and confidentiality of statistical information (by Finland; Germany, Federal Republic of; Netherlands; Spain and United Kingdom; and (iv) experience gained in the training of staff in the use of EDP technology for the processing of statistical information (by Hungary, Switzerland - subject to confirmation - and USSR); seminar to study these topics.	2	1982

WORK AREA 12.3: DEVELOPMENT AND HARMONIZATION OF  
 ECONOMIC STATISTICS

12.3.1 Development and linking of SNA and MPS national  
 accounts and balances systems

Description: Further development of the systems of national accounts and balances: application and review of implementation of the systems; use of the systems as a basis for harmonizing and co-ordinating statistics in different fields.

Method of work:

- (a) Continuation of the review of SNA; further work to be considered later in the light of the decisions taken at the twenty-first session of the Statistical Commission. cont.
- (b) Continuation of the review of MPS and further study of SNA/MPS links; testing of the conceptual framework for inter-system comparisons in terms of actual figures by pairs of countries (France/Hungary, possibly followed by other bilateral studies); further development of the conceptual framework and extension to related areas, e.g. balance sheets; circulation of information on developments of MPS at the national level, particularly with regard to developments relevant to SNA/MPS comparisons. cont.
- (c) Consideration of problems of co-ordination of manpower statistics with the national accounts and balances (work to be conducted in the context of project 12.4.4.1); preparation of national papers on technical problems of co-ordination of economic statistics with the national accounts and balances (by interested countries). 2  
1982

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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12.3.2 Promotion of publication and dissemination of internationally comparable statistics on production, national income and productivity

Description: Promotion of bilateral and multilateral comparisons of corresponding national accounting aggregates, productivity, etc.

12.3.2.1 International comparisons

Description: Comparison within the ICP framework for the European region; and other comparisons of corresponding aggregates.

Method of work:

(a) Organization of a comparison within the ICP framework for the European region: completion of the list of representative items for marketed goods and services (mid-1980); elaboration of the list of representative items for non-marketed goods and services (mid-1981); collection, submission and processing of the data (national statistical offices, with the special responsibility of Austria); collection and submission of price data for representative items, compilation of purchasing power parities for detailed categories, elaboration of expenditure categories, conversion into international values, review of results and correction of data (Statistical Office of the European Communities, ECE secretariat and UN Statistical Office) (1980 and 1981); further elaboration of aggregation methods for the regional comparison (ECE secretariat, UN Statistical Office, Statistical Office of the European Communities) (mid-1981); informal meeting to review the results and to consider the ways of combining the European comparisons into an intra-regional comparison and the methods of linking the results with the global ICP comparison (second quarter 1982).

3 1983

(b) Conduct of bilateral comparisons of basic economic aggregates and analysis of the results concerning levels, structures and prices; conduct of bilateral comparisons of levels of productivity and analysis of the results; and comparisons not involving the recalculation of data into a common price system.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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12.3.2.2 Comparison of relative income differences within the population

Description: Conduct of a continuing development programme for international comparisons of the distribution of incomes.

Method of work: Preparatory work (exchange of information, special studies, etc.) on methodological problems which have so far not been solved: notably on procedures for elimination of distortions from partial and total non-response, adjustments for filling gaps resulting from the non-reporting, under-reporting or omission of incomes and elaboration of a scale of consumption units suitable for income studies; conditional to the success of this preparatory work: conduct of another comparison of relative income differences at an appropriate time.

cont.

12.3.3 Development and harmonization of statistical nomenclatures relating to economic activities and goods and services

Description: Participation in the work of the Statistical Commission on the preparation of international classifications relating to economic activities and goods and services; harmonisation of UN and CMEA classifications in these fields.

12.3.3.2 Conversion key between UN and CMEA standard classifications of economic activities

Description: Study of the correspondence and development of a conversion key between the ISIC and the CMEA classification of economic activities.

Method of work: A study of the points of correspondence and difference between the ISIC and the CMEA classification of economic activities; development of conversion keys between the corresponding classifications; testing of the conversion keys in terms of actual figures (by the secretariat in consultation with the Secretariat of CMEA, with the assistance of national rapporteurs and informal meetings as required).

2

1982

12.3.3.3 Conversion key between UN and CMEA standard classifications of goods and services.

Description: Study of the correspondence and development of a conversion key between the UN and CMEA classifications of goods and services.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Study of the points of correspondence and difference between UN and CMEA classifications of goods and services; development of conversion keys between the corresponding classifications; testing of the conversion keys in terms of actual figures (by the secretariat in consultation with the Secretariat of CMEA, with the assistance of national rapporteurs and informal meetings as required).

2	1984
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#### 12.3.4 Foreign trade statistics

Description: Study of selected subjects in the compilation of foreign trade statistics and their international comparability.

##### 12.3.4.1. Conversion key SITC/SFTC

Description: Preparation of a detailed correspondence table between the SITC and the SFTC; development, on the basis of the correspondence table, of an operational key for the conversion of data classified according to the SFTC into SITC categories (and vice versa).

Method of work: Continuation of the testing of the revised correspondence table and draft conversion key between the SITC, Rev.2 and the SFTC in terms of actual statistics (by Austria and Hungary); a second consultation to finalize the key (1980/81, if sufficient progress has been made); and development of key for the conversion of SITC data into SFTC categories

2	1982
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##### 12.3.4.2. Price and quantity measures in foreign trade

Description: Development and improvement of statistical measures of prices and quantities in foreign trade.

Method of work: Continuation of the analysis of national practices with regard to the measurement of prices and quantities in foreign trade (by the secretariat); meeting on the subject when there are sufficient new developments to warrant further consideration-

1	1985
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#### 12.3.5 Price and quantity statistics

Description: Study of problems in particular areas of price and quantity statistics in relation to the system of price and quantity statistics.

Estimated  
duration  
(in years)

Estimated  
termination  
year

#### 12.3.5.2 Statistics of consumer prices

Description: Study of the methodological problems involved in the compilation of statistics of consumer prices (jointly with the ILO).

Method of work: Continuation of work on selected aspects of statistics of consumer prices, notably treatment of durable goods, housing and credit sales; classification of consumer goods and services; indices net of indirect taxes; problems of seasonality (preparation of papers by national statistical offices and the ILO and ECE secretariats, informal meetings on particular aspects); meeting on treatment of durable goods, housing and credit sales; indices net of indirect taxes; price indices, excluding the effect of changes in import prices; treatment of new products and of quality change (case study); inter-country and interregional comparisons of consumer price indices; and calculation of the nominal income before taxes necessary to ensure a constant purchasing power, taking into account shifts in tax rates (1981/82).

2

1982

#### 12.3.5.3 Price and quantity measures in services

Description: Study of the methodological problems involved in the measurement of prices and quantities in services.

Method of work: Further study of selected aspects of price and quantity statistics in services, notably measurement of output of non-marketed services; choice of price deflators for constructing aggregate accounts at constant prices; treatment of new techniques in the communication service; treatment of new forms of services (by national statistical offices and the secretariat); need for and timing of a meeting on this subject to be considered later.

#### 12.3.7 Other selected subjects in economic statistics

Description: Preparation and revision of international recommendations in specific areas of economic statistics in relation to the systems of national accounts and balances.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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### 12.3.7.1 Agricultural statistics

Description: Improvement and development of food and agricultural statistics (jointly with FAO and ECE Committee on Agricultural Problems).

Method of work 1/

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|--|---|------|
| (a) Preparation of a European Handbook of Economic Accounts for Agriculture covering both SNA and MPS types of accounts and links between them, presenting the set-up of the whole system, but with detailed presentation only for the commodity, production and capital formation accounts and corresponding balances (by the joint secretariats); further work on income and outlay accounts and capital formation accounts (by the joint secretariats). | 1 | 1981 |
| (b) Review and updating of earlier recommendations on statistics and balances for livestock and animal products, completion of work on production and utilization statistics of other products (potatoes, sugar beets, sugar, oilseeds, oil crops and vegetable oil); meeting of the Study Group (1980/81).  | 2 | 1982 |
| (c) Overall review of agricultural statistics in the light of developments of data requirements; preparation of a draft programme, serving as a framework for the systematic presentation of the data requirements; meeting to consider the draft programme (1981/82).   | 2 | 1982 |
| (d) Preparation of a glossary of terms used in agricultural statistics in the working language of the region.  | 2 | 1982 |
| (e) Study of problems involved in statistics of the agricultural labour force and labour input; meeting to consider appropriate recommendations in the light of the results at the thirteenth International Conference of Labour Statisticians and of the second joint ECE/ILO Meeting on Manpower Statistics. Terms of reference and timing of the meeting to be considered later.  | 2 | 1983 |

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1/ The programme of work in the field of agricultural statistics as a whole will be reviewed at the 1980/81 session of the Study Group on Food and Agricultural Statistics in Europe.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(f) Study of methodological questions relating to farm book-keeping data and the possibility of their harmonization with other agricultural statistics; the need for and timing of a meeting on this subject to be considered later.	2	1983
(g) Review of the Programme for the 1990 World Census of Agriculture. Meeting to consider appropriate recommendations for Europe. Timing of the meeting to be considered later.	3	1984

#### 12.3.7.2 General energy statistics

Description: Elaboration of a system of energy statistics serving as a framework for the development and harmonization of statistics on energy needed for national and international purposes.

Method of work: Circulation of questionnaire on definitions to be used in conjunction with over-all energy balances for comments; preparation of final set of definitions in the light of comments received, submission of final set of definitions to twenty-ninth plenary session for approval (by the secretariat); further development of statistics on final consumption of energy (purposes for which energy is used and characteristics of energy required for particular uses; quantities of useful energy consumed by final consumption categories); development of energy statistics in monetary terms and linking them to the existing statistics in monetary terms, such as the national accounts and balances; study of the methodological problems involved in the development of statistics for renewable forms of energy; meeting on general energy statistics to consider these subjects; consideration of terms of reference for a further meeting on general energy statistics at the twenty-ninth plenary session; meeting on general energy statistics (1981/82).

3	1983
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#### 12.3.7.4 Statistics of science and technology

Description: . Development and improvement of statistics of science and technology; co-ordination of statistics of science and technology with the systems of national accounts and balances (jointly with UNESCO and the Senior Advisers to ECE Governments on Science and Technology).

Method of work:

- (a) Follow-up work on subjects discussed at the 1976 Seminar on Statistics of Science and Technology:  
 (i) co-ordination of science statistics with the



Estimated duration (in years)	Estimated termination year
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systems of national accounts and balances (by the ECE secretariat in co-operation with UNESCO, with the assistance of national rapporteurs, by correspondence and informal meetings as required); (ii) study of the work on science statistics carried out within the framework of the CMEA (by the UNESCO secretariat in co-operation with the Secretariat of the CMEA); small meeting of experts, if required; (iii) preparation of a set of concepts and definitions for selected indicators of the transfer of technology; investigation of the availability of these indicators and of data on patents (by the secretariat, in co-operation with WIPO).

1	1981
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- (b) Preparatory work for the fourth joint meeting on statistics of science and technology on the following subjects:  
 (i) measurement of the economic effects resulting from the implementation of the results of R and D; (ii) statistics of scientific and technological activities related to R and D; (iii) measurement of the financial resources for R and D in the productive sector; and (iv) development of science and technology statistics to measure the international flow of technology (by the secretariats of UNESCO and ECE, with the assistance of national rapporteurs; and possibly workshops to be convened by UNESCO); meeting on the subjects mentioned (end 1980/81).

1	1981
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- (c) Further work on statistics of science and technology to be considered after the fourth joint meeting.

2	1985
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#### 12.3.7.5 Statistics of tourism

Description: Preparation of international guidelines for statistics of tourism.

Method of work: Further meeting on statistics of international and domestic tourism, if required (to be considered later when sufficient progress has been made in the preparation of the manual on statistics of tourism by WTC).

<u>Estimated duration (in years)</u>	<u>Estimated termination years</u>
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12.3.7.6 Enterprise statistics

Description: Development of statistics for enterprise-type statistical units.

Method of work: Re-assessment of the objectives of work on enterprise statistics in the light of the comparative analysis of country practices issued by the UN Statistical Office and other relevant documents; consideration of the need for and direction of further work at the twenty-ninth plenary session.

1

1981

WORK AREA 12.4: DEVELOPMENT AND HARMONIZATION OF SOCIAL AND DEMOGRAPHIC STATISTICS

12.4.1. Framework for the integration of social and demographic statistics

Description: Participation in the work of the UN Statistical Commission on the elaboration of a framework for the integration of social and demographic statistics; elaboration of the common concepts, definitions and classifications of the framework; and links among the different fields of social and demographic statistics and with the systems of national accounts and balances; participation in the work of the UN Statistical Commission on social indicators; and work on related subjects.

Method of work:

- (a) Continuation of the work on harmonization of concepts, definitions and classifications, with priority for age group classifications, family and household concepts and definitions and classifications of these units and time units and reference periods; a test of the usefulness of the socio-economic classification recommended for use in the 1980 population and housing censuses in the ECE region; preparation of (i) progress report on links among economic, social and demographic statistics (UNSO) and (ii) paper on statistics on the socio-economic structure and social mobility of the population in the context of the FSDS; a test of the extent to which the series and structure proposed in Towards an SSDS are capable of providing the social indicators specified by different international organizations; meeting of the Working Party to consider the subjects on which sufficient progress has been made (1981/82).

2

1982

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(b) Further work on this project to be considered later in the light of the progress made and experience gained.	3	1985
12.4.2 <u>Development and harmonization of statistical nomenclatures in the field of social and demographic statistics</u>		
<u>Description:</u> Participation in reviews of classifications in the field of social and demographic statistics; preparation of new classifications in fields in which they do not exist; study of the similarities and differences between the UN and CMEA classifications in the field of social and demographic statistics and the preparation of conversion keys where required.		
<u>Method of work:</u> A comparative study of UN and CMEA classifications in the field of social and demographic statistics; preparation of conversion keys in areas where they are needed (by the secretariat, in co-operation with the Secretariat of CMEA and with the assistance of national rapporteurs).		
	2	1982
12.4.3 <u>Population and housing censuses</u>		
<u>Description:</u> Review of implementation of the recommendations for the 1980 population and housing censuses in the ECE region; preparatory work for the 1990 census recommendations.		
<u>Method of work:</u> Consideration at the twenty-ninth plenary session of the need for a regional publication on housing census results; preparatory work for and meeting on the evaluation of the census results and methodology (1983).		
	3	1983
12.4.4. <u>Selected problems in social statistics</u>		
<u>Description:</u> Preparation and revision of international recommendations in specific areas of social statistics; development of the relevant fields of the framework for social and demographic statistics.		
12.4.4.1 Manpower statistics		
<u>Description:</u> Elaboration of the objectives and contents of the field of earning activities of the framework for the integration of social and demographic statistics and links between it and other fields and with the		

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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systems of national accounts and balances;  
elaboration of existing standards and development  
of new standards for the statistics needed for meeting  
these requirements (jointly with ILO).

Method of work: Further study of selected aspects of  
employment statistics (ILC:CES/AC.51/9, paragraph 84);  
study of problems relating to the co-ordination of  
manpower statistics with the national accounts and  
balances; preparatory work for and meeting in 1982/83  
on employment statistics to (i) continue the review of  
international standards, to be considered by the  
Thirteenth International Conference of Labour  
Statisticians; and (ii) discuss some of the topics  
proposed for further study. Terms of reference for the  
meeting to be considered at the twenty-ninth plenary  
session

2

1983

#### 12.4.4.2 Health statistics

Description: Elaboration of the objectives and contents  
of the health field of the framework for the integration  
of social and demographic statistics and the links  
between it and other fields and with the systems of  
national accounts and balances; elaboration of existing  
standards and development of new standards for the  
statistics needed for meeting these requirements  
(jointly with WHO).

Method of work: (i) Study of the possibilities of  
drawing up a classification of impairments and handicaps  
suitable for use in classifying data from household  
surveys and compatible with the more detailed  
classification issued for trial purposes by WHO (WHO,  
jointly with UN); (ii) preparation of national reports  
on linking population-based data and institution-based  
data; (iii) comparative study of social indicators in  
the field of health compiled at the national level  
(Regional Office for Europe of WHO); (iv) study of  
problems relating to health accounts, including the  
classifications by kind of activity and by objectives to  
be used in such accounts (small group of interested  
countries); (v) consultations of small groups of  
interested countries to carry out preparatory work on  
the above subjects as and when required; (vi) meeting  
to consider the results of work on the above subjects  
(1981/82).

2

1982

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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#### 12.4.4.3 Statistics of education

Description: Elaboration of the objectives and contents of the educational field of the framework for the integration of social and demographic statistics and the links between it and other fields and with the systems of national accounts and balances; elaboration of existing standards and development of new standards for the statistics needed for meeting these requirements (jointly with UNESCO).

Method of work: Further study and international consultations on the general aspects and specific problems in the application of ISCED and the relation of statistics based on ISCED and the FSDS as a whole; continuation of the study on availability of social indicators in the field of education, extension of the study to all countries in the ECE region and analysis of national and international data available in terms of the concepts underlying the indicators and the purposes which the indicators are designed to serve (by UNESCO); further work on economic accounts for education, when further progress has been made in the work on social service accounts as a whole; further meeting on statistics of education to review the results of the work on these subjects (1981/82).

2

1982

#### 12.4.4.4. Cultural statistics

Description: Development and improvement of cultural statistics; elaboration of the objectives and contents of the leisure field of the framework for the integration of social and demographic statistics and the links between it and other fields and with the systems of national accounts and balances; elaboration of existing standards and the development of new standards for the statistics needed for meeting these requirements (jointly with UNESCO).

Method of work:

- (a) Preparatory work for and meeting of a small group of interested countries to (i) elaborate the classification of cultural spheres in the form of a matrix of cultural spheres and cultural functions and (ii) examine in more detail lists of cultural activities, cultural goods and services and cultural occupations.

1

1981

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(b) Establishment of small groups of countries to work on specific categories of the framework, methodological issues and other related topics	2	1982
(c) Third joint meeting to consider the scope, structure and contents of the framework as a whole (1982/83).	2	1982

#### 12.4.4.5 Housing statistics

Description: Elaboration of the objectives and contents of the housing field of the framework for social and demographic statistics and the links between it and other fields and with the systems of national accounts and balances; elaboration of existing standards and development of new standards for the statistics needed for meeting these requirements; improvement and further development of construction statistics and planning statistics (jointly with the ECE Committee on Housing, Building and Planning).

Method of work: (i) Housing statistics: review of the part of the guidelines on social indicators relating to housing; review of developments in the field of housing sample surveys; review of the European Programme for Current Housing Statistics and the Annual Bulletin of Housing and Building Statistics for Europe; (ii) construction statistics: review of the extent to which the UN Yearbook of Construction Statistics meets the needs of countries in the ECE region in respect of its contents and timeliness; (iii) planning statistics: statistics for physical planning, including urban planning (when further progress has been made by users in defining their requirements); (iv) meeting on these subjects (1981/82).

2                      1982

#### 12.4.5 Selected problems in demographic statistics

Description: Preparation and review of international recommendations in specific areas of demographic statistics; development of the demographic field of the framework for the integration of social and demographic statistics.

##### 12.4.5.1 Migration statistics

Description: Participation in the work of the UN Statistical Commission on the preparation of revised international recommendations for statistics of international migration and development of guidelines for statistics of internal migration; improvement of migration statistics in general.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work:

- |   |       |      |
|---|-------|------|
| (a) Regular exchange of statistics of long-term migration by country of last or intended residence; inclusion of a breakdown by citizenship groups beginning with the data for 1980.  | cont. | -    |
| (b) Further bilateral and multilateral studies to examine reasons for differences between data for corresponding flows.   | 2     | 1982 |
| (c) Collection of information on national practices in compiling statistics of the alien stock for intercensal periods.   | 1     | 1982 |
| (d) Meeting to review progress in improving coverage and comparability of statistics of long-term migration and in developing statistics of short-term migration and to consider analysis of practices in compiling statistics of the alien stock and possible action to organize a regular exchange of these statistics. | 1     | 1983 |

12.4.5.3 Co-ordination of demographic statistics within the FSDS

Description: Elaboration of the objectives and contents of the demographic field of the framework for the integration of social and demographic statistics and the links between it and other sub-systems and with the systems of national accounts and balances; elaboration of existing standards and development of new standards for the statistics needed for meeting these requirements.

Method of work: Further preparatory work (by the secretariat) and meeting in 1980/81 to (i) prepare recommendations concerning the compilation of current population estimates; (ii) review the draft guidelines on age group classifications being prepared by UNSO; and (iii) consider the problems involved in the co-ordination of statistics of households and families and make proposals for work on this subject.

	1	1981
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 12.5: DEVELOPMENT AND HARMONIZATION OF  
ENVIRONMENTAL AND RELATED STATISTICS

12.5.1. Environmental statistics

Description: Study of the statistical requirements for environmental studies and policies; participation in the work of the UN Statistical Commission on the development of a system of environmental statistics; elaboration of the concepts, definitions and classifications to be used for the study of particular environmental phenomena and for the purposes of the system as a whole; study of methodological questions and problems of data collection in particular areas of environmental statistics (jointly with the Senior Advisers to ECE Governments on Environmental Problems).

Method of work:

- |   |   |      |
|---|---|------|
| (a) Frameworks for the co-ordination and development of environmental statistics: continuation of the comparative survey of national compilations of environmental statistics (secretariat), further consideration of the conceptual approaches to the development of frameworks, including links with social and economic statistics (secretariat with the assistance of national rapporteurs); informal meeting on the subject (1980/81).   | 1 | 1981 |
| (b) Statistical requirements and development of concepts, definitions and classifications in particular areas: statistics of land use (see project 12.5.4 below); concepts, definitions and classifications in statistics on (i) water use; (ii) quality of air and water; (iii) flora and fauna (secretariat, with the assistance of national rapporteurs) (1981 and 1982); statistical implications of ongoing work in the field of long-range transport of air pollutants (secretariat, with the assistance of national rapporteurs); statistics on costs of environmental protection (to be studied in the context of further work on the national accounts and balances); review of the results of the work of the ECE Task Force on indicators on environmental quality. Preparatory work for and informal meeting on statistics of water use and quality of water (1980/81), to be followed by a full meeting on this subject (1982). Meetings on other questions if required. | 3 | 1983 |



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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- (c) Methodological tools for use in the collection and compilation of environmental statistics; study of (i) sampling techniques over time and space; (ii) problems of aggregation of information obtained at large numbers of local measurement sites (secretariat, with the assistance of national rapporteurs); seminar on environmental statistics, with the following study programme: (i) data collection techniques; (ii) relationship between monitoring and survey data; (iii) implementation of a nomenclature for environmental statistics; (iv) use of environmental data in conjunction with social, demographic or economic data; and (v) questions of co-ordination between national bodies involved in the collection and compilation of environmental statistics (1980).

3

1984

### 12.5.3 Regional statistics

Description: Development of internationally comparable regional statistics; identification of subjects for which internationally harmonized regional statistics are required; development of harmonized concepts and classifications in these areas; exchange of views, experiences and practices on selected methodological issues.

Method of work: Preparatory work for and holding of a meeting (1981/82) to consider:

- (a) Methodological questions on the basis of country contributions on (i) needs for regional statistics and ways to satisfy them; (ii) estimation procedures used for the compilation and updating of regional statistics from incomplete data; (iii) methods used in regional projections and their relationship to national projections; (iv) generation of regional data through linkage of data systems; (v) uses of censuses, surveys and administrative records for purposes of producing regional statistics; (vi) potential for retrieving regional statistics from existing information systems; (vii) geographic classifications and coding structures used in the compilation of regional statistics; (viii) methods used in the presentation and dissemination of regional statistics;

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
(b) The need for internationally harmonized subjects and indicators (on the basis of a survey of nationally available regional statistics; by the secretariat, in co-operation with other international organizations).	2	1982

Further work to be determined in the light of the results of the meeting.

#### 12.5.4 Statistics of land use

Description: Adaptation of the draft standard international classification of land use to emerging information needs; consideration of land information needs in the context of ecological and land capability concerns; consideration of various methodological issues in the field of land information participation in the work of the UN Statistical Commission on the development of land information; co-operation with ECE Principal Subsidiary Bodies and international organizations concerned with the development of land information.

Method of work: (i) Elaboration of draft descriptions for the categories included in the draft international classification of land use (secretariat); (ii) submission of the draft descriptions to countries for detailed comments; (iii) finalization of descriptions (secretariat) and submission for approval by the Conference; (iv) further study of information needs with respect to land quality and land use change indicators (secretariat, with the assistance of national rapporteurs); (v) identification of information needs in the context of ecological and land capability concerns (secretariat, with the assistance of national rapporteurs) (vi) consideration of ways and means to accommodate the information needs; (vii) identification, preparation and dissemination of papers on methodological topics for an international exchange of experiences (secretariat, with the assistance of national rapporteurs). Meeting(s) on particular questions, when required.

3 1983

13. - STEEL

Estimated duration (in years)	Estimated termination year
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WORK AREA 13.1: MEDIUM-TERM AND LONG-TERM PROSPECTS

13.1.1 Long-term prospects for the iron and steel industry

Description: At its annual sessions the Committee will continue to consider long-term prospects for the steel industry, the demand for steel products, and the raw material and energy base for the steel industry, with a view to selecting specific issues for detailed studies.

Method of work: The Committee will consider these problems on the basis of studies and background papers, prepared periodically by the secretariat and/or by governmental rapporteurs, on specific aspects of the long-term problems as defined by the Committee. A meeting of Experts on Forecasting Methods to consider the possibility of devising a methodology for projection work on the steel industry will be convened when the Committee decides it to be necessary.

cont.

13.1.2 Co-operation with Senior Economic Advisers to ECE Governments on the over-all economic perspective for the ECE region up to 1990

Description: The Steel Committee will consider and comment upon the over-all economic perspective as elaborated by the Senior Economic Advisers to ECE Governments and will make available to the Senior Economic Advisers the results of its relevant work.

Method of work: The secretariat will prepare and submit to the Committee the documentation which will be needed for this purpose and will assist the Committee in carrying out its work on this project.

cont. 1980

13.1.3 Changes in quality requirements of steel demand

Description: The purpose of this project is to enable an exchange of experience and views to be held on recent and future changes in quality requirements in steel demand and on the way in which the iron and steel industry has reacted and will react to these new circumstances.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: A seminar will be held in 1982 in Geneva or in a country offering host facilities. A preparatory meeting will be held on 15 and 16 June 1981 to deal with matters relating specifically to the topic, organizational matters and, in particular, the presentation of papers

1

1982

WORK AREA 13.2: CURRENT DEVELOPMENTS AND PROSPECTS,  
INCLUDING INTERNATIONAL TRADE

13.2.1 Short-term trends and problems in the steel  
industry and the steel markets

Description: The Committee will, at its annual session, discuss short-term trends and problems in the steel industry and the steel markets. It will examine, in particular, major trends in production, consumption and trade in steel and steel-making raw materials, trends in investment and prices, as well as any other key questions which arise during the course of the year.

Method of work: The secretariat will prepare, in the first half of each year, a provisional version of an annual review as a basis for discussion in June by the Steel Committee's Working Party on the Steel Market. After consideration by the Working Party, the review will be published by the secretariat.

cont.

WORK AREA 13.3: SELECTED ECONOMIC AND TECHNOLOGICAL  
PROBLEMS

13.3.1 The use of light-weight sections in  
construction

Description: The Committee will examine problems relating to economic and technical aspects of the application of light-weight sections in construction.

Method of work: Will be established by the Committee when it is decided to initiate this project.

2

1984

13.3.2 Raw materials for steel-making

13.3.2.1 Utilization of low-grade iron ores

Description: Problems of efficiency of utilization of ores and technological use, resources of iron ores including low magnetic ores, will be considered by the Committee.

Method of work: To be decided by the Steel Committee at a later date.

2

1984

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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13.3.2.2 Demand for, and supply of, metallurgical coke

Description: The Committee decided at the forty-sixth session to begin work on this subject in 1979. At the ad hoc Meeting of Experts, on 21 and 22 February 1979, the agreed objectives would be to try to determine if there will be a surplus or shortage of metallurgical coke in the 1980s and if technological changes in iron, steel and coke production have recently affected or will affect the supply of and demand for, coke in the future.

Method of work: The second ad hoc meeting of Experts, held on 20 and 21 February 1980, agreed on the methods to be used by the secretariat to complete the study, the final draft of which will be submitted to the Steel Committee at its forty-ninth session in October 1981.

2	1981
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13.3.3 Economic problems related to the creation of steel plants using direct reduction

Description: The Committee will consider the way in which this topic will be analysed, taking into account the results of the Bucharest Seminar, 1976.

Method of work: Dependent on the definition of the topic.

2	1984
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13.3.4 Evolution of the specific consumption of steel

Description: The study will examine the specific consumption of steel by the main consuming sectors, its past evolution and future trends.

Method of work: Informal groups of rapporteurs will meet on 17 February and 17 June 1981 to draw up proposals concerning guidelines for the study and information gathering methods, and to review the work already in progress in a number of countries. The second ad hoc meeting is to be held on 19 and 20 October 1981.

2	1982
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WORK AREA 13.4: ENVIRONMENTAL AND RESOURCE-SAVING PROBLEMS

13.4.1 Protection against air and water pollution arising in the iron and steel industry

Description: As a follow-up to its study on "Problems of air and water pollution arising in the iron and steel industry", the Steel Committee will examine problems related to new and additional sources of pollution resulting from the employment of new

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
processes, higher point concentration of pollutants and continuing industrial expansion. Particular attention will be directed to abatement methods and cleaning facilities.		
<u>Method of work:</u> The secretariat will keep the Committee informed of the relevant activities of the Senior Advisers to ECE Governments on Environmental Problems and will prepare the necessary documentation which the Committee will require for its consideration of these problems.	2	1984
13.4.2 <u>Strategy for energy use in the iron and steel industry</u>		
<u>Description:</u> As a follow-up to its study on "Production and supply of metallurgical coke", the Steel Committee will examine the strategy of utilizing the various forms of energy in the iron and steel industry.		
<u>Method of work:</u> Czechoslovakia and the USSR have provided an outline for the study and a work programme has been proposed by CMEA. These documents have been circulated by the secretariat. An <u>ad hoc</u> meeting on this study scheduled for February 1981, will consider the proposals and decide on the manner in which the study is to be conducted.	2	1983
13.4.3 <u>Energy situation in the iron and steel industry</u>		
<u>Description:</u> The objectives of this seminar are the exchange of experience and views on energy conservation and the interchangeability of energy sources in the iron and steel industry, and future aspects up to 1990.		
<u>Method of work:</u> The Seminar will be held in Vienna (Austria), from 11 to 15 September 1981. The first informal preparatory meeting in June 1980 agreed upon a programme. A second informal preparatory meeting will take place on the morning of 19 February 1981.	1	1981
<u>WORK AREA 13.5: INDUSTRIAL CO-OPERATION</u>		
13.5.1 <u>Product specialization, including standardization in the iron and steel industry</u>		
<u>Description:</u> Will be defined in detail by a future session of the Steel Committee.		
<u>Method of work:</u> Dependent on the detailed definition of the topic.	2	1985

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 13.6: STATISTICS AND INFORMATION

13.6.1 Bulletins of steel statistics

Description: The Committee will guide the secretariat in its preparations and in the issue of statistical bulletins providing detailed yearly, quarterly and monthly steel statistics on a comparable basis.

Method of work: The Steel Committee's Working Party on Steel Statistics will examine, in co-operation with the Conference of European Statisticians, statistical and methodological questions relating to the development of the steel industry, assist the secretariat in establishing the methodology for current statistics, such as the method of calculation of apparent steel consumption, and promote the collection of steel statistics, paying particular attention to the improvement of statistics on stocks and actual consumption of steel. Bulletins will be issued annually and quarterly.

cont.

13.6.2 Bulletins on statistics of world trade in steel

Description: The Committee will direct the secretariat in its preparations and in the issue of annual statistics of world trade in steel.

Method of work: The Steel Committee's Working Party on Steel Statistics, acting in co-operation with the Conference of European Statisticians, will consider any questions arising in this connection.

cont.

13.6.3 Development of steel statistics

Description: New requirements for statistics will be considered by the Steel Committee at its annual sessions in connection with its current work.

Method of work: This is considered by the Working Party on Steel Statistics in co-operation with the Conference of European Statisticians.

cont.

13.6.4 Statistics on iron and steel scrap

Description: As a follow-up to its study on iron and steel scrap and its significance and influence on further developments in the iron and steel industries, the Steel Committee will issue statistics on iron and steel scrap every two years.

Method of work: The secretariat will collect scrap statistics by means of the questionnaire agreed on by the Committee.

cont.

14. - TIMBER

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 14.1: MEDIUM- AND LONG-TERM TRENDS AND PROSPECTS

14.1.1. Review of projections made in study "European Timber Trends and Prospects, 1950 to 2000" in relation to actual developments

Description: The Committee will keep under review long-term trends in production, trade, consumption and prices of forest products, comparing them with projections made in the long-term study, both to check the accuracy of the analyses presented in the study and in order to provide early warning of changes in trends, thus enabling Governments to review their long-term forest policies in the light of recent developments.

Method of work: The Committee will compare, on a continuing basis, real trends with the projections of the long-term study, as an integral part of its analyses of specific aspects of the forest products sector (notably under projects 14.1.2., 14.1.3., 14.2.1.). In addition, the secretariat will prepare an overall study which will compare real trends up to 1980 with projections. One aspect to which this study should pay particular attention is the effects of developments in the energy sector on supply and demand of forest products. The team of specialists on wood/energy questions (see project 14.5.2.7.) will make recommendations to the Committee on how this objective may best be achieved.

cont.

14.1.2. Medium-term trends in the structure and capacity of the wood-processing industries

14.1.2.1. The wood-based panels industries

Description: The Committee will review the structure and capacity of the wood-based panels industries in order to enable Governments to form their own industrial policies for the wood-based panels sector in the light of information on international conditions.

Method of work: A team of specialists will submit to the Joint FAO/ECE Working Party on Forest Economics and Statistics in 1981 proposals as to the scope, orientation, methodology and periodicity of future surveys. The Working Party will prepare proposals on future action.

cont.



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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14.1.2.2. The sawmilling industry

Description: The Committee will review the structure and capacity of the sawmilling industry in order to enable Governments to form their policies for the sawmilling industry in the light of information on international conditions.

Method of work: The Committee will undertake surveys at six-yearly intervals (next survey in 1984). A team of specialists will be convened in 1981 to submit recommendations to the fortieth session of the Timber Committee on the scope of the survey in 1984 and how it should be prepared.

cont.

14.1.3. Medium-term trends in the markets for specific forest products

Description: The Committee will review medium-term (3-5 years) trends in the production, consumption, trade and prices of major forest products so that Governments may be continuously informed of structural trends in the forest products markets of the ECE region.

Method of work: The secretariat will prepare one study annually, on a three-year rotation of subjects, as follows: Sawwood and sawlogs in 1981, 1984, etc.; pulpwood, wood for energy and miscellaneous roundwood in 1982, 1985, etc.; wood-based panels in 1983, 1986, etc. The secretariat will prepare at intervals as will be decided, a review of trends in roundwood production and supply.

cont.

14.1.4. Trends, prospects and policies in southern Europe

Description: The forest and forest industry policy and environmental problems facing countries in the Mediterranean area will be reviewed in the light of the long-term outlook for their forest economies, as depicted in European Timber Trends and Prospects, 1950 to 2000.

Method of work: The Committee will convene an ad hoc meeting in (year to be decided) on the production and marketing of products of specific interest to Mediterranean forestry, including cork and resin; and other such meetings, as the need is identified. All activities under this project will be carried out in co-operation with the FAO European Forestry Commission.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 14.2: CURRENT MARKET DEVELOPMENTS AND SHORT-TERM PROSPECTS, INCLUDING PROBLEMS RELATING TO INTERNATIONAL TRADE

14.2.1. Review of production, trade, consumption and prices of forest products

Description: The Committee will analyse on a continuous basis, short-term trends in the production, trade, consumption and prices of forest products and forecast short-term prospects, with a view to providing Governments and the forest products sector with accurate and up-to-date information and assessments, necessary for an orderly development of the supply/demand mechanism.

Method of work: The secretariat will prepare and publish annually a review of trends in forest products markets over the previous year, based on data supplied by Governments in connexion with project 14.5.1. The secretariat will present to the Committee's annual session the most recent available data on trends in the market for forest products, obtained from questionnaire returns, with a brief analysis of the situation. The Committee will review, at its annual session, short-term trends and prospects in the production, trade, consumption and prices of major forest products (sawn softwood, hardwoods, including tropical, pulpwood, coniferous logs and wood-based panels) on the basis of estimates prepared by delegations, for the current and following years. After the session, the secretariat will prepare and publish an analysis of short-term market trends and prospects, based on the Committee's discussions. cont.

14.2.2. Rationalization of the flow of forest products from the forest to the consumer, including transport and handling problems

Description: The Committee will review the distribution chain for forest products from the forest to the consumer, including transport and handling problems, and identify areas where it might recommend any action which it considers necessary to rationalize the flow of products and to increase efficiency with a view to facilitating international trade.

Method of work: The Committee's co-ordinator on transport and handling problems will make recommendations to the Committee for work in this field, as and when appropriate. cont.

14.2.3. Review of standardization activities

Description: The Committee will review regularly needs and priorities for standardization in the field of forest products as well as progress in its own standardization projects (14.2.4., 14.2.5., 14.2.6.). On the basis of this review, it will decide what activities it should undertake with a view to facilitating international trade in forest products by removing non-tariff barriers, and to furthering the rational and economic use of wood.

<u>Estimated duration</u> <u>(in years)</u>	<u>Estimated termination</u> <u>year</u>
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Method of work: The Committee will base its annual review on a report, and if necessary, recommendations by its co-ordinator in the field of standardization. Co-operation will be maintained with ISO and its appropriate Technical Committees. cont.

14.2.4. Standardization of stress grading of coniferous sawn timber

Description: The Committee will encourage the application of the ECE recommended standard by incorporation of its provisions into national standards, and undertake any further work necessary for the refinement of the recommended standard, with a view to ensuring the rational and economic use of, and to facilitating trade in, coniferous sawn timber.

Method of work: The Committee will convene a team of specialists to collect information and make proposals for research programmes, quality control programmes and marking systems for stress graded coniferous sawnwood. The team will, among other things, draft a set of guidelines for countries developing quality control programmes. The Committee will organize training courses to exchange experience on the application of the recommended standard and for the training of those responsible for sawnwood grading. An ad hoc meeting will be convened in 1981 to review and, if necessary, update the recommended standard. (Work to be linked to project 14.2.5.).

4

1982

14.2.5. Standardization of finger-jointing in structural coniferous sawn timber

Description: The Committee will encourage the application of the ECE recommended standard on finger-jointing in structural coniferous sawn timber, notably by incorporation of its provisions into national standards, and undertake any further work necessary for the refinement of the recommended standard, with a view to ensuring the rational and economic use of, and to facilitating trade in, structural finger-jointed coniferous sawn timber.

Method of work: The team of specialists (see project 14.2.4.) will collect information and make proposals about research programmes, quality control programmes and marking systems for finger-joints in structural coniferous sawnwood. The Committee will also organize seminars to exchange experience on the application of the recommended standard. An ad hoc meeting will be convened in 1981 to review and, if necessary, update the recommended standard. (Work to be linked to project 14.2.4.)

4

1982

14.2.6. Reduction of the number of standard dimensions of sawnwood entering international trade

Description: The Committee will formulate proposals for the reduction of the number of standard dimensions of sawnwood entering international trade, on the basis of ISO International Standard 3179 and in collaboration with ISO, with a view to facilitating international trade in sawnwood.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<p><u>Method of work:</u> The Committee will keep under review progress in the work being undertaken by other organizations, notably ISO, with a view to collaborating in such work as and when it considers it appropriate.</p>	3	1981

#### 14.2.7. Classification and definitions of forest products

Description: The Joint FAO/ECE Working Party on Forest Economics and Statistics, in co-operation with the Conference of European Statisticians, will revise the FAO Classification and Definitions of Forest Products, with a view to ensuring that it is in harmony with international multi-sector classifications and definitions (e.g. the CCC Harmonized System, ICGS, SITC), developments in technology and in industrial and trade practice and the appearance of new products.

Method of work: An ad hoc meeting will be convened in 1981 to consider and incorporate proposals by countries and competent organizations for modifications to the FAO Classification and submit a draft revised version to the thirteenth session of the Joint Working Party. The Working Party at its thirteenth session will consider whether it would be appropriate for it to undertake work on harmonizing classifications and definitions relating to furniture.

2

1982

#### WORK AREA 14.3: SELECTED ECONOMIC, TECHNOLOGICAL AND MANAGERIAL PROBLEMS

##### 14.3.1. Forest working techniques and training of forest workers

This project is covered by the activities of the Joint FAO/ECE/ILO Committee on Forest Working Techniques and Training of Forest Workers, which normally meets biennially (1982, 1984, etc.). Its task is to foster international collaboration on technical, economic and organizational aspects of forest working techniques and training of forest workers in logging and other forest operations; special attention is given to increasing the efficiency of labour, the reduction of the physical efforts of the worker, prevention of accidents, reduction of waste and the establishment of an adequate balance between technical, social and economic requirements and protection of the environment.

The project components are set out below under three main headings:

1. Silvicultural operations and general management aspects;
2. Wood harvesting and transport; and
3. Human aspects of forest operations.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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14.3.1.1. Silvicultural operations and general management aspects

14.3.1.1.1. Development and use of machinery and methods for stand establishment, including planting stock and equipment

Description: The Joint Committee will promote the exchange of information and further rational regeneration methods which do not damage the forest ecosystem by regularly reviewing machines, techniques and planting stock applied in afforestation and reforestation, with emphasis on site clearing, soil preparation and planting.

Method of work: Seminars and/or study tours will be organized at intervals. A seminar on machines and techniques in plant production will be held in 1983 in Czechoslovakia (subject to confirmation).

cont.

14.3.1.1.2. Forest fire prevention and control

Description: The Joint Committee will examine techniques and equipment used in forest fire control, as well as preventive measures, with a view to assisting Governments in these fields.

Method of work: A seminar will be held in Poland in 1981 and another in Portugal in 1985.

5	1985
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14.3.1.1.3. Methods of measurement of labour productivity

Description: The Joint Committee will review methods of assessing productivity of man and machines, and methods of measurement of standard times whereby to determine the relationship between changes in labour input and machine input and assess the effects and implications of replacing labour by machines.

Method of work: A team of specialists will discuss methods of measuring machine input in forestry operations, and submit its report to the fourteenth session of the Joint Committee.

2	1982
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14.3.1.1.4. Planning and management of forest operations

Description: The Joint Committee will study methods of planning forest operations, especially in the long term, taking into account the impact of environmental and social constraints on the planning and method work; it will also examine methods of assessing technical and economic accessibility of forest resources, so as to assist Governments in the planning and rational utilization of the resource.

Method of work: Proposals will be formulated by the Steering Committee at its fourth session on 1-2 December 1980.

2	1982
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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14.3.1.1.5. Development of methods and equipment for silvicultural operations and multiple use forestry under Mediterranean conditions

Description: The Joint Committee will promote the exchange of information and further the development of methods and techniques applicable to silvicultural operations and multiple use forestry under the particular conditions found in countries in the Mediterranean area, with a view to assisting the countries concerned in these fields.

Method of work: (a) A team of specialists will draw up proposals, to be approved by the Steering Committee, on topics requiring priority attention and how to carry them out and the time-table, and will submit a progress report to the Joint Committee at its fourteenth session in 1982;

(b) A seminar will be held in 1984 in Turkey (subject to confirmation) on machines and techniques for the conversion of degraded and low productivity woodlands to productive forests.

cont.

14.3.1.1.6. Standardization activities in the field of forestry, including standardization of concepts and terms used by the Joint Committee

Description: The Joint Committee will keep under review standardization activities in the field of forestry, notably forest machinery with a view to assisting countries in the development and safety in use of equipment and methods; and will establish definitions of currently used technical and economic concepts and terms, in order to facilitate exchange of information during meetings and on other occasions.

Method of work: (a) The Joint Committee will review at each session, on the basis of a report which ISO should be invited to submit, standardization work being carried out, and will maintain active co-operation with the responsible ISO sub-committees and other bodies concerned with standardization;

(b) For each seminar convened by the Joint Committee, lists of basic concepts and terms, with definitions, will be prepared by the host country and issued in the three official languages with the assistance of the rapporteur, and will subsequently be completed and disseminated within the framework of the Joint Committee.

cont.

Estimated duration (in years)	Estimated termination year
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#### 14.3.1.2. Wood harvesting and transport

##### 14.3.1.2.1. Development and use of logging machinery

Description: The Joint Committee will keep under review trends and prospects in the development and use of logging machinery taking into account specific conditions and cost/price relationships so as to encourage rational logging methods in flat, hilly and mountainous regions from the economic, ergonomic and environmental points of view.

Method of work: Seminars on selected items will be held at intervals: in 1982 in the USSR, on integrated handling and transport of wood raw material in harvesting operations; in 1983 in the German Democratic Republic, on silvicultural, technological, economic and other problems connected with the mechanization of thinning operations; in 1985 in the USSR, on mechanization of logging operations in mountainous regions (subject to the decision by the Joint Committee at its fourteenth session) (see also 14.3.1.2.3.)

cont.

##### 14.3.1.2.2. Maintenance of forest machinery

Description: The Joint Committee will promote the exchange of information on systems of maintenance of forest machinery, and further the rational use of such machines.

Method of work: A seminar on maintenance of forest machinery in large and small-scale operations will be held in 1981 in Sweden.

1

1981

##### 14.3.1.2.3. Forest roads and transport of wood raw material

Description: The Joint Committee will promote the exchange of information on methods of construction of forest roads and on the transport by road or other means of wood raw material, with a view to assisting countries to rationalize their transport systems and reduce costs.

Method of work: A seminar and study tour will be held in Norway in 1982, in conjunction with the fourteenth session of the Joint Committee, on planning of internal and external transport in forestry and its combination with forest operational activities; a seminar will be held in 1984 or 1985 in Finland, on wood transport and road construction in swampy areas (subject to the decision by the Joint Committee at its fourteenth session) (see also 14.3.1.2.1.)

cont.

##### 14.3.1.2.4. Terrain classification from the wood harvesting point of view

Description: The Joint Committee will review studies on terrain classification and forest accessibility, with a view to facilitating international comparisons on accessibility of forest resources.

Method of work: A team of specialists will prepare a draft of a primary, descriptive terrain classification, in collaboration with IUFRO and taking into account the work of the European Economic Community, and submit it to the fourteenth session of the Joint Committee in 1982, which will decide on further action.

2

1982

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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14.3.1.2.5. Compatibility of harvesting methods and equipment with silviculture and the environment

Description: The Joint Committee will review harvesting methods and equipment and compare these with the methods applied in silviculture so as to determine compatibilities and incompatibilities, taking into account environmental aspects.

Method of work: A preliminary descriptive list of harvesting methods and equipment will be prepared by a team of specialists from the point of view of compatibility with silvicultural methods and the environment for submission to the Joint Committee at its fourteenth session in 1982, when further action will be decided.

	2	1982
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14.3.1.2.6. Harvesting of wood for energy purposes

Description: The Joint Committee will review methods and equipment suitable for the production and harvesting of wood specifically destined for energy production, so as to determine the potential of the forest or special plantations to contribute economically to total energy supply.

Method of work: A review of developments, including the activities of other international organizations, such as the International Energy Agency, will be submitted by a team of specialists to the Joint Committee at its fourteenth session in 1982.

	1	1982
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14.3.1.3. Human aspects of forest operations

14.3.1.3.1. General questions of vocational training in forestry

Description: The Joint Committee will assist Governments in planning their national vocational training policies by keeping under review developments and trends in vocational training in forestry to raise the efficiency of forest operations and improve working practices with regard to safety and health.

Method of work: (a) Seminars will be organized at intervals on selected problems: in 1982 in the United Kingdom on the selection and training of machine operators; in 1984, in ... 1/ on vocational training problems specific to southern Europe;

	cont.	
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(b) A team of specialists will be established to follow up the recommendations of the seminar on vocational training and extension services for small-scale forest owners and farmers (held in 1980) and report to the fourteenth session of the Joint Committee in 1982;

	2	1982
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(c) A report on vocational training systems in forestry will be prepared by ILO and submitted to the fourteenth session of the Joint Committee in 1982.

	2	1982
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1/ Host country to be decided.



Estimated duration (in years)	Estimated termination year
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14.3.1.3.2. Specific problems of vocational training  
in forestry

Description: The Joint Committee will provide Governments with guidance in connection with their services dealing with specific problems of vocational training.

Method of work: (a) A team of specialists will prepare a report on possibilities and methods of rehabilitating injured, disabled or older forest workers and submit it to the seminar in Canada, in 1981 on occupational safety and health and applied ergonomics in highly mechanized logging operations (see also 14.3.1.3.3(a)) and to the fourteenth session of the Joint Committee in 1982;

2	1982
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(b) A team of specialists will start work after the fourteenth session of the Joint Committee and submit a report on further training of professional forest workers to the fifteenth session of the Joint Committee in 1984.

2	1984
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14.3.1.3.3. General questions of applied ergonomics,  
safety and health in forest operations

Description: The Joint Committee will help Governments in their national health and employment planning by keeping under review developments and trends in ergonomics applied to forestry, occupational safety and health, with a view to promoting safer working habits, preventing occupational injuries and diseases, increasing work performance and forest workers' satisfaction with their jobs.

Method of work: (a) Seminars or training courses will be organized at intervals on a selected problem in the field of ergonomics applied to forestry: in 1981, in Canada, on occupational safety and health and applied ergonomics in highly mechanized logging operations; in 1983, in ... 1/ on occupational safety and health in forest work; in 1985, in ... 1/ on ergonomics in forest work.

cont.

(b) A team of specialists will start work in 1983 and submit a report on occupational health services in forestry to either the sixteenth session of the Joint Committee or another meeting (subject to the decision by the Joint Committee at its fifteenth session in 1984).

3	1986
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1/ Host country to be decided.

Estimated duration (in years)	Estimated termination year
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14.3.1.3.4. Specific problems of applied ergonomics,  
safety and health in forest operations

Description: The Joint Committee will study specific problems related to ergonomics, safety and health in forest operations with a view to improving working methods and recommending safety standards in various operations.

Method of work: A team of specialists will start work after the fourteenth session of the Joint Committee and submit a report on pesticides - health hazards and protection, to the fifteenth session of the Joint Committee in 1984.

2	1984
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14.3.2. Utilization of tropical hardwoods

Description: The Committee will review the utilization of tropical hardwoods with a view to analysing patterns and trends in the demand for these products and to identifying opportunities for expanding trade with developing countries.

Method of work: Co-operation will be maintained with UNCTAD and FAO in their activities relating to markets for tropical timber.

cont.

14.3.3. Economic and technical developments in  
the furniture industry

Description: The Committee will further the exchange of information on economic and technical developments in the furniture industry, with a view to assessing in quantitative and qualitative terms the use of forest products in that industry and the trends and prospects in the demand for forest products for that sector.

Method of work: The Committee will decide on further work in this field at its thirty-ninth session, on the basis of the report of the symposium on economic and technical developments in the furniture industry and of proposals to be submitted by Governments.

1	1981
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14.3.4. Modernization in the wood-based panels  
industries

Description: The Committee will further the exchange and dissemination of scientific, technological and economic information on modernization in the wood-based panels industries.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The Committee will decide on further work in this field at its thirty-ninth session, on the basis of the report of the symposium on wood-based panels in the 1980s: economic and technical perspectives, and of proposals to be submitted by Governments.

1	1981
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14.3.5. Review of progress made in the chemical processing of wood (other than for pulp and paper) and the potential of the use of wood for chemical products

Description: In conjunction with the Chemical Industries Committee, the Committee will keep under review, from the technical and economic point of view, progress made in the chemical processing of wood (other than for pulp and paper) with a view to improving the utilization of by-products of the wood processing industries, and to assessing potential demand from the chemical industry for wood raw material, as well as the effect any increase would have on the supply/demand balance for forest products in the ECE region and the availability of raw material for traditional wood-using industries.

Method of work: The Joint FAO/ECE Working Party on Forest Economics and Statistics at its thirteenth session will assess the relative importance of the use of wood in chemical processing and the potential significance of this use of wood for the forest products sector. The team of specialists on wood/energy questions will consider whether they should undertake any work in this field. The Committee will decide on future work at its thirty-ninth session, on the basis of the above.

1	1981
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WORK AREA 14.4: ENVIRONMENTAL AND RESOURCE CONSERVATION PROBLEMS

(All the Committee's activities in this work area will be carried out in co-operation with the Senior Advisers to ECE Governments on Environmental Problems.)

14.4.1. Quantification and evaluation of the environmental benefits of forests

Description: The Joint FAO/ECE Working Party on Forest Economics and Statistics will examine methods of quantifying and evaluating the environmental benefits of forests with a view to assessing forests' contribution to society, to calculating compensation for the environmental services of forests and to facilitating comparisons between countries.

Estimated duration (in years)	Estimated termination year
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Method of work: A draft enquiry on environmental and non-wood uses of forests will be finalized after being reviewed by countries at an ad hoc meeting in 1981. Countries will be invited to submit results of studies quantifying the benefits of non-wood uses of forests for consideration by the thirteenth session of the Working Party, which will make proposals for further work in this field. Project linked with project 14.5.2.3.

2	1981
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14.4.2. Energy conservation and self-sufficiency in the mechanical wood-processing industries

Description: The Committee will encourage the exchange of information in this field, with a view to furthering the conservation of energy and, where appropriate, the increase of self-sufficiency in the mechanical wood-processing industries.

Method of work: A seminar on energy conservation and self-sufficiency in the sawmilling industry, will be held in 1982, in the Federal Republic of Germany (subject to confirmation). The Committee will decide on the basis of the results of the seminar whether further seminars should be organized.

2	1982
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WORK AREA 14.5: COLLECTION, EXCHANGE AND DISSEMINATION OF INFORMATION, INCLUDING IMPROVEMENT AND HARMONIZATION OF STATISTICS (IN CO-OPERATION WITH FAO)

14.5.1. Timber Bulletin for Europe

Description: The Committee will collect statistics on production, trade and prices of forest products, with a view to providing Governments and the forest products sector with data on the basis of which to formulate policies and make decisions.

Method of work: The secretariat will publish, twice a year, the Timber Bulletin for Europe, containing annual and quarterly statistics on production, trade and prices of forest products, collected from Governments by means of quarterly questionnaires; and will publish a supplement, four times a year, of monthly prices of forest products and related data.

cont.

Estimated duration (in years)	Estimated termination year
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14.5.2. Selected problems of economics and statistics of forestry and forest products

This project, together with projects 14.5.3., 14.5.4. and 14.5.5. (part), is carried out by the Joint FAO/ECE Working Party on Forest Economics and Statistics which normally meets biennially (1981, 1983, etc.). It co-operates with the Conference of European Statisticians.

14.5.2.1. Organization and periodicity of statistical data collection and dissemination

Description: The Working Party will review periodically the Committee's programme of collection and dissemination of statistical data, to ensure that it corresponds with the needs of Governments.

Method of work: Periodic reviews will be undertaken by the Working Party, which will formulate proposals for improving the Committee's programme of collection and dissemination of statistical data with regard to its organization, method of collection, periodicity, and the improvement of the accuracy and comparability of data obtained from and used by Governments. At its thirteenth session, the Working Party will examine the possibility of collecting data on stocks of forest products.

cont.

14.5.2.2. Conversion factors

Description: The Working Party will review the conversion factors for forest products applicable to individual countries, in order to facilitate international comparison of yields and to ensure that the conversion factors used by the secretariat in its analyses reflect current technology.

Method of work: The Working Party will review at four-yearly intervals (1981, 1985, etc.) conversion factors communicated by Governments in reply to a questionnaire.

cont.

14.5.2.3. Forest resource analysis

Description: The Working Party will review methods of forest inventory used by Governments and by the secretariat to ensure that all parameters relevant to measuring actual productive potential of the forest, as well as parameters measuring change, both for wood and non-wood benefits, are taken into account and that the methods adopted correspond as closely as possible to the needs of all users.

Estimated duration (in years)	Estimated termination year
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Method of work: Outlines of enquiries on forest resources for wood and fibre production and on environment and non-wood uses of forests (see project 14.4.1.) will be submitted to countries to ascertain the availability of data and the form in which they are available. Draft enquiries will be prepared on the basis of countries' replies, examined by an ad hoc meeting and submitted to the thirteenth session of the Working Party, before being finalized and dispatched to countries.

4

1984

#### 14.5.2.4. Labour statistics

Description: The Working Party, in co-operation with the Joint FAO/ECE/ILO Committee on Forest Working Techniques and Training of Forest Workers, will study labour input, average wage rates and earnings in forestry, with a view to providing more data on cost trends and a basis for comparison of employment and earnings.

Method of work: A team of specialists will review the possible orientation of future work on labour economics and statistics, on the basis of the report published in 1980 and report to the thirteenth session of the Working Party, which will make proposals on the direction of future work.

2

1981

#### 14.5.2.5. Utilization of forest products by end-use sectors

Description: The Working Party will collect information on the utilization of forest products by end-use sectors and undertake analyses of utilization trends and patterns which will be submitted to the Timber Committee to form part of its continuing analysis of medium- and long-term market developments, with a view to providing Governments with information necessary for the elaboration of their forest products utilization policies.

Method of work: End-use statistics will be collected periodically by means of enquiries and analyses carried out by the Working Party, which will consider at its thirteenth session appropriate directions for activities in this field and methods of work.

2

1983

#### 14.5.2.6. Forest fire statistics

Description: The Working Party will improve the exchange of information on forest fires, their causes and methods of prevention and protection and the costs involved.

Estimated duration (in years)	Estimated termination year
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Method of work: At its thirteenth session the Working Party will review the results of an enquiry and draw up proposals concerning the regular collection of statistics in this field.

2	1981
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14.5.2.7. Information base on the use of wood for energy

Description: The Working Party will review the information base for the use of wood for energy, with a view to providing Governments with a more accurate and complete assessment of the present situation and recent trends. This review will cover levels and patterns of consumption and prices for conventional fuelwood, industrial residues synthetic fuels and other wood-derived energy.

Method of work: A report on this subject will be prepared by the secretariat and the team of specialists on wood/energy questions. The Working Party will make proposals at its thirteenth session in 1981, on the basis of this report, on the future direction of work in this area.

3	1983
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14.5.3. Studies of selected economic problems

14.5.3.1. Economic aspects of the fuller use of the forest biomass

Description: The Working Party will study the economic aspects of the fuller use of the forest biomass with a view to determining the potential for the forest resource to meet the demand for raw material from the different wood-using industries and consumption sectors.

Method of work: A team of specialists will collect and review information in this field and present a report to thirteenth session of the Working Party.

2	1981
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14.5.3.2. Economic aspects of afforestation and reforestation

Description: The Working Party will study the economic aspects of afforestation and reforestation with the object of comparing the efficiency of different methods and the relative costs and returns in different countries under different conditions.

Estimated duration (in years)	Estimated termination year
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Method of work: Taking account of the relevant work of the Joint FAO/ECE/ILO Committee on Forest Working Techniques and Training of Forest Workers and collaborating where appropriate (see project 14.3.1.1.1.), a team of specialists will collect and review information on the economics of afforestation and reforestation and present a report to the fourteenth session of the Working Party.

2	1983
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14.5.3.3. Economic aspects of the introduction of new forest machines and equipment

Description: The Working Party will study the economic aspects of the introduction of new forest machines and equipment with the object of assessing their productivity and return on investment in different countries and under different operating conditions.

Method of work: Taking account of the relevant work of the Joint FAO/ECE/ILO Committee on Forest Working Techniques and Training of Forest Workers and collaborating where appropriate (see project 14.3.1.2.1.), a team of specialists will collect and review information on the economics of introducing new machines and equipment into forestry and report to the thirteenth session of the Working Party.

2	1981
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14.5.4. Transfer of economic and statistical methods and experience in the forest and forest products sector

Description: The Working Party will contribute to the building up of statistical services in countries inside and outside the ECE region through the transfer of know-how and experience in methods of data collection, assembly and dissemination in the forest and forest products sector.

Method of work: A team of specialists will draw up proposals for the consideration of the Working Party's thirteenth session.

2	1981
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Estimated duration (in years)	Estimated termination year
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14.5.5. Dissemination and exchange of general information and experience

Description: The Committee will further the dissemination and exchange of information and experience on selected themes within its area of competence, by dissemination of statistical and other information on countries' forestry and forest products sector, and by organizing annual study tours at the invitation of the countries concerned with a view to making available to Governments and the forest products sector experience gained in individual countries.

Method of work: A study tour will be held in the United States in 1981 and in Czechoslovakia in 1982. 1/ Country forest and forest products profiles will be prepared by the secretariat, in collaboration with the Governments of countries concerned, and published at five- to six-yearly intervals. A Yearbook describing briefly the Committee's activities over the past year will be issued annually.

cont.

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1/ Host countries to be decided for the years from 1983 to 1985 inclusive.

15. - TRADE 1/

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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WORK AREA 15.1: ANALYSIS AND REVIEW OF RECENT AND  
PROSPECTIVE TRADE TRENDS, POLICIES  
AND PROBLEMS

15.1.1 Review of short- and long-term trade trends,  
prospects and policies: changes and problems  
affecting intra-regional trade

Description: The Committee will review, at its annual sessions, trade trends and prospects with a view to exchanging information and experience useful to policy-makers in formulating their economic and trade policies. It will, at the same time, examine changes and problems in trade policies affecting intra-regional trade with a view to obtaining accurate and up-to-date information on the general policy framework affecting the development of trade.

Method of work: Participants in the annual sessions of the Committee will give accounts of bilateral and regional developments of relevance to trade between member countries, and will review recent trends policies and problems in intra-regional trade including general trade problems of the member countries which are developing from the economic point of view. Review will also be presented by the secretariat, in, inter alia, the Economic Bulletin for Europe for consideration by the Committee. A special chapter in the Bulletin will be devoted to trends, policies and problems in the development of trade of the latter member countries. The secretariat will prepare, on its own responsibility, a series of short monographs characterizing the development of the intra-regional trade of individual ECE countries, to be made available as background information to the annual sessions of the Committee. In the preparation of these monographs the secretariat will be assisted by the competent authorities of ECE countries making available to it statistical and other trade-related information relevant to the experience of individual countries in the development of intra-regional trade. An ad hoc Meeting on compensation trade will be organized in 1981. The secretariat will convene a preparatory meeting which will decide on the mandate and the provisional agenda for the ad hoc Meeting.

cont.

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1/ In this connection, reference should be made to operative paragraphs 9-12 of resolution 1 (XXXVI) which will be brought to the attention of the Committee on the Development of Trade at its thirtieth session.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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15.1.2 Review of the interrelationship between economic growth, structural and technological change, and trade

Description: The Committee will examine these effects and will exchange information and experience useful to policy-makers in formulating their economic and trade policies.

Method of work: Special attention will be given to these effects in the country monographs prepared by the secretariat (see project 15.1.1).

cont.

15.1.3 Review of trade and economic co-operation agreements

Description: The Committee will examine progress made and techniques used in these agreements with a view to exchanging relevant information and experience.

Method of work: Participants in the annual sessions of the Committee will comment on these agreements.

Reference is made to project 15.1.7.

15.1.4 Review of developments in sub-regional economic groupings affecting intra-regional trade

Description: The Committee will consider these developments in order to exchange information and experience and to identify problems.

Method of work: A revised outline of a study will be prepared by the secretariat, in consultation with the secretariats of CMEA, EEC and EFTA, taking into account comments made at the twenty-ninth session of the Committee for consideration by the Committee at its thirtieth session.

2

1982

15.1.5 Review of inter-regional trade with special reference to the expansion of trade with the developing countries

Description: On the occasion of the general discussion at its annual sessions, the Committee will pay attention to developments in interregional trade and, in particular, in trade with developing countries.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Studies on selected problems, as determined by the Committee, for consideration at any of its sessions will be prepared by the secretariat in co-operation with the secretariat of UNCTAD, of the other regional commissions or of other bodies in the United Nations system on the basis of their relevant decisions and of studies prepared by them. Similarly, as for the joint ECE/ECLA study, the ECE secretariat will approach the secretariats of other regional commissions in order to find the ground for joint studies on interregional trade, taking into account at the same time Commission decision J (XXXV).

cont.

15.1.6 Co-operation with the Senior Economic Advisers to ECE Governments on the Over-all Economic Perspective for the ECE Region up to 1990

Description: The Committee will consider and comment upon the Over-all Economic Perspective drawn up by the Senior Economic Advisers to ECE Governments and will bring to the attention of the Senior Economic Advisers the results of its own relevant work in accordance with Commission decision G (XXXV).

Method of work: The secretariat will keep the Committee informed of the work of the Senior Economic Advisers to ECE Governments and of further possibilities for co-operation.

cont.

15.1.7 Maintenance of a Register of long-term agreements between countries having different economic and social systems in the field of trade, economic, industrial and technological co-operation

Description: The Committee will consider at its annual sessions changes in the number, scope and content of these agreements.

Method of work: The secretariat will prepare annually an up-to-date Register of long-term agreements on the basis of the texts of these agreements to be notified by ECE Governments by 30 June each year. The secretariat will analyse the material and present studies to enable the Committee to follow new developments.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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15.1.8 Study on the possibilities of creating a multilateral system of notification of laws and regulations concerning foreign trade and changes therein

Description: The Committee will examine the possible scope and functioning of such a system in order to assess whether its creation would be practicable and desirable.

Method of work: The line of action suggested in document TRADE/R.406 will be followed. The secretariat will draft a simplified questionnaire designed to elicit comparable replies regarding primary and secondary sources of information relating to trade laws and regulations and changes therein. The secretariat will also prepare, for consideration by the Committee at its thirtieth session, a survey of recent technical and institutional trends affecting the establishment of information systems relevant to foreign trade.

cont.

WORK AREA 15.2: IDENTIFICATION OF ALL KINDS OF OBSTACLES TO THE DEVELOPMENT OF TRADE AMONG ECE MEMBER COUNTRIES, ESPECIALLY IN EAST-WEST TRADE, AND ENDEAVOURS TO REDUCE OR PROGRESSIVELY ELIMINATE THEM GIVING DUE ATTENTION TO MEASURES FOR THE PROMOTION OF TRADE AND DIVERSIFICATION OF ITS STRUCTURE

15.2.1 Maintenance of an up-to-date Inventory of all kinds of obstacles to the development of trade

Description: To assist the Committee in its work towards identifying all kinds of obstacles to the development of trade, an up-to-date Inventory of those obstacles will be maintained by the secretariat on the basis of information provided by Governments.

Method of work: Notification of appropriate information by ECE Governments to the secretariat by 31 May each year and notification of comments on such information by 30 September each year (see also project 15.2.2). The Committee will consider, at its annual sessions, an Inventory transmitted by the secretariat, based on these notifications.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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15.2.2 Identification of all kinds of obstacles to the development of trade and examination of the question in which way steps can be taken within ECE for reduction or progressive elimination of those obstacles

Description: All kinds of existing obstacles to the development of trade will be reviewed by the Committee at intervals to be determined by the Committee with a view to finding ways for their reduction or progressive elimination. The Committee will, in appropriate cases, prepare mutually-acceptable proposals and recommendations in this field.

Method of work: Background material facilitating the identification of all kinds of obstacles to trade, such as the Inventory of all kinds of obstacles to the development of trade, will be submitted by the secretariat and/or by member Governments. On the basis of such identification the Committee, at intervals to be determined, will consider in which way steps can be taken within the ECE for the reduction or progressive elimination of those obstacles. The up-dated and consolidated Inventory of all kinds of obstacles to the development of trade will be discussed by an ad hoc Meeting to be held in 1981. The mandate and provisional agenda of this ad hoc Meeting will be decided upon at a preparatory meeting to be convened by the secretariat.

cont.

15.2.3 Preparation of proposals and recommendations on measures for the promotion of trade and the diversification of its structure

Description: The Committee will examine, at intervals to be determined by the Committee, means of promoting trade and diversifying its structure, with a view to preparing proposals and recommendations conducive to the achievement of these aims.

Method of work: Consideration in the Committee, at intervals thus determined, of proposals made by Governments with a view to the drawing up of agreed recommendations by the Committee. Background material will be prepared by the secretariat, as required, for consideration by the Committee.

cont.

15.2.4 Promotion, collection and dissemination of economic, commercial and relevant administrative information

Description: The Committee will consider, at its annual sessions, means of promoting, collecting, publishing and disseminating economic, commercial and relevant administrative information in order to create better conditions for the development of trade.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Consideration by the Committee of relevant proposals put forward by delegations during the ad hoc Meeting on Information relating to Trade held in 1980. Background studies will be prepared by the secretariat, as required.

cont.

WORK AREA 15.3: THE DEVELOPMENT OF MARKET INFORMATION,  
MARKETING TECHNIQUES AND IMPROVED  
BUSINESS CONTACTS

15.3.1 International co-operation in the field of trade  
promotion, including marketing

Description: The Committee will examine, at its annual sessions, means of developing and exchanging information and experience in the field of trade promotion, including marketing, in order to facilitate the development of trade.

Method of work: Drawing up of relevant proposals and recommendations by the Committee. The secretariat will prepare studies on selected problems as required by the Committee. The secretariat will report on the development of co-operation with relevant international organizations and institutions, especially the ICC Liaison Committee with Chambers of Commerce in Socialist Countries.

cont.

15.3.2 Convening of Seminars on East-West Trade Promotion,  
Marketing and Business Contacts

Description: Seminars will be convened by the Committee to deal with specific themes relating to east-west trade promotion, marketing and business contacts. The theme of each Seminar will be determined by the Committee or by a preparatory meeting, as appropriate.

Method of work: Reports and case-studies will be prepared by government experts and by the secretariat for consideration at Seminars; the proceedings, conclusions and recommendations of the Seminars will be widely disseminated. A Sixth Seminar on East-West Trade Promotion, Marketing and Business Contacts will be organized, possibly in 1982. Its precise theme and preparation will be determined by a preparatory meeting to be convened early in 1981.

cont.

15.3.3 Publication and dissemination of information to  
help businessmen in commercial contacts

Description: The Committee, at bi-annual intervals, will review and give guidance to the secretariat concerning the publication and dissemination of ECE information materials to assist businessmen in their commercial contacts.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: Following the Committee's guidance and on the basis of information supplied by Governments, the secretariat will publish lists of directories and, where possible, organizational charts of firms and organizations concerned with foreign trade.

15.3.4 ECE symposia at international trade fairs

Description: Organization by the ECE of special meetings or symposia for exchange of information in connexion with international fairs held in the ECE region.

Method of work: Delegations interested in participating in the organization of such symposia will submit concrete proposals for the consideration of the Committee.

cont.

WORK AREA 15.4: PROMOTION OF TRADE THROUGH INDUSTRIAL CO-OPERATION

15.4.1 Analysis of short- and long-term trends and prospects for industrial co-operation

Description: The Committee will examine short- and long-term trends and prospects for industrial co-operation including all kinds of obstacles, 1/ with a view to exchanging information and experience useful to policy-makers in establishing policies regarding industrial co-operation.

Method of work: Studies, including the periodic up-dating of the statistical part of the Analytical Report on Industrial Co-operation among ECE countries, will be considered by the Committee at its annual sessions.

cont.

15.4.2 Examination of proposals and recommendations designed to create favourable conditions for industrial co-operation

Description: The Committee will examine means which could create more favourable conditions for industrial co-operation, giving due attention to proposals made at the ad hoc Meeting on Industrial Co-operation held in 1980.

Method of work: Consideration by the Committee of relevant proposals put forward at the ad hoc Meeting held in 1980. Background material will be prepared by the secretariat, as required.

cont.

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1/ Obstacles to trade are dealt with in work area 15.2.



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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15.4.3 Examination of means of improving the provision of information to those concerned on general conditions for the promotion of trade through industrial co-operation and guidance on the preparation of contracts in this field

Description: The Committee will examine annually the range of information requirements of those engaged in industrial co-operation, as well as the adequacy of existing information flows and channels, with a view to undertaking measures to improve the provision of relevant information and guidance on the preparation of contracts in this field.

Method of work: On the basis of material provided by member Governments, as well as of secretariat studies, the Committee and/or ad hoc meetings will consider the existing international information channels and possible means of improving them. Relevant proposals and recommendations will be made by the Committee.

cont.

15.4.4 Collection and dissemination of information relevant to the promotion of trade through industrial co-operation, in particular the laws and regulations, including those relating to foreign exchange, general orientation of national economic plans and programmes as well as programme priorities and economic conditions of the market

Description: The Committee, at its annual sessions, will examine means of improving the dissemination of such information through the ECE, inter alia, in the form of special country manuals, in order to ameliorate the knowledge of existing possibilities for the development of industrial co-operation.

Method of work: Consideration by the Committee and drawing up of appropriate proposals and recommendations by the Committee on the basis of studies by the secretariat. A special study will be carried out on the possibilities of publishing special country manuals, including costs.

cont.

15.4.5 Preparation of a Guide for drawing up international engineering contracts, including related aspects of technical assistance

Description: A Guide for drawing up International engineering contracts, including related aspects of technical assistance will be prepared for the use of enterprises and institutions engaged or interested in concluding such contracts.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<u>Method of work:</u> Meetings of the Group of Experts on International Contract Practices in Industry, working on the basis of preliminary drafts and background information prepared by the secretariat and by government rapporteurs.	2	1981

WORK AREA 15.5: PROMOTION OF THE DEVELOPMENT OF TRADE THROUGH THE IMPROVEMENT OF INTERNATIONAL TRADE PROCEDURES, CONTRACT PRACTICES, TRADE PRACTICES OF STANDARDIZATION AND COMMERCIAL ARBITRATION

15.5.1 Facilitation of international trade procedures

Description: The Committee will examine activities, practices and formalities involved in collecting, presenting, communicating and processing data required for the practical conduct of international trade. The activities will be divided into:

- 15.5.1.1. facilitation of international trade procedures and documentation; and
- 15.5.1.2. trade data elements and automatic data interchange.

Method of work: The Committee will review annually the work of the Working Party on Facilitation of International Trade Procedures and its Groups of Experts. In the Working Party, recommendations concerning the facilitation of international trade procedures will be agreed on the basis of studies undertaken by the secretariat and/or by government rapporteurs and discussions in the respective Groups of Experts. A quarterly information bulletin, Trade Facilitation News, is issued by the secretariat. The secretariat will continue to undertake this work in close co-operation with the Special Programme on Trade Facilitation (FALPRO) in UNCTAD.

cont.

15.5.2 Preparation and periodic revision of Guides and general conditions relating to contracts for international commercial transactions

Description: The Committee will follow the work on the preparation of general conditions relating to standard contracts for international commercial transactions in selected fields.

Method of work: The Committee will review annually the work undertaken in this field by the Group of Experts on International Contract Practices in Industry. The secretariat will keep the Committee informed of the work of other bodies.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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15.5.3 Examination of trade aspects of international standardization and certification procedures

Description: The Committee will examine relevant aspects of standardization and certification procedures.

Inter alia, attention will be paid to the promotion of international agreements and other appropriate arrangements on acceptance of certificates of conformity with standards and technical regulations.

Method of work: For consideration by the Committee, studies will be prepared by the secretariat on the basis of work undertaken by the Principal Subsidiary Bodies concerned and the Meetings of Government Officials Responsible for Standardization Policies, as well as work undertaken by other international bodies.

cont.

15.5.4 Preparation of a Manual on licensing procedures and related aspects of technology transfer

Description: The Committee, in co-operation with the Senior Advisers to ECE Governments on Science and Technology, will complete, by including new country chapters to be transmitted by ECE Governments, and will maintain up to date, the Manual on licensing procedures and related aspects of technology transfer for the information of enterprises engaged in the licensing of technology or its transfer within the ECE region.

Method of work: The Manual will be completed by the secretariat on the basis of new country chapters to be transmitted by ECE Governments. On the basis of information received from Governments the secretariat will prepare amendments for inclusion in all language versions of the Manual. A Seminar on Trends in Different Forms of Technology Transfer and their Impact on the Development of Trade and Economic Co-operation will be organized in 1981 in co-operation with the Senior Advisers to ECE Governments on Science and Technology.

cont.

15.5.5 International commercial arbitration

Description: The Committee will follow relevant developments concerning international commercial arbitration, especially developments linked to the use of the Special Committee envisaged in Article IV of the European Convention on International Commercial Arbitration, 1961; and the Arbitration Rules of the United Nations Economic Commission for Europe 1966. The secretariat will prepare and issue at prescribed intervals a list of the members of the Special Committee mentioned above.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The secretariat will provide information as required. Care will be taken to avoid duplication of any work pursued under this project and related work undertaken by the United Nations Commission on International Trade Law (UNCITRAL).

cont.

WORK AREA 15.6: TRADE PROBLEMS OF THE MEMBER COUNTRIES OF THE ECE WHICH ARE DEVELOPING FROM THE ECONOMIC POINT OF VIEW

15.6.1 Review of intra-regional trade taking into account the interests of the member countries of the ECE which are developing from the economic point of view as referred to in paragraph 234 of the Commission's Annual Report on its thirty-first session.

Description: The Committee will examine, at its annual sessions, the expansion of intra-regional trade with these member countries.

Method of work: The Committee will base its examination mainly on information given in the special chapter of the Economic Bulletin for Europe and on the country monographs (see project 15.1.1 above) as well as on other specific studies to be prepared by the secretariat following an additional approach, that of grouping ECE countries by comparable economic level. It will also base its examination on the wider scope of the study on migrant workers which will include other aspects of the economic development of these countries, taking into account Commission decision H (XXXIV).

cont.

15.6.2 Trade problems specific to the member countries of the ECE which are developing from the economic point of view and consideration of action in respect of identified problems

Description: The Committee, at its annual sessions, will identify and examine trade problems specific to the above-mentioned countries and will consider what action could be taken within the ECE with a view to finding appropriate solutions to these problems.

Method of work: Studies will be prepared by the secretariat with the help of government rapporteurs on problems selected by the Committee for its consideration.

cont.

<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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15.6.3 Measures to improve trade promotion efforts of the member countries of the ECE which are developing from the economic point of view

Description: The Committee, at its annual sessions, will examine trade promotion efforts, undertaken by these countries in selected fields with a view to establishing measures which could improve the effectiveness of their trade promotion.

Method of work: Studies will be prepared by the secretariat with the help of government rapporteurs and in co-operation, as appropriate, with UNCTAD and the International Trade Centre for consideration by the Committee. The secretariat in co-operation with the secretariats of UNCTAD and ITC will also provide assistance, at the request of the Government concerned, in the trade promotion efforts of these countries, including requests for assistance from the UNDP either on a national or a regional basis.

cont.

15.6.4 Study of the potential scope and methods of closer commercial and industrial co-operation among the member countries of the ECE which are developing from the economic point of view as well as between these countries and the other ECE countries and the non-member Mediterranean countries in accordance with Commission decision Q (XXXIV)

Description: The Committee will examine the potential scope and methods of this co-operation with a view to making proposals and recommendations aimed at strengthening commercial and industrial co-operation amongst these countries.

Method of work: Studies will be prepared by the secretariat, as required, for consideration by the Committee.

cont.

16. - WATER PROBLEMS

	Estimated duration (in years)	Estimated termination year
<u>WORK AREA 16.1: LONG-TERM PROSPECTS AND PLANNING OF THE WATER ECONOMY</u>		

16.1.1 Review and analysis of existing situation and future prospects regarding the utilization of water resources and water pollution control in the ECE region

Description: The Committee will keep under review the present and prospective situation regarding water-resources use and pollution control in the region, in order to promote co-operation between ECE Governments in water resources management by a systematic exchange of information and experience in this particular field.

Method of work: At each plenary session, the Committee will exchange views on major trends and policies with regard to integrated water resources management. At three- to five-year intervals, Governments will prepare country monographs, including statistical data on water use, water conservation and pollution control, along common guidelines adopted by the Committee. The secretariat will prepare a consolidated report on the basis of country monographs. The next report will be prepared in 1984/1985.

cont.

16.1.2 Analysis of methods of determining the degree of utilization of water resources of river basins and of legislative and administrative action needed at different stages of development

Description: The Committee will review the methodology of determining the degree of utilization of water resources of a river basin, including both quantitative and qualitative aspects, as a follow-up to the Seminar on Long-term Planning of Water Management at Zlatni Piasatzi (Bulgaria, 1976). The Committee will further analyse the administrative and legislative action for integrated water planning of different stages. Guidelines for proper long-term river basin development, including conceptual and methodological aspects, might later be developed.

Method of work: Government rapporteurs from Hungary and Yugoslavia will prepare a report on the subject matter taking into account the comments and suggestions made by ECE member Governments. A draft report will be considered by the Group of Experts on Aspects of Water Quality and Quantity at its ninth session.

Estimated duration (in years)	Estimated termination year
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16.1.3 International Drinking Water Supply and Sanitation Decade

Description: The Committee will make a contribution to the implementation, at the regional level, of the International Drinking Water Supply and Sanitation Decade, recommended by the United Nations Water Conference.

Method of work: Details are given under each project component.

16.1.3.1 Drinking water supply and effluent disposal systems

Description: The Committee will examine problems associated with water supply and effluent disposal systems in (i) areas with seasonal population fluctuations; (ii) low-populated areas and in (iii) densely-populated areas and, in particular, in old town centres, in order to ensure economic and safe supply of water and environmentally-acceptable means of sewage disposal and treatment.

Method of work: A seminar will be held in 1982. The programme of the Seminar will be elaborated by the Group of Experts on Aspects of Water Quality and Quantity at its ninth session.

2	1982
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16.1.3.2 Protection of groundwater

Description: Considering the importance of groundwater as a source of drinking water, the Committee will examine existing practices for the control of the draw-down and quality of aquifers. In particular, attention will be paid to ways and means of restricting the use of groundwater for priority purposes, monitoring groundwater quality, recharging aquifers, establishing protection zones and ensuring long-term protection of groundwater quality. In the preparation of the project, account should be taken of related activities carried out by UNESCO under the International Hydrological Programme and by WHO.

Method of work: A Seminar will be held in 1983. The programme of the seminar will be elaborated by the Group of Experts on Aspects of Water Quality and Quantity at its tenth session

2	1983
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<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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16.1.4 Harmonization of water statistics

Description: As a follow-up to the Seminar on Long-term Planning of Water Management, held in Zlatni Piasatzi (Bulgaria, 1976) the Committee will examine ways and means of harmonizing the components of national data so that the details of water use, including both quality and quantity aspects, may be directly comparable. Work will also be undertaken on an international standard classification of water use. The Committee will also promote harmonization of statistical data in transboundary river basins.

Method of work: The project will be carried out in close co-operation with the Conference of European Statisticians (CES). An informal meeting on statistics of water use and quality of water will be held in May 1981, in co-operation with CES.

3

1983

16.1.5. Integration of long-term planning of water management to land-use planning

Description: The Committee will review the concepts and methods for the integration of water management and land-use planning as a follow-up to the Seminar on Long-term Planning of Water Management, held in Zlatni Piasatzi (Bulgaria, 1976). Particular attention will be paid to the relationship between development action and available water quality and quantity, and to the role of land-use planning in the protection of water resources.

Method of work: A seminar will be held in 1984. The programme of the seminar will be elaborated by the Group of Experts on Aspects of Water Quality and Quantity at its eleventh session

2

1984

WORK AREA 16.2: ECONOMIC PROBLEMS OF WATER MANAGEMENT

16.2.1 Rational Utilization of Water

Description: As a follow-up to previous activities on rational utilization of water, the Committee will undertake preparation of the report on rational utilization of water in the ECE region, with a view to providing guidelines to ECE member Governments to promote more rational and economic utilization of water resources. This work might serve as a basis for the drafting of an ECE Declaration on the rational utilization of water.



<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
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Method of work: The secretariat will prepare, with the assistance of delegations from Czechoslovakia, the German Democratic Republic, the Netherlands and the United Kingdom, a synthesis report on the documentation prepared for the seminars held in Leipzig (1979) and Veldhoven (1980) and on other relevant documents prepared under the auspices of the Committee on Water Problems in particular the report on Long-term Perspectives for Water Use and Supply. A first draft of this synthesis report will be submitted to the thirteenth session of the Committee.

2	1982
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16.2.2 Techniques and means for drought and flood management

Description: The Committee will review and consider existing programmes and techniques for drought management and initiate studies to develop improved bases for planning land and water management. The Committee will up-date its earlier study on flood management with particular emphasis on disaster prevention and preparedness.

Method of work: The delegation of Canada will prepare a preliminary report for the consideration of the Committee on Water Problems at its thirteenth session

2	1982
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16.2.3 Administrative and financial problems and co-operation in river basin development and management

Description: The Committee will review present practices for the optimum management of water resources in river basin development, in order to select the administrative and financial arrangements applicable to different social and political systems.

Method of work: (To be completed by the Committee at its thirteenth session)

3	1984
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16.2.4 Establishment of water grids and the conveyance of water over long distances

Description: The Committee will study the various (economic, environmental, social, etc.) aspects of the establishment of water grids, including the conveyance of water over long distances, in order to promote policies to overcome regional economic disparities owing to water shortage.

Method of work: (To be completed by the Committee at its fourteenth session)

2	1984
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Estimated duration (in years)	Estimated termination <u>year</u>
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WORK AREA 16.3: ENVIRONMENTAL PROBLEMS OF WATER MANAGEMENT

16.3.1 Prevention and control of water pollution,  
including transboundary pollution

Description: The Committee will keep under review progress made in the prevention and control of water pollution, including transboundary pollution, in order to provide a basis for co-operation among countries involved, in the spirit of the Final Act of the Conference on Security and Co-operation in Europe.

Method of work: Details are given under each project component below.

16.3.1.1 Compilation of existing conventions and international agreements concerning water resources in the ECE region

Description: The Committee will undertake the compilation of existing conventions and international agreements in the ECE region concerning water resources under both quality and quantity aspects, aiming at facilitating co-operation among ECE Governments in the light of the Final Act of the Conference on Security and Co-operation in Europe.

Method of work: A rapporteur from Austria will prepare a draft report related to the subject matter, for consideration by the Committee at its thirteenth session. This report will present, inter alia, the general trends and common elements of the different agreements in force, with the goal of providing guidelines for formulating future international agreements concerning water resources

2

1982

16.3.1.2 Methodology of setting priorities for water pollution control measures

Description: The Committee will review the methodology of setting priorities for water pollution control measures, including that of assessing alternatives for accomplishing those measures, in order to make recommendations for the proper inclusion of water quality management in integrated water resources plans.

Method of work: (To be completed by the Committee at its thirteenth session)

2

1983

Estimated duration (in years)	Estimated termination <u>year</u>
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16.3.2 Protection of the marine environment from  
pollutants emanating from land-based sources

Description: As a follow-up to the seminar on the protection of coastal waters against pollution from land-based sources, held in Lisbon (Portugal, 1975) the Committee will further consider the protection of the marine environment from pollutants emanating from land-based sources, in order to promote international co-operation in this particular field.

Method of work: Details are given under each project component below.

16.3.2.1. Economic assessment of damages caused to the marine environment by pollution emanating from land-based sources

Description: The Committee, in co-operation with the Senior Advisers on Environmental Problems, will examine possible ways to assess the economic damages caused to the marine environment by pollutants emanating from land-based sources.

Method of work: (The Committee will consider means of undertaking a project on this topic at its thirteenth session. In order to facilitate the discussion, the secretariat will prepare a note containing suggestions for future work).

2	1983
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16.3.2.2 Substances emanating from land-based sources harmful to the marine environment

Description: The Committee will undertake a compilation of substances harmful to the marine environment enumerated in various conventions related to marine pollution from land-based sources. Special emphasis will be given to different policies for pollution control in these conventions

Method of work: (To be completed by the Committee at its fourteenth session).

2	1984
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16.3.3 Comparison and analysis of methods for  
defining standards of water quality

Description: The Committee will review and compare methods used in ECE countries for developing, establishing and implementing water quality standards and effluent standards or limitations, in order to gain information and to explore the feasibility of establishing a certain harmonization and integration of these standards at an international level. The Committee will also review and compare drinking water standards used in ECE countries.

	<u>Estimated duration (in years)</u>	<u>Estimated termination year</u>
<p><u>Method of work:</u> The Committee entrusted, at its tenth session, a task force of government rapporteurs under the leadership of Hungary to continue work on the comparison and analysis of methods for defining the various national standards of water quality, including effluent standards. A third meeting of the task force will be held in March 1981 in Budapest (Hungary). The Committee will have before it, at its thirteenth session, a first draft of the report prepared by the task force.</p>	4	1982
<p>16.3.4    <u>Factors influencing the reduction of polluting substances discharged by different industrial branches</u></p>		
<p><u>Description:</u> The Committee will consider factors influencing the reduction of water-borne pollutants in different industrial sectors in order to elaborate recommendations to reduce the pollution load of industrial effluents. These recommendations will be of value in reducing water pollution and will be a useful tool for decision-making in water management.</p>		
<p><u>Method of work:</u> The delegation from France will prepare a preliminary report taking into account the outcome of the High-level Meeting within the Framework of the ECE on the Protection of the Environment, for the consideration of the Committee on Water Problems at its thirteenth session.</p>	2	1982
<p>16.3.5    <u>Measures for efficient protection and improvement of the environment in water resources development</u></p>		
<p><u>Description:</u> The Committee will review national policies for the protection and improvement of the environment in water resources development, paying particular attention to social considerations, in order to identify appropriate environmental indicators and to make recommendations to ECE Governments for ensuring environmental protection in water resources development.</p>		
<p><u>Method of work:</u> (To be completed by the Committee at its thirteenth session).</p>	2	1983

	Estimated duration (in years)	Estimated termination year
16.3.6 <u>Methods for assessing the economic impact caused by water pollution</u>		
<u>Description:</u> The Committee will consider methods used in different countries for assessing the economic impact of water pollution in order to provide ECE Governments with information on the methods and criteria existing in the region.		
<u>Method of work:</u> Details are given under each project component.		
16.3.6.1 <u>Methods for assessing the economic impact caused by water pollution due to activities related to recreation and amenities</u>		
<u>Description:</u> The Committee will consider methods used in different countries for assessing the economic impact of water pollution due to activities related to recreation and amenities, in order to provide ECE Governments with information on the methods and criteria existing in the region.		
<u>Method of work:</u> (To be completed by the Committee at its thirteenth session).	3	1983
16.3.6.2 <u>Methods of assessing the economic impact caused by water pollution due to industrial and urban activities</u>		
<u>Description:</u> The Committee will consider methods used in different countries for assessing the economic impact of water pollution due to industrial and urban activities, in order to provide ECE Governments with information on the methods and criteria existing in the region.		
<u>Method of work:</u> (To be completed by the Committee at its fifteenth session).	2	1985
16.3.7 <u>Setting up and operation of water quality and pollution sources monitoring devices with special regard to alarm systems</u>		
<u>Description:</u> The Committee will proceed with an exchange of information on available monitoring devices for water quality and pollution sources, including waste discharges as well as on records of operational experience and will consider the requirements of water monitoring stations in respect of their characteristics, location, density and frequency of observations, with particular reference to alarm systems for monitoring accidental pollution and floods, in order to strengthen international co-operation in this field.		
<u>Method of work:</u> (To be completed by the Committee at its thirteenth session.)	3	1984

Estimated  
duration  
(in years)

Estimated  
termination  
year

WORK AREA 16.4: RESEARCH AND DEVELOPMENT

16.4.1 Water pollution from animal production

Description: As a follow-up to the seminar on the pollution of waters by agriculture and forestry, held in 1973, the Committee will review techniques for the prevention of water pollution originating from animal production, in order to promote efforts among ECE Governments for the control of this important source of water pollution.

Method of work: The Committee will organize a seminar on this subject, jointly with the Committee on Agricultural Problems. The seminar will be held in Geneva at the Palais des Nations from 15 to 18 September 1981

2

1981

16.4.2 Techniques and means for industrial and municipal sewage effluent purification

Description: The Committee will review and consider the present techniques of purification of municipal and industrial effluents in order to promote the application of advanced technologies as well as to make recommendations on methods and criteria for the optimization of waste water treatment.

Method of work: A questionnaire on the subject matter is being circulated to ECE Governments. Replies to this questionnaire in the form of national reports will be used in the preparation of a report for consideration by the Group of Experts on Aspects of Water Quality and Quantity at its tenth session. The Committee on Water Problems will be informed about the replies received by the secretariat at its thirteenth session.

3

1982

16.4.3 Creation of water supply systems with zero waste water discharge in industrial enterprises

Description: The Committee will consider technical, economic, ecological, social and hygienic aspects related to the creation of water supply systems with zero waste water discharge in industrial enterprises with a view to elaborating recommendations and guidelines directed to the establishment of criteria and principles for selecting the most advanced effective and economic water supply schemes with zero waste water discharge.

Method of work: (To be completed by the Committee at its fourteenth session).

2

1984

Estimated duration (in years)	Estimated termination year
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16.4.4. Water recycling in industrial processes

Description: The Committee will examine critical industrial sectors in order to determine how the recycling of process waters is being promoted and to identify future research needs in order to encourage a more rational use of water resources.

Method of work: A seminar will be convened in 1985. The programme of the seminar will be elaborated by the Group of Experts on Aspects of Water Quality and Quantity at its twelfth session

2	1985
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16.4.5 Use of treated domestic sewage

Description: The Committee will review present practices for the use of treated domestic sewage for other purposes (e.g. recharging aquifers, irrigation, cooling waters, etc.) in order to establish guidelines and promote joint research among ECE Governments for a more rational use of available water resources.

Method of work: A seminar will be held in 1986. The programme of the seminar will be elaborated by the Group of Experts on Aspects of Water Quality and Quantity at its thirteenth session.

2	1986
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