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SUBSTANTIVE PREPARATIONS FOR THE CONFERENCE

Activities of the relevant organs, organizations  
and bodies of the United Nations system in the  
field of new and renewable sources of energy

Report submitted by the  
World Meteorological Organization \*

Addendum

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# WORLD METEOROLOGICAL ORGANIZATION

## WMO ACTIVITIES IN THE FIELD OF NEW AND RENEWABLE SOURCES OF ENERGY

The eighth World Meteorological Congress (Geneva 1979) considered that work related to energy problems warranted very high priority. The Congress decided to amplify some of the projects proposed by the Secretary-General for the next financial period in order to permit the Organization to give support to the UN Conference on New and Renewable Sources of Energy.

The framework for the activities is the WMO Plan of Action in the Field of Energy Problems, established in 1976, in which special attention is paid to the subject areas of (i) energy production; (ii) energy transport, conservation and consumption; and (iii) utilization of wind and solar energy and other new energy sources.

The WMO contribution to the UNCNRSE will consist of:

- a Technical Note on Meteorological Aspects of the Utilization of Solar Radiation as an Energy Source;
- monthly and annual world maps on relative global radiation indicating the distribution of solar energy potential over the world;
- a Technical Note on Meteorological Aspects of the Utilization of Wind as an Energy Source (including world maps on distribution of wind energy potential).

Copies of the WMO contribution will be made available to delegations during the UNCNRSE in Nairobi in August 1981.

The Technical Notes dealing with solar energy and wind power will serve as a basis in these fields for the activities of the WMO experts going on missions to developing countries as well as a basis for training and education activities devoted to meteorologists.

In 1981, WMO will start to give assistance to developing countries through expert missions on applications of meteorology to energy problems and on other special applications. The assistance will be given in particular in preparation of climatological information for applied purposes and in the preparation of inventories of climatological stations and catalogues of climatological data. For solar and wind energy projects, special attention will be given to the needs to establish new meteorological stations and improve the quality and programme (including frequency and height of measurements) of existing stations with a view to acquiring reliable meteorological data, in particular, solar radiation and wind data.

Meteorological aspects of new and renewable sources of energy are continuously considered by rapporteurs and working groups within technical commissions of WMO and, in particular, within the WMO Commission for Climatology and Applications of Meteorology (CCAM), and its Working Group on Applications of Meteorology and Climatology to Energy Problems.

In continuation of its activities in the field of energy problems, WMO plans to organize training seminars, workshops and technical conferences. In November 1981, a WMO technical conference on meteorology and energy will be held in Mexico-City. The main topics of the conference will relate to solar energy and wind power.