

**INTERNATIONAL ENERGY AGENCY**  
**Programme of Research and Development**  
**on Wind Energy Conversion Systems**  
**(IEA R&D WECS)**

**ANNUAL REPORT 1984**

**A report by the IEA R&D WECS Executive Committee**

**January 1985**

INTERNATIONAL ENERGY AGENCY

Programme of Research and Development on  
Wind Energy Conversions Systems  
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## FOREWORD

This is the seventh Annual Report of the IEA Programme for Research and Development on Wind Energy Conversion Systems (IEA R&D WECS). The report summarizes the progress during 1984, and briefly reviews the achievements of the Programme since its start in 1977.

The report has been prepared by the Secretary of the Executive Committee with contributions from the Operating Agents. It is submitted to the IEA in accordance with the recommendations of the IEA Committee on Research and Development.

B Maribo Pedersen  
Chairman of the  
Executive Committee

/

B Pershagen  
Secretary of the  
Executive Committee

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## EXECUTIVE SUMMARY

The IEA Programme for Research and Development on Wind Energy Conversion Systems (IEA R&D WECS) was initiated in 1977 by nine parties from Austria, Canada, Denmark, Germany, Ireland, the Netherlands, New Zealand, Sweden and the United States of America. Japan and Norway entered in 1978 and the United Kingdom (two parties) in 1980, bringing the total number of Contracting Parties to thirteen.

The IEA R&D WECS Programme started with four Tasks which have now been successfully completed. Three additional Tasks have been adopted, one of which has been completed. The Tasks are either cost-sharing or task-sharing or both. The level of effort is generally 10-20 person-years over 2-4 years. The status of the Tasks is as follows:

<u>Task I</u>	Environmental and Meteorological Aspects Wind Energy Conversion Systems
	Completed 1981
Operating Agent	National Board for Energy Source Development, Sweden
Participants	Austria, Canada, Denmark, Germany, Ireland, Japan, the Netherlands, New Zealand, Norway, Sweden, the UK and the USA
<u>Task II</u>	Evaluation of Models for Wind Energy Siting
	Completed 1983
Operating Agent	US Department of Energy
Participants	Canada, Denmark, Germany, Japan, Norway, Sweden, UK, USA