

**ENGAGEMENT OF
ASIA PACIFIC COUNTRIES
IN THE IEA NETWORK
FOR ENERGY TECHNOLOGY
CO-OPERATION**

ENGAGEMENT OF ASIA-PACIFIC COUNTRIES IN THE IEA NETWORK FOR ENERGY TECHNOLOGY CO-OPERATION

The IEA provides a framework for more than 40 agreements for international co-operation on key energy technologies (Implementing Agreements). Participation by Countries in the Asia-Pacific region is as follows:

<u>Country</u>	<u>Number of Agreements</u>	
	<u>Actual</u>	<u>Potential</u>
Australia	16	3
China	2	13
India	2	14
Japan	29	2
Korea	15	4
Malaysia	-	2
Mongolia	-	1
New Zealand	8	1
Philippines	-	2
Singapore	-	1

The IEA is working to facilitate greater participation by developing countries through its NEET initiative, which is part of the Gleneagles Plan of Action. Brief summaries of the activities of each Implementing Agreement, as well the full membership, are contained in *Energy Technologies at the Cutting Edge*, which is also available.

PARTICIPATION OF ASIA-PACIFIC COUNTRIES

AUSTRALIA – ACTUAL PARTICIPATION

Implementing Agreements

Advanced Fuel Cells
Bioenergy
Buildings and Community Systems (ECBCS)
Clean Coal Sciences
Demand-Side Management
Energy Technology Systems Analysis Programme (ETSAP)
Enhanced Oil Recovery
Geothermal
Hydrogen
Greenhouse Gases
Multiphase Flow Sciences
Photovoltaic Power Systems
Solar Heating and Cooling
SolarPACES
Stellarator Concept
Wind Energy Systems

AUSTRALIA - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Advanced Materials for Transportation	Contracting Party	May 2006: Invitation extended to Australia.
ENARD	Contracting Party	September 2006: Invitation extended to Australia. Formal invitation letter sent by Executive Committee.
Hydropower		November 2006: Executive Committee meeting to be held in Tasmania at HydroTasmania. HydroTasmania is interested in joining the IA.

CHINA – ACTUAL PARTICIPATION

Implementing Agreements

Fusion Materials
Hydropower

CHINA - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Advanced Motor Fuels	Contracting Party	October 2006: Invitation extended to China Automotive Technology and Research Center November 2006: Formal invitation letter sent by Executive Committee.
Advanced Materials for Transportation	Contracting Party	2005: Invitation extended to China (Lanzhou Institute of Chemical Physics, Chinese Academy of Sciences)
ASDEX Upgrade	Contracting Party	June 2006: Invitation extended to China (Institute of Plasma Physics, Chinese Academy of Sciences). October 2006: Formal invitation letter sent by Executive Committee.
Clean Coal Sciences	Sponsor	March 2005: Approval of Beijing Research Institute of Coal Chemistry (BRICC) as a Sponsor by the IEA Committee on Energy Research and Technology. IEA legal office is awaiting signature page from BRICC.
Energy Storage	Contracting Party potentially also Sponsor	November 2002: Invitation extended to China. China Academy of Building Research (CABR) has indicated to the IA that it would soon be in touch with MOST. May 2005: Invitation extended to Tsinghua University, Beijing to join the IA as a Sponsor.
Enhanced Oil Recovery	Contracting Party	PetroChina Company Limited has been active in the IA since 2001. The Executive Committee has been informed by PetroChina that IA legal text has been ratified domestically. However, China has never formally designated PetroChina. The IEA legal office hopes to receive a letter of designation from the government and a letter of acceptance from PetroChina.
Greenhouse Gases		The IA's Operating Agent is seeking a contact in China. The IA is very eager to have China participate.
Heat Pumping Technologies		China Academy of Building Research has expressed interest in joining the IA.

CHINA - POTENTIAL PARTICIPATION, CONT'D

Name of IA	Invited as CP or Sponsor?	Status
Hybrid and Electric Vehicle Technologies and Programmes		November 2006: Discussion at Executive Committee meeting of 'very high interest' among Chinese experts to participate in the IA. An Executive Committee member has a contact in CATARC (China Automotive Technology and Research Center).
Hydrogen		2002: Invitation extended to China. 2006: Shanghai Jiao Tong University has expressed interest in the IA's Task on Biomass.
Nuclear Technology of Fusion Reactors	Contracting Party	September 2006: Invitation extended to Institute of Plasma Physics, Chinese Academy of Sciences.
Ocean Energy Systems		November 2006: Invitation extended to China. Harbin Engineering University was present at that Executive Committee meeting.
Solar Heating and Cooling Systems		June 2006: Executive Committee expressed an interest in China joining the IA.

INDIA - ACTUAL PARTICIPATION

Implementing Agreements

Greenhouses Gases
IEA Clean Coal Centre (there is an Indian Sponsor in this IA)

INDIA - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Bioenergy	Contracting Party	1997: Invitation extended to India invited. 1999: India approved by the approved as a Contracting Party by the IEA Committee on Energy Research and Technology.
Clean Coal Sciences	Contracting Party	November 2000 and October 2002: Invitations extended to India.
Demand-Side Management	Contracting Party	October 2005: Invitation extended to India. April 2006: Executive Committee informed that the IA is under consideration in India. Ministry of Power has expressed to the IEA its intention to join the IA in 2007.
Energy Storage		ACME Telepower Ltd has expressed interest in this IA but could not attend November 2005 Executive Committee meeting. No formal invitation extended as yet by the Executive Committee.
Geothermal	Contracting Party	March 2006: Invitation extended to India.
Hydropower		No formal invitation extended as yet. A delegation from the Indian Ministry of Non-Conventional Energy Sources (MNES) came to the IEA in February 2004 and was invited by the IA to participate in an IEA workshop in May 2004.
Hybrid and Electric Vehicle Technologies and Programmes		November 2006: Discussion at Executive Committee meeting that deputy chairman of REVA (electric car manufacturer) has offered to bring the IA to the attention of the Indian Minister of Science and Technology.
Industrial Energy-Related Technologies and Systems	Contracting Party	December 2005: Invitation extended to India.
Ocean Energy Systems		November 2006: Invitation extended to India. National Institute of Ocean Technology attended workshop after Executive Committee meeting. India would like to host an Executive Committee meeting in 2008.

INDIA - POTENTIAL PARTICIPATION, CONT'D

Name of IA	Invited as CP or Sponsor?	Status
Photovoltaic Power Systems	Contracting Party	October 1999 and May 2004: Invitation extended to India. October 2003: Executive Committee contact with Indian government. At the time, the relevant Ministry was being reorganized. May 2004: Executive Committee sent formal letter of invitation to India. April 2006: Executive Committee minutes indicate no recent response from Ministry of Non-Conventional Energy Sources.
Solar Heating and Cooling Systems		June 2006: Executive Committee expressed an interest in India joining the IA.
SolarPACES		Invitation extended before 1999.
ASDEX Upgrade	Contracting Party	June 2006: Invitation extended to India. Formal letter of invitation to Institute for Plasma Research.
Wind Turbine Systems	Unsure	Invitation extended before 1999.

JAPAN - ACTUAL PARTICIPATION

Implementing Agreements

Advanced Fuel Cells
Advanced Motor Fuels
Bioenergy
Buildings and Community Systems (ECBCS)
Clean Coal Sciences
Climate Technology Initiative (CTI)
Demand-Side Management (there is a Japanese Sponsor in this IA)
Emissions Reduction in Combustion
Energy Storage
Energy Technology Systems Analysis Programme (ETSAP)
Enhanced Oil Recovery
Environmental, Safety and Economic Aspects of Fusion Power
Fluidized Bed Conversion
Fusion Materials
Geothermal
Heat Pumping Technologies
High-Temperature Superconductivity (HTS) on the Electric Power Sector
Hydrogen
Hydropower
IEA Clean Coal Centre
Greenhouse Gases
Large Tokamaks
Nuclear Technology of Fusion Reactors
Ocean Energy Systems
Photovoltaic Power Systems
Plasma Wall Interaction in TEXTOR
Reversed Field Pinches
Stellarator Concept
Wind Energy Systems

JAPAN - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Advanced Materials for Transportation	Contracting Party	May 2006: Invitation extended to Japan.
Hybrid and Electric Vehicle Technologies and Programmes		November 2006: Japan may rejoin this IA.

KOREA - ACTUAL PARTICIPATION

Implementing Agreements

Advanced Fuel Cells
ASDEX-Upgrade
Climate Technology Initiative (CTI)
Demand-Side Management
District Heating and Cooling
Energy and Environmental Technologies Information Centres (EETIC)
Energy Technology Data Exchange (ETDE)
Energy Technology Systems Analysis Programme (ETSAP)
Fluidized Bed Conversion
Geothermal
High-Temperature Superconductivity (HTS) on the Electric Power Sector
Hydrogen
Greenhouse Gases
Photovoltaic Power Systems
Wind Energy Systems

KOREA - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Bioenergy		May 2005: Discussions at Executive Committee meeting regarding Korea joining this IA.
Clean Coal Centre	Contracting Party	2005: Template designation letters sent to Korea by the IEA.
Fusion Reactors (NTFR)	Contracting Party	Invitation extended to Korea in 2003 and 2004. Expression of interest by Korean Atomic Energy Research Institute (KAERI).
IETS	Contracting Party	December 2005: Invitation extended to Korea.

NEW ZEALAND - ACTUAL PARTICIPATION

Implementing Agreements

Bioenergy
Buildings and Community Systems (ECBCS)
Geothermal
Hydrogen
Greenhouse Gases
Solar Heating and Cooling
Wind Energy Systems
IEA Clean Coal Centre

NEW ZEALAND - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
ENARD	Contracting Party	September 2006: Invitation extended to New Zealand.

MALAYSIA - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Enhanced Oil Recovery	Contracting Party	2004: Invitation extended to Malaysia.
Photovoltaic Power Systems		Malaysia participates in two Annexes as an observer and is continuing to investigate the possibility of formal participation in the IA's activities.

MONGOLIA - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Photovoltaic Power Systems		May 2004: Mongolia was invited to be an observer to Tasks 8 and 9 and to consider membership. April 2005: Potential participation discussed at Executive Committee meeting.

PHILIPPINES - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Clean Coal Science	Contracting Party	Invitation extended to the Philippines in November 2000 and October 2002.
Geothermal	Contracting Party	2002-2004: The Philippines is listed as unofficially participating in Annexes I and IV (Deep Geothermal Resources). Also participated unofficially in Subtask B (Drilling and Logging Technology). August 2005 and March 2006: Formal invitation extended to the Philippines by the Executive Committee.

SINGAPORE - POTENTIAL PARTICIPATION

Name of IA	Invited as CP or Sponsor?	Status
Buildings and Community Systems (ECBCS)		May 2004: The National Environmental Agency had expressed interest in participating in the IA. Dec 2005: Discussions took place between the IA and National University of Singapore.

In addition to the above actual and potential participations, the following Asia-Pacific countries have been granted access to the Energy Technology Data Exchange database:

Energy Technology Data Exchange (ETDE)

The following Asia-Pacific countries have been granted unconditional access to the ETDE database:

Philippines
Bangladesh
Madagascar
Sri Lanka
Thailand
Myanmar
Vietnam



International Energy Agency: Focus on Asia Pacific

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