



The slide features a background image of hands holding several glowing globes. In the top right corner is the IEA logo (a green circle with 'iea' in white) and the text 'International Energy Agency'. The main title is 'IEA Energy Technology Network' in large blue font, followed by the subtitle 'By Joining Forces We Multiply Results' in a smaller blue font. Below this, the event details '2nd Belgium IA Day' and '29 May 2012' are listed. The speaker's name and title, 'Carrie Pottinger, Programme Manager Technology R&D Networks International Energy Agency', are at the bottom. A small copyright notice '© OECD/IEA 2012' is in the bottom right corner.

iea International Energy Agency

IEA Energy Technology Network

By Joining Forces We Multiply Results

2nd Belgium IA Day
29 May 2012

Carrie Pottinger, Programme Manager
Technology R&D Networks
International Energy Agency

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The slide has a vertical sidebar on the left with the IEA logo at the top and four bullet points: 'Energy Security', 'Environmental Protection', 'Economic Growth', and 'Engagement Worldwide'. The main content area is titled 'IEA ENERGY TECHNOLOGY NETWORK' in large blue font. Below the title are four bullet points, each with a green arrowhead: 'Strategy and Governance', 'Position and Influence', 'Support and Guidance', and 'Communicating and Connecting'. A small copyright notice '© OECD/IEA 2012' is at the bottom left of the sidebar.

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- ▶ Energy Security
- ▶ Environmental Protection
- ▶ Economic Growth
- ▶ Engagement Worldwide

IEA ENERGY TECHNOLOGY NETWORK

- ▶ Strategy and Governance
- ▶ Position and Influence
- ▶ Support and Guidance
- ▶ Communicating and Connecting

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1. Strategy and Governance



- OECD
- IEA
- Energy Technology Network
- Implementing Agreements




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ORGANISATION FOR ECONOMIC CO-OPERATION AND DEVELOPMENT



- Marshall Plan to rebuild economies of post-war Europe in all sectors (including energy)
- United States, Japan, others joined
- In 1970s, energy became prime focus
- Creation of two energy-related agencies
 - Nuclear Energy Agency (NEA)
 - International Energy Agency (IEA)
- Today, OECD has 34 member countries
 - NEA: 30
 - IEA: 28




INTERNATIONAL ENERGY AGENCY  International Energy Agency

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- **Established 1974 - autonomous agency**
- **Two-fold mandate**
 - Promote energy security
 - Advise on sound energy policy
- **Agency aims**
 - Secure member countries' access to energy
 - Promote sustainable energy policies that spur economic growth and environmental protection
 - Improve transparency of international markets – data collection and analysis
 - Support global collaboration on energy technology to secure future energy supplies and mitigate their environmental impact, including through improved energy efficiency and development and deployment of low-carbon solutions
 - Find solutions to energy challenges through engagement and dialogue




Ensure Security? Yes, through Energy Technology RD&D Collaboration


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- In 1974 the IEA established a structure for governments to work together to conserve existing resources and developing alternative energy sources and improving energy efficiency
- In 1975 the IEA Governing Board created the Committee on Energy Research and Development (now called the Committee on Energy Research and Technology - CERT) to co-ordinate R&D issues for IEA Member countries
- Today the CERT coordinates the work of the IEA Energy Technology Network: Working parties, experts' groups and Implementing Agreements



ENERGY TECHNOLOGY NETWORK





■ OECD member countries ■ OECD non-Member countries

More than 1,300 research projects to date
Linking public and private – IEA Members and non-Members
6,000 scientists and experts
Nearly 500 government agencies, research organisations, universities, energy companies, consultants


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Committee on Energy Research and Technology (CERT)

- Senior technology experts representing IEA Member countries
- Explore opportunities for international energy RD&D collaboration
- Identify areas for enhanced RD&D
- Objectives
 - Enhance and Expand Analysis
 - Provide Strategic Policy Guidance
 - Engage with Major Economies
 - Strengthen the Energy Technology Network
 - Encourage Investments in Clean Energy Technologies

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CERT Bodies

- **Delegates from IEA Member countries**
 - Working Parties (supply, sectors)
 - ◆ End-use (buildings, electricity, industry, transport)
 - ◆ Fossil fuels (coal, gas, oil)
 - ◆ Fusion (physics, materials, devices)
 - ◆ Renewables (technologies and deployment)
 - Experts' Groups (cross-cutting issues)
 - ◆ Oil & Gas
 - ◆ R&D Priority-setting and Evaluation
 - ◆ Science for Energy
- **Forums for international co-operation through technical and cross-cutting workshops**



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CERT Technology Policy Discussions

- **Topics examined to date**
 - Smart grids
 - Energy storage
 - Rare earth minerals
 - Transition Fuels
- **Scheduled topics**
 - Technology financing (June 2012)
 - Basic Science Week (May 2013)
 - Intellectual property rights
 - Roadmap tracking and implementation
 - Large-scale deployment projects



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What is the relationship between the IEA and the IAs?

- **The IEA Secretariat supports IAs**
 - Synthesising policy messages from results
 - Raises awareness of IA results
 - ◆ Policy makers, private sector, other stakeholders
 - Outreach opportunities
 - Legal advice
- **IAs provide expertise to IEA**
 - Independent groups not belonging to the IEA
 - Provide targeted expertise to IEA
 - ◆ Technology advice, roadmaps, workshops
 - ◆ Peer reviews




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2. Position and Influence



- Cross-cutting / thematic discussions
- Effectiveness of the Network



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Cross-Cutting / Thematic Discussions

■ **CERT brainstorming and meeting of Chairs and Vice-Chairs:**

- Reduce administration during CERT meetings in favour of thematic, cross-cutting and strategic discussions
- Strengthen network links
- Provide opportunity for Working Parties, Expert Groups and Implementing Agreements to:
 - Be actively involved in shaping the agendas
 - Provide technical expertise for the discussions



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■ **Leverage IEA's convening power**

■ **Position CERT as central to informing on timely topics**

- Rare earth minerals
- Future of gas
- Energy storage
- Energy systems

■ **Raise awareness of the relevance of the network among IEA Member countries**




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■ Topics and Discussions

CERT Brainstorming	March 2010
Smart grids	June 2010
Communication I	Sep 2010
Technology Platform	May and October 2010
Communication II	April 2011
Energy storage	February 2011
Rare earth materials	February 2011
Future of Gas	June 2011
Energy Systems	November 2011
CO2 Capture Storage	February 2012
Technology Financing	June 2012




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■ Other suggested topics

- Barriers related to materials
- Role of industry in basic science and demonstration
- Outreach and collaboration with the private sector
- Cost of Renewable Technologies
- Intellectual property rights
- Roadmap tracking and implementation
- Training and education next-generation researchers
- Smart communities, cities, regions
- Others as proposed (suggestions welcome)
 - Working party chair or delegate
 - CERT-Network Liaison Officer
 - IEA Desk officer




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Effectiveness of the Network

- **Recommendations Brainstorming 2010**
 - Reduce administrative burdens
 - Make space for timely, thematic discussions (e.g. rare earth)
 - A need for more recognition of the CERT and the technology network – inside the IEA family and outside
 - ◆ Network structure, outreach and communication, meetings, administration and priority-setting
 - Good interactions and strong linkages between the CERT and the IEA, the IEA Governing Board , the energy technology network, and the IEA Secretariat are key
 - ◆ Governing Board – CERT relationship, Agenda setting, work programme and strategy
 - Carry out the first analysis of the effectiveness of the network

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Analysis of the Network 2011

- **Survey of 19 IAs**
 - Priority-Setting
 - Evaluation
 - Strategy
 - Scope
 - Technical Focus
 - Participation
 - Barriers
 - Costs
 - Outcomes and Impacts
 - Visibility
 - Collaboration
 - New and Emerging Areas
- **Literature review and comparative analysis**
 - Evaluating international R&D, governance
- **Findings and Recommendations**
 - Review the effectiveness of the CERT Criteria for Self-Evaluation
 - Establish a CERT policy for increasing private sector participation in IAs and guidelines for implementation
 - Strengthen co-ordination among national IEA energy technology network participants

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5. Communicating and Connecting



- Platform
- NEET Initiative
- CET Symposiums
- Training and Capacity Building
- IA Participation


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Enhanced International Co-operation

- Responding to IEA, G8 and G20 priorities
- Consolidating institutional contacts
- Linking Countries with IA Experts
 - Brazil, China, India, Russia, South Africa
 - Mexico, Kazakhstan, Singapore
- Provide practical tools for implementation
- Share information
- Strengthen institutional contacts
- Create networks among experts



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International Low-Carbon Energy Technology Platform

- Review progress in the transition to a low-carbon economy
- Share experience on best-practice technology and policy
- Help launch technology collaboration initiatives
- Under guidance of the CERT



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- **Activities**
 - Developing and implementing roadmaps
 - Dialogues
 - Sharing experience on technologies and policies
 - Informing/linking to international collaborative efforts
- **Events**
 - 2010: Sustainable Hydropower, Brazil**
 - 2011: Energy Storage, IEA**
 - 2011: Smart Grids, Mexico**
 - 2011: Decarbonising the Power Sector, Russia**
 - 2012: Solar Roadmap for the Mediterranean, Morocco**
 - 2012: Finance for Energy Technologies, Stockholm**



Network of Expertise in Energy Technologies (NEET)

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■ **Events**

Singapore, IEA Clean Energy Technology Symposium
2 November 2010


- IAs: ETDE, CCC, Energy Storage, PVPS

Kazakhstan, IEA Clean Energy Technology Symposium
3 March 2011

- IAs: ETDE, CCC, ETSAP

Mexico June 2011
Russia June 2011
South Africa July 2011
China November 2012

World premier: pre-recorded IA presentations.



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■ **NEET Effectiveness and Outcomes**

✓ **Consolidating Institutional Contacts**

- BRAZIL: Ministry of Mines and Energy
- CHINA: Ministry of Science and Technology (MOST)
- INDIA: Ministry of New and Renewable Energy
- MEXICO: Ministry of Energy
- RUSSIA: Federal Agency for Science and Innovation
- SOUTH AFRICA: SA National Energy Research Institute

✓ **Concrete Outcomes**

- CHINA: Creation of a liaison office (MOST-IEA)
- ALL: Increased membership in IAs
- ALL: Increased knowledge of IEA tools, methodologies, data




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IEA Clean Energy Technology Symposiums

- **Activities**

Present the work of IAs during IEA bi-lateral institutional dialogues and training/capacity building events
- **Events**
 - 2010: Singapore**
 - IAs: ETDE, CCC, Energy Storage, PVPS
 - 2011: Kazakhstan**
 - IAs: ETDE, CCC, ETSAP
 - 2011: South Africa**
 - IAs: DSM, ECBCS, HEV, Wind
 - 2012: Kazakhstan**



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IEA Training and Capacity Building

- **One full week of training (2011, 2012)**
- **100 participants from 43 countries (2011)**
- **Modules linked to technology**
 - **Technology network**
 - Roadmaps
 - Scenarios
 - Modeling
 - Renewables
 - Carbon capture and storage



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4. Support and Guidance



- IMPAG Website
- Annual Reports
- Network Logo
- Slides / Letterhead
- Energy Technology Initiatives
- OPEN Bulletin



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Communication


Implementing Agreements (IMPAG)

[Home](#) | [Legal Handbook](#) | [Requests for Extension](#)

[Energy Technology Initiatives](#) | [OPEN Bulletin](#) | [Sample Presentation](#) | [Sample Annual report](#) | [IEA and IAs](#) | [Logo Guidelines](#) | [FAQ](#) | [How to Participate](#) | [Participants](#) | [Contact Search](#) | [Desk Officers](#) | [Network Calendar](#) | [Multilateral Technology Initiatives](#) | [Secretariat Report](#) | [Network News](#)

Cross-Cutting

- Climate Technology Initiative (CTI)
- Energy Technology Data Exchange (ETDE)
- Energy Technology Systems Analysis Programme (ETSAP)

End-Use Technologies

Buildings

- Buildings and Community Systems (ECBCS)
- District Heating and Cooling, including the Integration of Combined Heat and Power
- Efficient Electrical End-Use Equipment
- Energy Storage
- Heat Pumping Technologies

Electricity

- Demand-Side Management
- High-Temperature Superconductivity (HTS) on the Electric Power Sector
- Smart Grids (ISGAN)

Industry

- Emissions Reduction in Combustion
- Industrial Energy-Related Technologies and Systems

<https://www.iea.org/w/ia/>
 Login and password: contact diana.louis@iea.org



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Guidelines for Annual Reports

- **Business showcase of recent results**
- **Designed for specific audiences**
 - Those funding your work
 - Those interested in becoming members
 - The IEA Secretariat
- **Based on information 'pyramid'**
 - Organisation: general to specific
 - Overall report
 - Each section within the report




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- **Less is more**
 - Get to the point!
 - 10-30 pp is largely sufficient
 - Save paper and printing costs
- **Keep the reader interested**
 - Use charts, graphs, text boxes, quotes
 - Messages are underlined and understood faster
 - Breaks up long texts
 - Photos - yes if they underline the study
 - To underline an example of the application of an annex or of existing plants/systems
 - Demonstration plant visited during site visit
 - ExCo members at the business meeting

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■ An AR does not include

- A history of everything done by the IA or the annex
 - The website serves as the repository for all information, including historical. If the reader wants to know more they can consult your website.
- Information on work carried out by others
 - Not participating in your IA
 - Participating in the IA but the information is not the result of the work *within* your IA
- Photos of your social excursions
 - These can be posted on the member-only section of the website
- The IEA green logo (upper left-hand corner on this slide)




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■ Sample Outline

- Introduction
- Chair's Report
- Membership
- Activities
- Communication
- Financing
- Contact information




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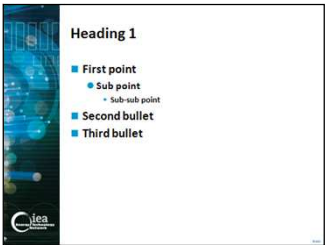


Logo, Slide Deck, Letterhead

New tools for use by the IAs:

- Technology Network and IEA logos brochure
- Powerpoint slide deck
- Personalised IA letterhead




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Contact: Diana.Louis@iea.org

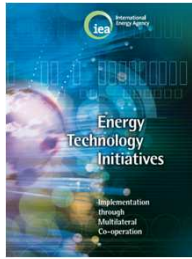



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Energy Technology Initiatives 2012

- **Results of Network analysis**
- **One page for each IA**
 - Policy Brief, Background, Spotlight, Current Projects
- **Start thinking now!**
 - Which results you want to showcase in the Spotlight section
 - Which photo or chart would best underline the results
- **Collection begins June 2012**
 - http://www.iea.org/papers/2010/technology_initiatives.pdf







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OPEN Bulletin

- **Web-based newsletter - e-mail alerts**
 - 20,000 subscribers in 120 countries
 - Public-sector 30% / private sector 70%
- **IEA Energy Technology Network activities and achievements**
 - Interviews/articles featuring key network players
 - New IA participants, projects
 - IA Task reports, publications, newsletters
 - Network developments, innovations
 - Workshops, conferences, awards
- **Now on the IEA website**
 - All IA, articles and news visible for all visitors to the IEA website
 - <http://www.iea.org/topics/cleanenergytechnologies/openenergytechnologybulletin/>







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For Further Information



- Spotlight on Implementing Agreements
- Contact Information



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Implementing Agreements (1)

Supply

FOSSIL FUELS


- Enhanced Oil Recovery
- Fluidized Bed Conversion
- Clean Coal Centre
- Greenhouse Gas RD Programme
- Multiphase Flow Sciences

FUSION POWER

- Environmental, Safety, Economy
- Co-operation on Tokamak Programmes
- Fusion Materials
- Nuclear Technology of Fusion Reactors
- Plasma Wall Interaction
- Reversed Field Pinches
- Spherical Tori
- Stellarator-Heliotron Concept

RENEWABLE ENERGY TECHNOLOGIES

- Bioenergy
- Geothermal
- Hydrogen
- Hydropower
- Ocean Energy Systems
- Photovoltaic Power Systems
- Renewable Technology Deployment
- Solar Heating and Cooling
- SolarPACES
- Wind Energy Systems



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Implementing Agreements (2)

Energy Efficiency

BUILDINGS

Buildings and Community Systems
District Heating and Cooling
Energy Efficient Electrical Equipment
Energy Storage
Heat Pumping Technologies

ELECTRICITY

Demand-Side Management
Energy Efficient Electrical Equipment
High-Temperature Superconductivity
Smart Grids

INDUSTRY

Emissions Reduction in Combustion
Industrial Energy and Technologies


TRANSPORT

Advanced Fuel Cells
Advanced Materials for Transportation
Advanced Motor Fuels
Hybrid and Electric Vehicles

Cross-Cutting

INFORMATION AND MODELING

Climate Technology Initiative
Energy Technology Data Exchange
Energy Technology Systems Analysis



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Multiple Stakeholders

IEA member countries

IEA non-member countries

Sponsors

International Organisations

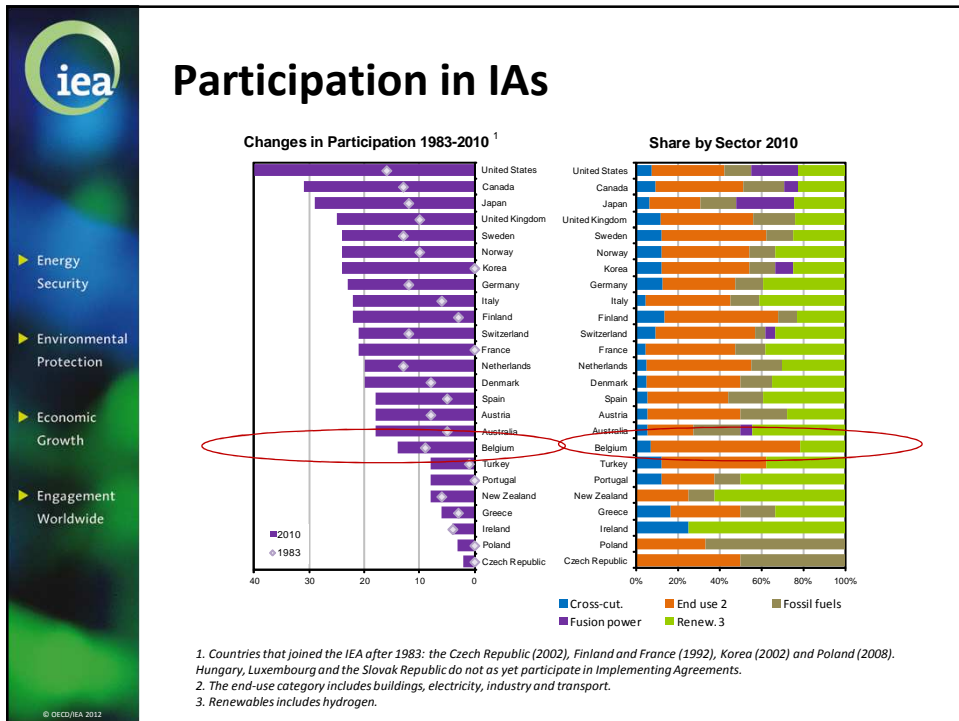
- European Commission (EC)
- United Nations Industrial Development Organisation (UNIDO)
- Organisation for Petroleum Exporting Countries (OPEC)

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IEA Member Countries

	Cross-Cutting	End-Use: Buildings	End-Use: Electricity	End-Use: Industry	End-Use: Transport	Fossil Fuels	Fusion Power	Renewables and Hydrogen	TOTAL
Australia	1	2	2		3	5	1	8	22
Austria	1	3	2		3	4		5	18
Belgium	1	2	2	2	1			3	11
Canada	3	5	3	2	4	6	4	7	34
Czech Republic		1					1		2
Denmark	1	4		1	3	3		7	19
Finland	3	4	3		4	2		5	22
France	1	4	2		3	3		8	21
Germany	3	4	2	1	4	3		9	26
Greece	1	1	1			1		2	6
Ireland	1	1	1		1			4	8
Italy	1	2	3	1	3	3		9	22
Japan	2	4	1	1	2	5	8	8	31
Korea	3	5	3	2	1	3	3	7	27
Netherlands	2	3	3	1	1	3		6	19
New Zealand		1				1		4	6
Norway	3	4	3	2		3		9	24
Poland		1				2		3	3
Portugal	1			1	1	1		4	8
Spain	2	2	2		2	2		7	17
Sweden	3	5	3	2	3	3	1	6	26
Switzerland	2	3	3	1	3	1	1	7	21
Turkey		2			2			3	7
United Kingdom	2	5	3	1	2	5		7	25
United States	3	5	3	2	4	5	8	9	39
IEA	39	74	45	21	50	65	26	144	464
Non-IEA	3	5	5		5	11	11	31	71
Sponsors		3	4			45		12	64
Intl. Organisations	1	1				3	8	8	21
TOTAL	43	83	54	21	55	124	45	195	620

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Belgian Participating Institutions

- Federal Public Service Economy
- Ghent University
- International Network for Information on Ventilation
- Ministry of Economy
- Université Catholique de Louvain
- Université de Liège
- VITO
- Walloon Agricultural Research Center

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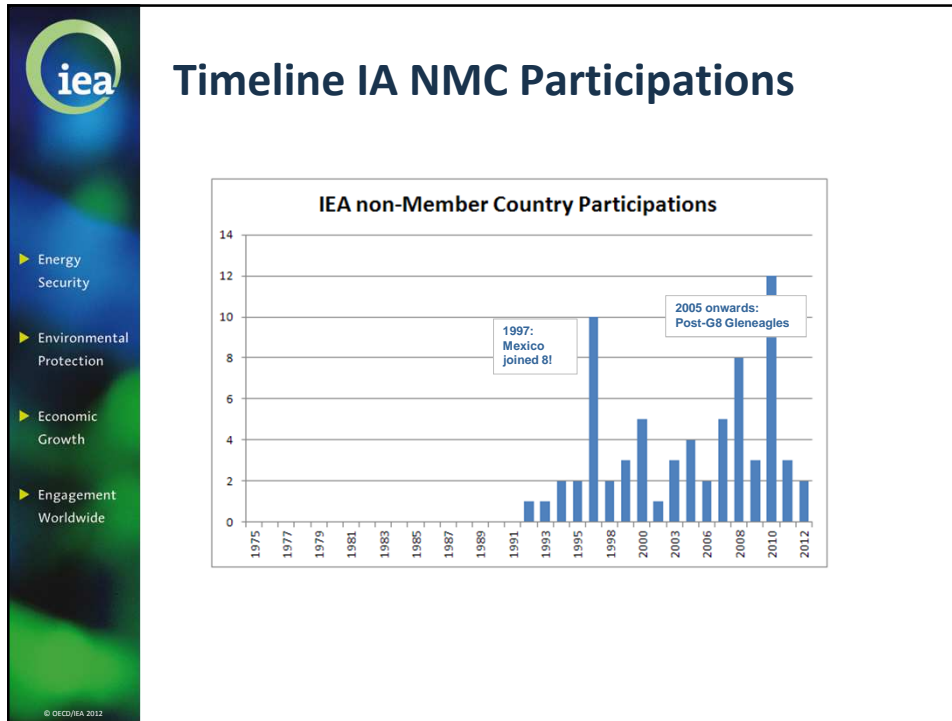


IEA non-Member Countries, Sponsors, International Organisations in IAs

	Cross-Cutting	End-Use: Buildings	End-Use: Electricity	End-Use: Industry	End-Use: Transport	Fossil Fuels	Fusion Power	Renewables and Hydrogen	TOTAL
IEA	39	74	45	21	50	65	26	144	464
Algeria								1	1
Brazil	1							3	4
China		2			2	2	3	5	14
Croatia								1	1
Egypt								1	1
Iceland								2	2
India			2			1	3	6	6
Israel		1	1		1			2	5
Lithuania								1	1
Malaysia								1	1
Mexico	1		1		1	2		6	11
Morocco								2	2
Russia			1			2	4	7	7
Singapore								1	1
Slovenia		1						1	1
South Africa	1	1				3		4	9
Thailand					1			1	1
Ukraine							1	1	1
United Arab Emirates								1	1
Venezuela						1		1	1
Non-IEA	3	5	5		5	11	11	31	71
In IEA countries		3	4			37		11	55
In non-IEA countries						8		1	9
Sponsors		3	4			45		12	64
EC	1	1				2	8	7	19
OPEC						1			1
UNIDO								1	1
Intl. Organisations	1	1				3	8	8	21
TOTAL	43	83	54	21	55	124	45	195	620

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What is an Implementing Agreement (IA)?

- A flexible mechanism for collaborative RD&D and related topics
- A contract based on the principle of equitable sharing of rights and obligations between governments, the private sector, IGOs/NGOs
- All technologies – supply and demand
 - Cross-cutting activities
 - Energy efficiency (buildings, electricity, industry, transport)
 - Fossil fuels
 - Renewable energies and hydrogen
 - Fusion power

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What are the Benefits?

- Linking research, industry and policy
- Reduced cost and duplication of work
- Greater project scale
- Accelerated development and deployment
- Harmonised technical standards
- Strengthened national RD&D capabilities
- Intellectual property rights
- Information sharing and networking
- Linking IEA member countries and non-member countries

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What do these groups accomplish?

Almost anything is feasible:

- Planning and coordination of energy technology RD&D studies, works or experiments at national or international level
- Participation in the operation of research or pilot facilities and equipment provided by a participant, or their joint design, construction and operation
- Exchange of information
- Exchanges of scientists, technicians or experts
- Joint development of energy related technologies
- Any other energy technology-related activity

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Financing Implementing Agreements

Financing is shared between the participants

COST SHARING

- ✓ Participants contribute to a common administrative fund
- ✓ Work contracted to general manager and results are shared by all participants

TASK SHARING


- ✓ Participants devote specified resources and personnel administration as well as research projects

COMBINATION

- ✓ Participants contribute to a common administrative fund
- ✓ Participants devote specified resources and personnel to research projects
- ✓ Other....

Each group establishes bank accounts, maintains accounting systems, and collects annual fees and related costs

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Operating Rules for Implementing Agreements


The IEA Framework for International Energy Technology Co-operation* sets forth the minimum requirements:

- Mandate
- Nature of the Agreements
- Participation and withdrawal
- Copyright
- Intellectual property
- Reporting requirements
- Specific provisions concerning the structure of each programme

Each IA may choose more restrictive or detailed operating rules

*Approved by the IEA Governing Board June 2003.

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Creating or Closing

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- **A new Implementing Agreement can be created at any time, provided that:**
 - It is established by at least two IEA member countries
 - The scope, strategic plan and work plan agree with the *Shared Goals* of the IEA
 - The CERT and the IEA Governing Board have given their approval
- **An Implementing Agreement can be closed at any time, provided that:**
 - All participants unanimously agree



Contacts

- ▶ Energy Security
- ▶ Environmental Protection
- ▶ Economic Growth
- ▶ Engagement Worldwide

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For more information on Implementing Agreements:
www.iea.org/techagr

For more information on the Platform
<http://www.iea.org/Platform/>