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Building a S&T International Co-operation Strategy in the EU Energy thematic area

EU – India Wind Energy Events: Sharing
Business and Technological Know-how
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European Commission, DG Research – Dir. Energy

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K1 – Horizontal and Coordination Aspects

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Why a Strategy ?

- **Global nature** of the energy challenges, threats and opportunities
- International Cooperation **dimension** of the energy research policy
- Support to EU **energy/environment policy** objectives and other EU external relations policies
- ∅ **Need for a coherent overall strategy for S&T**
International cooperation reinforcing **consistency**
and full exploitation of **synergies** between EU
activities and Member States



Objectives of the Strategy

- To better target the **priority countries or regions** for the International Cooperation
- To identify relevant implementation actions at **institutional, policy and S&T levels**
- To provide an **improved visibility** on the possible **priority S&T areas or topics** for International Cooperation based **mutual interest and benefit**
- ∅ **Indications to better directing and concentrating efforts** while taking human and financial resources available.



Country differentiation

- Different research needs, specificities
- Ø Distinct approaches for:
 - è *Industrialised countries (US, JPN, CA, AU)*
 - è *Emerging economies (CN, India, BR, RU, ZA, MX)*
 - è *Developing countries (ACP, ASIA, EECA, MPC, WBC)*
- ü *(regional and sectoral approach also based on S&T, geopolitical, cultural, social, strategic/economic criteria)*



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EU energy concerns and views

- è **Sustainable development of energy systems**
- è **Security of energy supply and Climate Change**
- è **Competitiveness of Industry**

Balancing Cooperation, and Competition is key in S&T International cooperation



International Cooperation State of Play

- **ITER:** joint international R&D project that aims to demonstrate the scientific and technical feasibility of fusion
- At bilateral level
 - ∅ *Participation in regular dialogues under S&T agreements based on reciprocity and mutual interest*
 - ∅ *Organisations of Specific S&T actions*
 - ∅ *Participation in regular Energy/Environment Dialogues when S&T and energy Strategies are addressed*
 - ∅ ***Very little translated into ambitious actions !!!***
- At multilateral level
 - ∅ *Implementing Agreement of the IEA*
 - ∅ *International Partnership for the **Hydrogen Economy** (IPHE)*
 - ∅ ***Carbon Sequestration Leadership Forum (CSLF)***

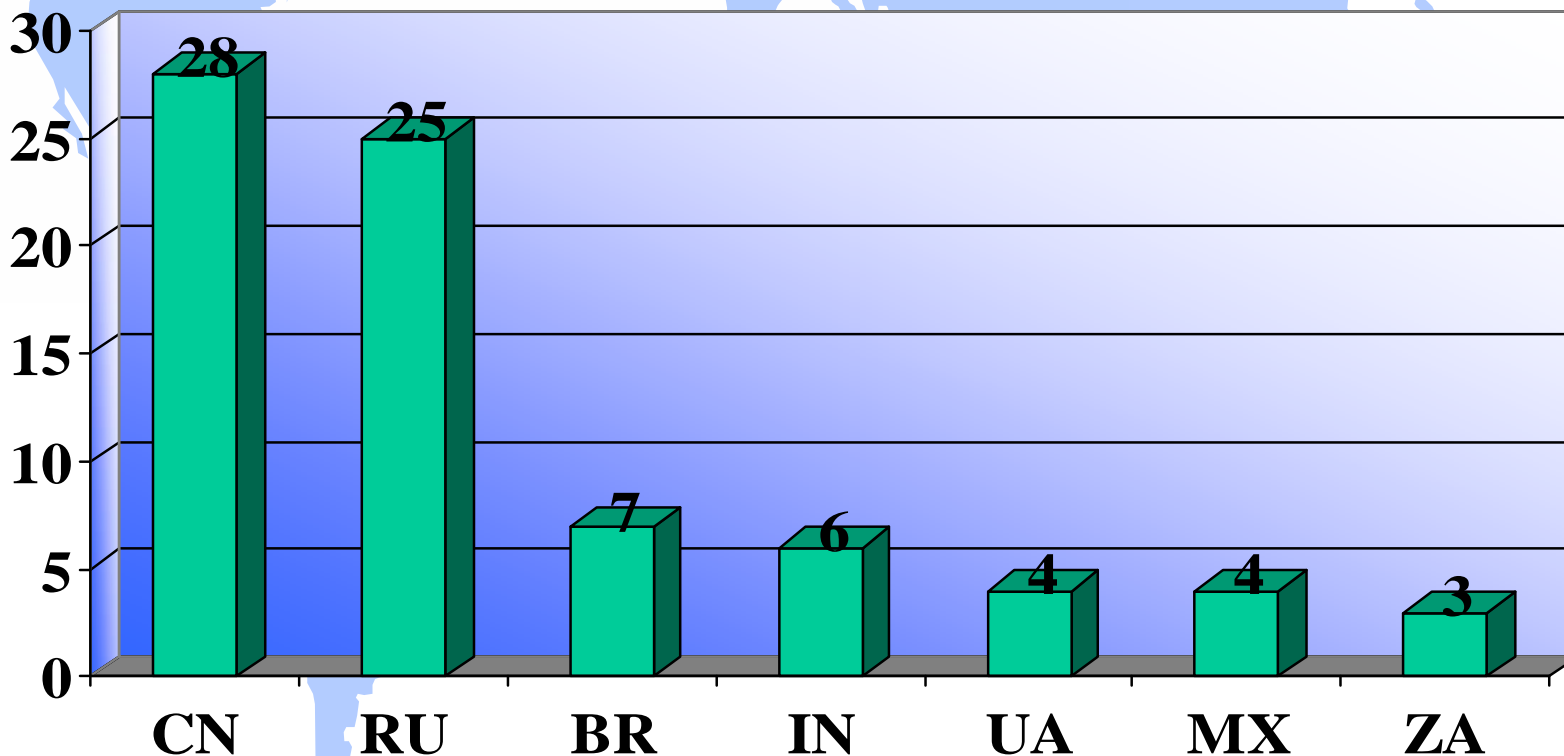


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Participation Third countries Thematic Energy area within FP6

Number of Participation in selected projects





Strategic orientations

- û **Strengthen the bi-lateral international cooperation with countries or regions with a S&T cooperation agreement and presenting a clear strategic interest for energy**
 - ∅ **Industrialised countries - US, CA and AU**
 - ∅ **Emerging and developing countries (targeted ICPC) – RU, CN, India, BR/MX/CI/AR, Egypt and Ukraine (neighbouring context of Mediterranean and Black sea region)**

- û **Promote the participation of third countries entities in EU RTD actions on ad-hoc basis, considering the added value (targeted budget for FP7 ?)**



Strategy implementation

û Political/Institutional

- ∅ Valorisation of the political framework around the ones **S&T agreements** to promote bi-lateral cooperation in energy
- ∅ Participation more 'systematically' of DG RTD in bi-lateral political **energy/climate change dialogue** led by other DGs
- ∅ Creation of opportunities (+ implementation mechanisms) to enhance more **ambitious concrete joint actions** with key International energy partners such as US, Russia, China, **India** or Brazil (in bi or multi partnership configuration !!)
- ∅ Intensification of **bi-lateral dialogue** with targeted partners (US, Russia, China, **India** or Brazil) while continuation of **multi-lateral cooperation** through IEA, IPHE and CSLF – to enhance global influence



Strategy implementation

- ü Scientific/Technological activities
- ∅ Preparation, implementation of **strategic research activities** in support to research policy making and other policies
 - ∅ With targeted ICPC (support to SICA within FP7)
 - ü Strategic studies (**mutual benefit, barriers** analysis, ..)
 - ü **Impact, risk** assessment
 - ∅ With emerging/developing countries
 - ü **Technology transfer** and **capacity building** assesment (Kyoto JI, CDM, EUEI)



Strategy implementation

- û Scientific/Technological activities
- ∅ Organisation of S&T seminars/conferences
 - ∅ With **targeted third countries** to exchange information, explore and develop new cooperation on energy technology and strategy research topics
 - ü To support definition of policies
 - ü To increase third country participation in FP7 and improve quality of EU proposals and vice-versa
 - ü To develop large, and ambitious goal oriented initiatives with US, China, **India** or Brazil (through bi or multi partnerships) and co-funded by participating regions
 - ∅ With **targeted ICPC** to develop **SICA** within FP7 and advice on organisation of coordinated calls



Strategy implementation

- û **Scientific/Technological activities**
- ∅ **Promotion of third countries participation in FP7 (info days, visitors, etc...)**
- ∅ **Regular consultation with EU Advisory groups, Technology Platforms**
- ∅ **Support to EC delegations**
- ∅ **Reinforcement of FP7 NCP energy networks with third country participation**
- ∅ **Integration the International Cooperation within the Dissemination/Communication Strategy of the energy research policy and implementation**



Actions in support to strategy implementation Cooperation through FP7 Energy WP

- *“Opening up” of activities to third countries participation*
 - ü **Opening**: all topics are open to the participation of third countries or regions
 - ü **Opening +**: topics for which the participation of third countries or regions is explicitly encouraged, particularly those engaged on strategic dialogues, partnerships or agreement.
 - ∅ **ICPC** may be funded in general, while Industrialised countries only if specified in the work programme
 - ∅ The third country partner is in addition to the legal minimum consortium of 3 legal entities MS/AC for collaborative projects or of 1 legal entities MS/AC for CSA



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FP 7 energy thematic programme

1st Call

Ø **“Open up”** topics addressing **India**

è Collaborative projects on **H2/FC** open to **IPHE countries**

è Collaborative projects on **Clean Coal** and/or **CCS** open to **CSLF countries**

è Collaborative projects on **Wind forecasting**



Actions in support to strategy implementation

Cooperation through FP7 Energy WP – 1st Call

- Ø **'Step by Step'** approach supported by Specific actions addressing targeted ICPC including **India**
- è **ERA NET on International Cooperation**
- è **Support to the promotion of International Cooperation**
- è **Support to the development of strategies on Energy technology Transfer and capacity building (SICA)**



International cooperation FP 7 energy thematic programme

- *Specific International Cooperation Actions*
 - ü topics especially designed and devoted to the international cooperation **with targeted countries or regions of the ICPC list** including **India** and for which the SICA rules for participation (2 + 2) do apply
 - Ø Priorities for activities are identified through **dialogues** with ICPC and based on mutual interest and benefit: **EC and ICPC to deliver !**
 - Ø At least 4 legal entities: **2 MS/AC + 2 ICPC.**
 - Ø Specific **evaluation criteria**
 - Ø Indicative **allocated budget**



Implementation of the FP7 Energy thematic area

- Ø **First Calls (RTD and TREN): 22/12/06**
 - è **Deadline: 02/05/2007 (RTD) – July 2007 (TREN)**
 - è **Indicative Budget: ~ 238 M€**

- Ø **Revision of WP in 2007:**
 - è **Second Call (RTD): 2008**
 - è **Indicative Budget: 50 M€**
 - ü **Notably to reinforce the Specific International Cooperation Actions (SICA)**

- Ø **Identification of SICAs during 1st semester 2007 notably from assessment and valorisation of outcomes from past and on-going EU-ICPC S&T dialogues**



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Staying informed

Energy Research web site and Energy Helpdesk:

http://europa.eu.int/comm/research/energy/index_en.html
rd-energy@cec.eu.int

Energy Policy

http://europa.eu.int/comm/energy/index_en.html

Calls for proposals

<http://fp6.cordis.lu/fp6/calls.cfm>



Towards Seventh Framework Programme

http://europa.eu.int/comm/research/future/index_en.html

Newsletter, Information days and similar events, conferences

<http://europa.eu.int/comm/research/energy/pdf/renews4.pdf>

http://europa.eu.int/comm/research/energy/gp/gp_events/action/article_2790_en.htm

European Hydrogen and Fuel Cell Technology Platform

www.HFPeurope.org



Joint Research Centre

<http://www.jrc.cec.eu.int>



RENEWABLE ENERGIES FOR EUROPE
RESEARCH IN ACTION



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A light blue silhouette of a world map serves as the background for the central text.

Thank you

Thank you

Directorate-General for Research
Directorate K - Energy

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