

# **European Commission Update**

## **IPHE Steering Committee Meeting**

Vancouver, 28th March 2006

---

**Pablo Fernandez Ruiz**  
**Director Energy Research**

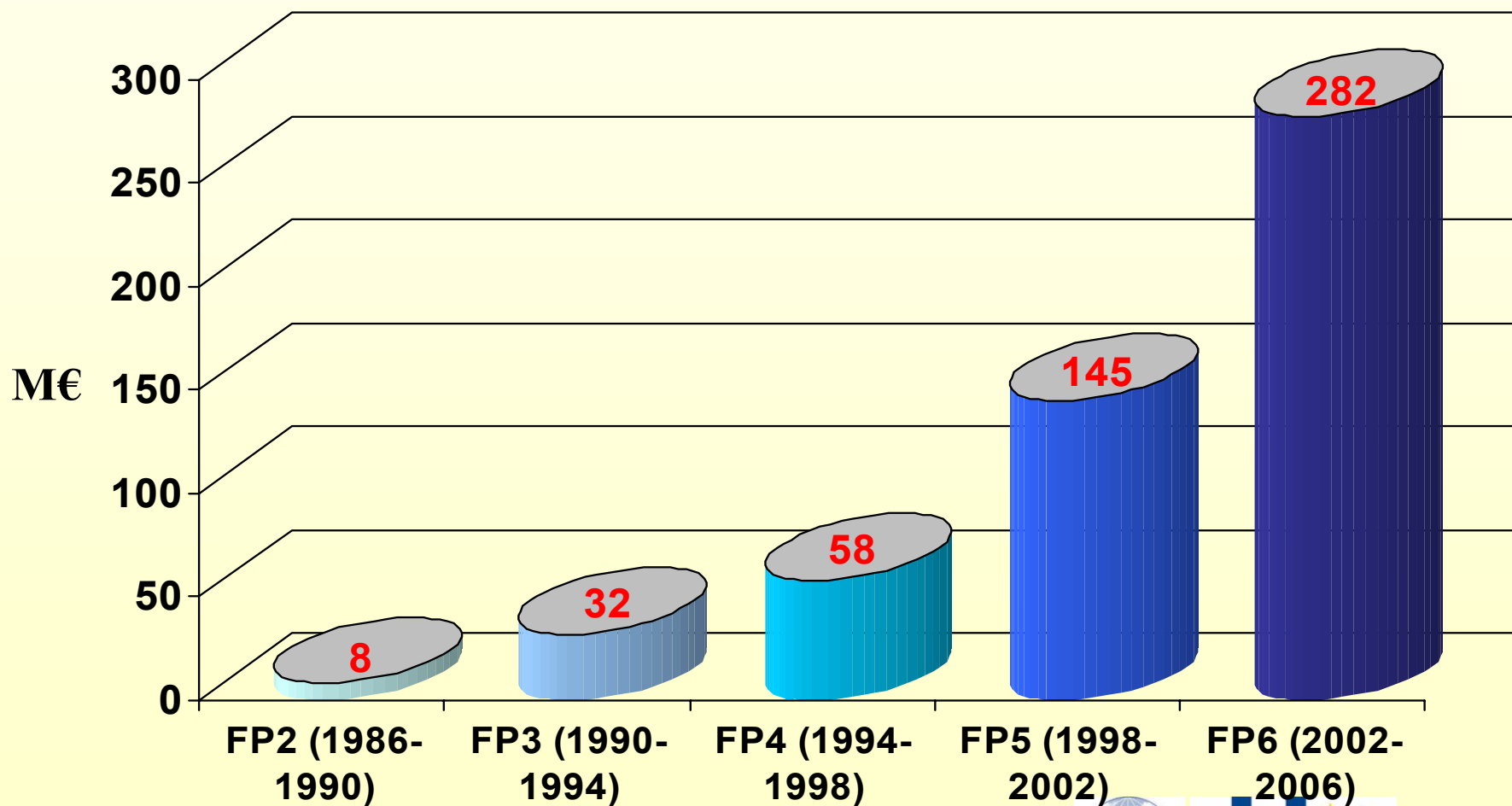


1. Update on European Union policy developments
2. RTD&D on Hydrogen and Fuel Cells in FP6
3. Evolution of the European Hydrogen and Fuel Cell Technology Platform.
4. 7th Framework Programme (FP7)
5. Progress on Joint Technology Initiative for Hydrogen and Fuel Cells
6. European Commission contribution to IPHE activities
7. Concluding remarks on IPHE process

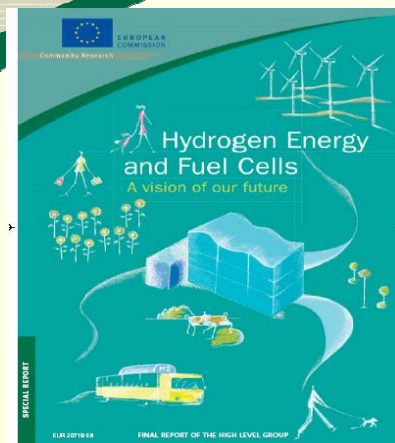
## 7th Framework Programme (2007-2013)

- **Proposal** for Directive on promotion of clean road transport vehicles
  - public bodies allocate a 25% quota of annual procurement to enhanced environmentally friendly vehicles (EEV)
  - applies to utility vehicles > 3.5tonnes (eg buses, refuse trucks)
- **Green Paper on Secure, Competitive and Sustainable Energy for Europe**
- **CARS21: High Level Group Final Report**
  - “A competitive Automotive Regulatory System for the 21st Century;
  - addresses regulatory issues in respect of environment, road safety, trade and competitiveness, R&D, taxation, IPR

# EC Support to Fuel Cell and Hydrogen RTD in Framework Programmes

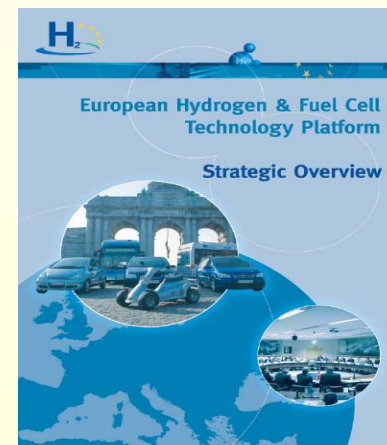


# From High Level Group to Technology Platform

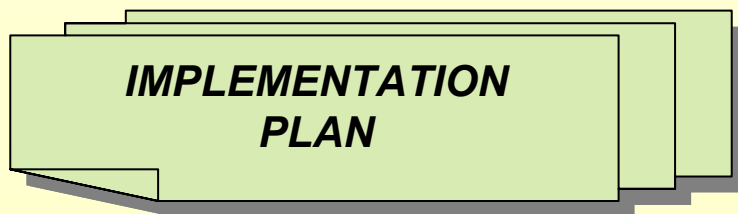


**VISION**  
(2003)

**STRATEGY**  
(2005)



**IMPLEMENTATION**  
(2006)



**Implementation Panel**

# European Technology Platform

- ✓ Strategic Research Agenda (SRA)
- ✓ Deployment Strategy (DS)
- ✓ **Implementation Panel** – building on SRA, DS; identifying concrete actions and assimilating work of platform Initiative Groups on:
  - ✓ Regulations Codes and Standards
  - ✓ Education and Training
  - ✓ Public Awareness
  - ✓ Finance and Business Development
- ✓ Preparing for a Joint Technology Initiative



<https://www.hfpeurope.org/hfp/keydocs>

# EU Joint Technology Initiative – JTI

- ✓ JTI – proposal for long term European public-private partnership systematically addressing H2 and FC technology challenges.
- ✓ Leveraging resources from a variety of sources – EU, Member States, Regions, private industry
- ✓ JTI will define objectives, manage RTD and Demo programs - to advance from basic research through application, demonstration and validation in real operating conditions
- ✓ Support for JTI received from wide range of stakeholders and sectors





# EC contributions to the IPHE

- × EC-JRC leads Task Force on regulations codes and standards;
- × Co-chair Evaluation Team;
- × Hosted IPHE workshops on fuel cell testing; bus demonstrations (Porto); hydrogen storage (Lucca); hydrogen safety (Pisa), hydrogen from RES (Seville);
- × Four IPHE recognised projects from 1st round, covering hydrogen pathway analysis, safety, distribution, Fuel Cell testing, bus demonstrations;
- × 4th Call Energy RTD : negotiating 4 extensions to ongoing RTD projects to significantly enhance IPHE dimension (~1.9m€);
- × EC submitted 7 new proposals for IPHE recognition on: FC membranes; H<sub>2</sub> production and storage; low power FC vehicles; extension of bus demonstration; benchmarking





# Opportunity for RTD collaboration

- ✗ New opportunity for organisations from IPHE partners that are also « targeted third countries » (TTC) to collaborate/contribute to running EC H2&FC contracts – Brazil, China, India, Russia
- ✗ Budget for call : 3.2m€
- ✗ Details of Call (ref. FP6-2006-TTC-TU-Priority-6-1):
  - ✓ [http://fp6.cordis.lu/index.cfm?fuseaction=UserSite.FP6DetailsCallPage&call\\_id=278](http://fp6.cordis.lu/index.cfm?fuseaction=UserSite.FP6DetailsCallPage&call_id=278)
- ✗ Closing date: 16th May 2006; strictly 17.00hrs (BxIs)
- ✗ Details of running EC contracts and co-ordinators' contacts at
  - ✓ [ftp://ftp.cordis.lu/pub/fp6/docs/calls/sustdev/energy/f1b\\_priority\\_6-1\\_projects\\_en.pdf](ftp://ftp.cordis.lu/pub/fp6/docs/calls/sustdev/energy/f1b_priority_6-1_projects_en.pdf)
- ✗ Commission provided project synopses and details to IPHE Secretariat for circulation.

# Hydrogen and Fuel Cell Technology Platform Events

- × **European Hydrogen and Fuel Cell Technology Platform Third General Assembly and Exhibition**
- × **Dates: 4-6 October 2006**
- × **Location: Brussels**

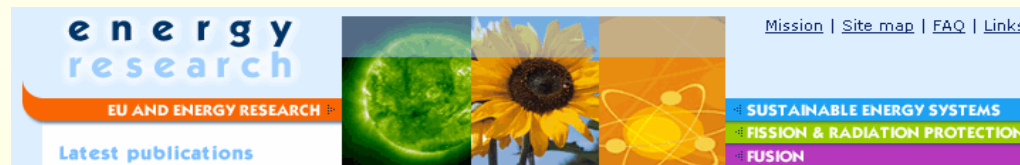
# Concluding Remarks

- ✗ EC committed to IPHE process, welcomes opportunity for deepening collaboration through linking and expanding IPHE recognised projects
- ✗ Processes for generating new projects and activities must be facilitated; keep evaluation and monitoring informal and simple
- ✗ Avoid proliferation of groups which strains resources
- ✗ IPHE « events » a success, but need to raise awareness of IPHE - emphasising benefits
- ✗ SC needs to strengthen its strategic role, ensuring government representation; EC supports priority scorecard process
- ✗ SC should explore options for funding specific IPHE actions
- ✗ Should be open to new members, maintaining rigorous selection criteria – but need to streamline decision making
- ✗ Avoid closed shop - explore « other means » - Associates, Observers;



# Staying informed

**Energy Research web site and Energy Helpdesk:**  
[http://europa.eu.int/comm/research/energy/index\\_en.html](http://europa.eu.int/comm/research/energy/index_en.html)  
[energy@cec.eu.int](mailto:energy@cec.eu.int)



**Energy Policy**  
[http://europa.eu.int/comm/energy/index\\_en.html](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](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](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](http://www.HFPeurope.org)



**Joint Research Centre**  
<http://www.jrc.cec.eu.int>



# European Commission position on IPHE issues

# Comment on Discussion Paper « A Strategic Approach »

- ✗ SC has key role in strategic decision making, but need streamlined procedures – Executive Committee could help
- ✗ 1 SC meeting a year plus option joint SC/ILC?
- ✗ SC must establish itself as **the “steering” body**, recognising strong interaction with ILC
- ✗ IPHE Members ***must*** be represented in SC by managers representing governments and with budget responsibility
- ✗ EC supports priority scorecard process; EC has some suggestions for priorities



# Funding of IPHE Activities

- × **Funding IPHE actions** : SC should explore criteria, processes and instruments for funding *specific IPHE collaborative* actions
- × General principle: *use existing programmes and instruments where possible* (i.e. continue with current project recognition/linking)
- × **Priority areas for collaboration** will be identified at IL meeting at Lyon through Priority Scorecard process; EC will propose critical objectives and RTD&D actions





# IPHE Membership Discussion Paper

- ✗ EC welcomes comprehensive paper
- ✗ Believes IPHE should be open
- ✗ Favours option 3 – open to newcomers, but maintain rigorous selection criteria
- ✗ To avoid « closed shop » image, option 3 should be combined with « other means »
- ✗ Need to develop further concepts for Associates and Observers, for both SC and ILC
- ✗ Executive Committee, could be positive
- ✗ IPHE Colloquia – TF, yes but should we first resolve roles of SC and ILC

