

Status report of the preparation of JTI Strategic Activity Plan and the First Annual Plan

Frank de Bruijn
Brussels, 17th March 2008



The process

- At the general assembly of the RG in Paris (mid Dec 2007), WG chairs for each IDA were proposed, and those who were interested could join the working groups.
- 4 working groups have made proposals how to divide the available budget for R&D over prioritised activities for each IDA.
- The WG chairs, or their representatives, have participated in 3 workshops with the Industry Grouping Committees and FCH Instruct, in order to reach consensus on the Strategic Activity Plan and First Annual Plan.



General Outcome

- Working groups within Research Grouping have drafted Research priorities that fitted in the JTI budget
- Priorities of RG have broadly been included in JTI Research Agenda
- Scenarios for baseline funding as well as 125% funding have been made
- RG input was highly appreciated by Industry Grouping



Hydrogen Vehicles and Refuelling stations IDA 1

- Leader: Steffen Moller-Holst, SINTEF
members:
Allan S. Pedersen (Risoe)
Deborah Jones (U Montpellier)
Fernando Isorna Llerena (INTA)
Nicolas Bardi (CEA)
Fabio Orecchini (U Roma)
Ronald Mallant (ECN)
Andreas.Friedrich (DLR)
Felix Buechi (PSI)



Hydrogen Vehicles and Refuelling stations IDA 1

- Total budget: 324 M€
- Research Budget: 94 M€ (+24 M€ in 125% scenario)
 - PEMFC membranes, catalysts, bipolar plates (31 M€)
 - Degradation phenomena (9 M€)
 - The European Fuel Cell Stack (18 M€)
 - Hydrogen storage (16 M€)
 - Peripherals (11 M€)
 - H2 ICE (5 M€)
 - Hydrogen refuelling station & components (4 M€)



Sustainable Hydrogen Production and Supply_IDA 2

- **Leader: Paul Lucchese, CEA**
 - Manos Zoulias (CRES)
 - Michel Latroche (CNRS)
 - Marcello Baricco (U Torino)
 - Felipe Rosa Iglesias (INTA)
 - christian.sattler (DLR)
 - Jungmeier, Gerfried (Joanneum)
 - Manuel Romero (CIEMAT)
 - Vincenzo Naso (Uni Roma)
 - Soren Linderth (Risoe)



Sustainable Hydrogen Production and Supply_IDA 2

- Total budget: 90 M€
- Research Budget: 50,7 M€ (+11 M€ in 125% scenario)
 - Reforming and Gas Cleanup (9 M€)
 - Electrolysers (16,2 M€)
 - Long term H2 production technologies (12 M€)
 - Solid state H2 storage (8,5 M€)
 - Pipelines and underground storage (5 M€)



Fuel Cells for CHP and Power Generation IDA 3

- Leader: Rolf Rosenberg, VTT
 - Bert Rietveld (ECN)
 - Robert Steinberger (FZJ)
 - Maurizio Verga (CESIRICERCA)
 - Azkarate Peña Iñaki (Inasmet)
 - Florence Lefebvre Joud (CEA)
 - Enrico Bocci (U Roma)
 - Angelo Morena (ENEA)



Fuel Cells for CHP and Power Generation IDA 3

- Total budget: 176 M€
- Research Budget: 105 M€ (+ 12 M€ in 125% scenario)
 - Degradation & Lifetime fundamentals (10 M€)
 - Controls, Modelling, Diagnostics, Analysis (13 M€)
 - Components & system development (37 M€)
 - System application readiness (30 M€)
 - New materials (10 M€)
 - Next generation designs (5 M€)



Fuel Cells for Early markets IDA 4

- Leader: Angelika Heinzl, ZBT
 - Claude Lamy (U Poitiers)
 - Carmen Garcia (INTA)
 - Laurent Antoni (CEA)
 - Gunther Kolb (IMM)



Fuel Cells for Early markets IDA 4

- Total budget: 144 M€
- Research Budget: 25 M€ (+20 M€ in 125% scenario)
 - Stationary Durability (8 M€)
 - Micro Fuel Cell durability (4 M€)
 - Miniaturised BoP (3 M€)
 - Fuel Supply for Micro FC (6 M€)
 - Advanced Manufacturing & Testing technologies (2,5 M€)
 - Feasibility study European Small Power Stack (1,5 M€)



Cross cutting issues

- Will be coordinated by Herbert Wancura
- Budgets needs to be accomodated in IDA 1-4
 - Regulations, codes and standards (8,7 M€)
 - Socio economic planning tools (3 M€)
 - SME promotional (15,5 M€)
 - Educational actions (1,5 M€)
 - Public awareness (3 M€)



Next steps

- Solve remaining issues
- Improve planning of the activities, such that they fit with the available budgets over time (IG and RG chairs)
- Preparation of the first call



Calendar

- 31st March: remaining issues solved
- 4th April: Final planning documents ready
- 15th April: review meeting with Commission
- 30th April: 1st call descriptions ready



Acknowledgements

- Thanks to the IDA chairs and the WG members, the RG has accomplished that our R&D priorities are included in the JTI program, and even to an increase in the proposed R&D budgets

