

WP 4: Developing an aggregated market of 3.000 RES-FCSH units

Kick off meeting 6 -7 March 2006



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Market driven innovation and commercialisation of hydrogen technologies

Objectives

- to obtain economic improvement of 40 – 50 % by moving from single units to larger series
- result: price of max. EUR 5.000 / kWe*

* Low temperature PEM fuel cell



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Deliverables

- Overall report on improvements of economic performance due to trans-regional cooperation (HIRC)
- Reports for each main technology element of RES-FCHS: 6 technologies
 - Wind/H₂-fuel cells
 - Biogas-fuel cells
 - Methanol-fuel cells
 - Fuel cell systems
 - Fuel cell technology
 - Electrolysers
- Reports from each region on effect of reduced costs and improved framework conditions:
 - Wind/H₂** in Jutland (DK), Schleswig-Holstein (DE), North Friesland (NL), Navarra-Basque (ES) and Coimbra (PT)
 - Biogas** in Jutland (DK) and Baden-Württemberg (DE)
 - Methanol** in Jutland (DK), Reykjavik (IS) and Baden-Württemberg (DE)
- Report including main findings and recommendations from WP4, which can be assimilated by Roads2HyCOM into the relevant activities

Deliverables (2)

D.4.1	Improvement of economic performance through an aggregated market of 3,000 RES-FCHS units	100 reports	30-40 p.	Internal, EC, interested regional partners, end-users and industry	HIRC	Month 24
D.4.2	Reports of 6 technologies of RES-FCHS	100 reports	60-70 p.	Internal, EC, interested regional partners, end-users and industry	HIRC	Month 24
D.4.3	Reports from each of 10 regional markets	100 reports	60-70 p.	Internal, EC, interested regional partners, end-users and industry	HIRC	Month 24
D.4.4	Report with WP34 inputs for Roads2HyCom	Report	--	Internal, EC, Roads2HyCom project	HIRC + ECN	Month 24

Deadline for reports: December 2007

Proposed deadline for input: ?

Deadline



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Tasks (1)

In charge of establishing common platform for negotiations with suppliers of technology:

CENER - wind/H₂

IBBK - biogas

Elsam - methanol

IRD - fuel cells

Dantherm - fuel cell systems

BIC - electrolyser

Tasks (2)

Responsible for regional synergies and reporting on implementation and improvements obtained on the regional level :

- HIRC - wind/H2, Jutland, DK
- UoI - Methanol, Reykjavik, IS
- ISR-UC - wind/H2, Coimbra-region, PT
- AAU - biogas, Jutland, DK
- CENER - wind/H2, Navarra-Basque, ES
- ECN - Wind/H2, North Friesland, NL
- IBBK - biogas, Baden-Württemberg, DE
- Elsam - methanol, Jutland, DK
- KIBZ - methanol and wind/H2, DE

Performance indicator for WP 4

Minimum cost reduction of **40 %**



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