



2nd FCH Joint Undertaking Brokerage Event

Breakout session

Early Markets

Rational

In order to continue European efforts of commercialising use of hydrogen and fuel cells for industrial and specialty vehicles, **demonstration projects comprising hydrogen powered fuel cell vehicles and supporting hydrogen refuelling infrastructure are essential** for demonstrating customer value propositions.

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Budget Call 2010

Application Area	Budget (Million euro)
Transportation & Refuelling Infrastructure	31.6
Hydrogen Production & Distribution	11.0
Stationary Power Generation & CHP	33.0
Early Markets	11.5
Cross-cutting Issues	2.0

6 Topics:

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Topic 1

No	Topic	Description
18	Demonstration of fuel cell-powered materials handling vehicles including infrastructure II	Demonstration of early market solutions for fuel cell powered industrial and specialty vehicles, in particular material handling vehicles (Fork lift trucks, stackers, moving cranes, etc.). SP1-JTI-FCH.2010.4.1, S. 30

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Topic 2

No	Topic	Description
19	Demonstration of industrial application readiness of fuel cell generators for power supply to telecom stations, including the hydrogen supply solution	Demonstration of fuel cell and hydrogen systems for stand alone telecom stations including hydrogen supply solution. Minimum 20 sites.

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Topic 3

No	Topic	Description
20	Fuel supply concepts for portable and micro fuel cells	Research and development in the field of hydrogen supply concepts for micro fuel cells and portable applications of up to 5 kW. A fully integrated system demonstrating the proof-of-concept including logistical distribution aspects is required.

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Topic 4

No	Topic	Description
21	Components with advanced durability for Direct Methanol Fuel Cells	RTD to develop improved components demonstrating superior durability vis-à-vis state-of-the-art while at the same time lowering the cost/kW for Direct methanol Fuel Cells.

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Topic 5

No	Topic	Description
22	RTD on new portable and micro Fuel Cell solutions	RTD to develop novel portable and micro Fuel Cell Solutions (Low and High temperature) targeted to meet specific application requirements.

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Topic 6

No	Topic	Description
23	PNR on the indoor use of hydrogen and fuel cells Pre-normative research on power grid integration and management of fuel cells for residential CHP, commercial and industrial applications	Provide the scientific base for defining and justifying cost effective safety strategies specific to the use of hydrogen and fuel cells indoors or in confined spaces, with power ratings between 200W and 50kW.

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