Call title: FCH JU Call for Proposals 2011 Part 1

Call identifier: FCH-JU-2012-1

Publication date: 17 January 2012

Deadline: 24 May 2012 at 17.00 hours (Brussels local time)

Indicative budget: EUR 77.5 million from the FCH JU 2012 budget[1].

The final budget awarded to this call, following the evaluation of projects, may vary by up to 10% of the total value of the call.

All budgetary figures given in this call are indicative. The repartition of the sub-budgets awarded within this call, following the evaluation of proposals, may vary by up to 10% of the total value of the call.

Topics called:

Area/ Topics called	**Funding Schemes**	**Indicative FCH JU Funding Million €**
Area SP1-JTI-FCH.1: Transportation & Refuelling Infrastructure		**26.0**
SP1-JTI-FCH.2012.1.1 Large-scale demonstration of road vehicles and refuelling infrastructure V	Collaborative Project	
SP1-JTI-FCH.2012.1.2 Next Generation European Automotive Stack	Collaborative Project	
SP1-JTI-FCH.2012.1.3 Compressed hydrogen on board storage (CGH2)	Collaborative Project	
SP1-JTI-FCH.2012.1.4 Development of peripheral components for automotive fuel cell systems	Collaborative Project	
SP1-JTI-FCH.2012.1.5 New catalyst structures and concepts for automotive PEMFCs	Collaborative Project	
SP1-JTI-FCH.2012.1.6 Fuel cell systems for airborne application	Collaborative Project	

[1] The funding includes the FCH JU's own budget only. The final total funding for projects is expected to be increased by EFTA contributions.

Area/ Topics called	Funding Schemes	Indicative FCH JU Funding Million €
SP1-JTI-FCH.2012.1.7 Recommendations for the measurement of the quantity of hydrogen delivered and associated regulatory requirements	Coordination and Support Actions (Supporting Action)	
Area SP1-JTI-FCH.2: Hydrogen Production & Distribution		**8.75**
SP1-JTI-FCH.2012.2.1 Demonstration of MW capacity hydrogen production and storage for balancing the grid and supply to vehicle refuelling applications	Collaborative Project	
SP1-JTI-FCH.2012.2.2 Demonstration of hydrogen production from biogas for supply to vehicle refuelling applications	Collaborative Project	
SP1-JTI-FCH.2012.2.3 Biogas reforming	Collaborative Project	
SP1-JTI-FCH.2012.2.4 New generation of high temperature electrolyser	Collaborative Project	
SP1-JTI-FCH.2012.2.5 Thermo-electrical-chemical processes with solar heat sources	Collaborative Project	
SP1-JTI-FCH.2012.2.6 Pre-normative research on gaseous hydrogen transfer	Collaborative Project	
Area SP1-JTI-FCH.3: Stationary Power Generation & CHP		**27.0**
SP1-JTI-FCH.2012.3.1 Cell and stack degradation mechanisms and methods to achieve cost reduction and lifetime enhancements	Collaborative Project	
SP1-JTI-FCH.2012.3.2 Improved cell and stack design and manufacturability for application specific requirements	Collaborative Project	
SP1-JTI-FCH.2012.3.3 Robust, reliable and cost effective diagnostic and control systems design for stationary power and CHP fuel cell systems	Collaborative Project	
SP1-JTI-FCH.2012.3.4 Component and sub-system cost and reliability improvement for critical path items in stationary power and CHP fuel cell systems	Collaborative Project	
SP1-JTI-FCH.2012.3.5 System level proof of concept for stationary power and CHP fuel cell systems at a representative scale	Collaborative Project	
SP1-JTI-FCH.2012.3.6 Validation of integrated fuel cell system for stationary power and CHP fuel cell systems	Collaborative Project	
SP1-JTI-FCH.2012.3.7 Field demonstration of large scale stationary power and CHP fuel cell systems	Collaborative Project	

Area/ Topics called	Funding Schemes	Indicative FCH JU Funding Million €
SP1-JTI-FCH.2012.3.8 Field demonstration of small scale stationary power and CHP fuel cell systems	Collaborative Project	
Area SP1-JTI-FCH.4: Early Markets		**10.25**
SP1-JTI-FCH.2012.4.1 Demonstration of fuel cell powered material handling equipment vehicles including infrastructure	Collaborative Project	
SP1-JTI-FCH.2012.4.2 Demonstration of portable generators, back-up power and Uninterruptible Power Systems	Collaborative Project	
SP1-JTI-FCH.2012.4.3 Research and development on fuel supply concepts for micro fuel cell systems	Collaborative Project	
SP1-JTI-FCH.2012.4.4 Demonstration of portable fuel cell systems for various applications	Collaborative Project	
SP1-JTI-FCH.2012.4.5 Research and development of 1-10kW fuel cell systems and hydrogen supply for early market applications	Collaborative Project	
Area SP1-JTI-FCH.5: Cross-cutting Issues		**5.5**
SP1-JTI-FCH.2012.5.1 Hydrogen safety sensors	Coordination and Support Actions (Supporting Action)	
SP1-JTI-FCH.2012.5.2 Computational Fluid Dynamics (CFD) model evaluation protocol for safety analysis of hydrogen and fuel cell technologies	Coordination and Support Actions (Supporting Action)	
SP1-JTI-FCH.2012.5.3 First responder educational and practical hydrogen safety training	Coordination and Support Actions (Supporting Action)	
SP1-JTI-FCH.2012.5.4 Pre-normative research on fire safety of pressure vessels in composite materials	Collaborative Project	
SP1-JTI-FCH.2012.5.5 Assessment of safety issues related to fuel cells and hydrogen applications	Coordination and Support Actions (Supporting Action)	
Total indicative FCH JU Funding		**77.5**

Call for Proposals will be selective. There will be competition, based on quality and excellence, between proposals primarily, but nor exclusively, within activity areas, which may result in some topics not being supported in a given call.

Ranked lists of proposals will be established for each area. At the Panel stage, proposals from different topics with equal overall scores will be prioritised according to the overall FCH JU Annual Implementation Plan coverage. If they are still tied, they will be prioritised according to their scores for the S/T Quality criterion, then by their scores for the Impact criterion, and

then by their scores for the Implementation criterion. If they continue to be tied, other characteristics agreed by the Panel members should be taken into account.

Proposals from the same topic with equal overall scores will be prioritised according to their scores for the S/T Quality criterion. If they are still tied, they will be prioritised according to their scores for the Impact criterion, and then by their scores for the Implementation criterion. If they continue to be tied, other characteristics agreed by the Panel member should be taken into account.

A reserve list will be constituted if there are a sufficient number of good quality proposals. It will be used if extra budget becomes available.