



Seventh Framework Programme (FP7)

1. [ERCOSAM](#)

Title: Containment thermal-hydraulics of current and future LWRs for severe accident management

Research area: Fission-2009-7.0.3 Containment thermal-hydraulics of current and future LWRs for severe accident management.

Project start date: [2010-07-01]

2. [UNIFHY](#)

Title: UNIQUE gasifier for *hydrogen* Production

Research area: SP1-JTI-FCH.2011.2.3 Biomass-to-*hydrogen* (BTH) thermal conversion process

Project start date: [2012-09-01]

3. [CISTEM](#)

Title: Construction of Improved HT-PEM MEAs and Stacks for Long Term Stable Modular CHP Units

Research area: SP1-JTI-FCH.2012.3.1 Cell and stack degradation mechanisms and methods to achieve cost reduction and lifetime enhancements, SP1-JTI-FCH.2012.3.5 System level proof of concept for stationary power and CHP fuel cell systems at a representative scale

Project start date: [2013-06-01]

4. [SOL2HY2](#)

Title: Solar To *Hydrogen* Hybrid Cycles

Research area: SP1-JTI-FCH.2012.2.5 Thermo-electrical-chemical processes with solar heat sources

Project start date: [2013-06-01]

5. [HYTEC](#)

Title: *Hydrogen* Transport in European Cities

Research area: SP1-JTI-FCH.2010.1.1 Large-scale demonstration of road vehicles and refuelling infrastructure III

Project start date: [2011-09-01]

6. [COPERNIC](#)

Title: COst & PERformaNces Improvement for Cgh2 composite tanks

Research area: SP1-JTI-FCH.2012.1.3 Compressed *hydrogen* on board storage (CGH2)

Project start date: [2013-06-01]

7. [ACRES](#)

Title: Advanced control of renewable *energy* generation systems based on fuel cells\wind power

Research area: FP7-PEOPLE-2011-IIF Marie Curie Action: "International Incoming Fellowships"

Project start date: [2013-10-01]

8. [SFERA](#)

Title: Solar facilities for the European research area

Research area: INFRA-2008-1.1.2 Targeted approach: Integrated Activities to support the specific needs of thematic priority areas

- Project start date:** [2009-07-01]
9. [HYDROSOL-3D](#)

Title: Scale Up of Thermochemical *HYDROgen* Production in a SOLar Monolithic Reactor: a 3rd Generation Design Study
Research area: SP1-JTI-FCH-2.3 Water decomposition with solar heat sources
Project start date: [2010-01-01]
 10. [HYTRANSFER](#)

Title: Pre-Normative Research for Thermodynamic Optimization of Fast *Hydrogen* Transfer
Research area: SP1-JTI-FCH.2012.2.6 Pre-normative research on gaseous *hydrogen* transfer
Project start date: [2013-06-01]
 11. [BIOROBUR](#)

Title: Biogas robust processing with combined catalytic reformer and trap
Research area: SP1-JTI-FCH.2012.2.3 Biogas reforming
Project start date: [2013-05-01]
 12. [HEISTT](#)

Title: High Efficiency In Situ Treatment Technology for Contaminated Groundwater
Research area: SME-2 Research for SME associations
Project start date: [2010-10-01]
 13. [BIOANODE](#)

Title: Extracting electrical current from organic compounds in wastewater
Research area: FP7-PEOPLE-2011-CIG Marie-Curie Action: "Career Integration Grants"
Project start date: [2012-04-01]
 14. [PROTONICS](#)

Title: Mechanistic aspects of protons in hard materials for clean *energy* applications
Research area: FP7-PEOPLE-2011-CIG Marie-Curie Action: "Career Integration Grants"
Project start date: [2011-08-01]
 15. [H2FC](#)

Title: Integrating European Infrastructure to support science and development of *Hydrogen*- and Fuel Cell Technologies towards European Strategy for Sustainable, Competitive and Secure *Energy*
Research area: INFRA-2011-1.1.16. Research Infrastructures for *Hydrogen* & Fuel Cells facilities
Project start date: [2011-11-01]
 16. [CHIC](#)

Title: Clean *Hydrogen* in European Cities
Research area: SP1-JTI-FCH.2009.1.1 Large-scale demonstration of road vehicles and refuelling infrastructure II
Project start date: [2010-04-01]
 17. [NRFORHF](#)

Title: Development of Advanced Renewable Photocatalytic *Hydrogen* Generation Technology
Research area: FP7-PEOPLE-2012-IIF Marie Curie Action: "International Incoming Fellowships"
 18. [COCHALPEC](#)

Title: Development of electrodes based on copper chalcogenide nanocrystals for photoelectrochemical *energy* conversion
Research area: FP7-PEOPLE-2012-IEF Marie-Curie Action: "Intra-European fellowships for career development"

- Project start date:** [2013-06-01]
19. [HIGH V.LO-CITY](#)

Title: Cities speeding up the integration of *hydrogen* buses in public fleets
Research area: SP1-JTI-FCH.2010.1.1 Large-scale demonstration of road vehicles and refuelling infrastructure III
Project start date: [2012-01-01]
 20. [RESELYSER](#)

Title: *Hydrogen* from RES: pressurised alkaline electrolyser with high efficiency and wide operating range
Research area: SP1-JTI-FCH.2010.2.1 Efficient alkaline electrolysers
Project start date: [2011-11-01]
 21. [REFORCELL](#)

Title: Advanced Multi-Fuel Reformer for Fuel Cell CHP Systems
Research area: SP1-JTI-FCH.2010.3.3 Component improvement for stationary power applications
Project start date: [2012-02-01]
 22. [SUAV](#)

Title: Microtubular Solid Oxide Fuel Cell Power System developement and integration into a Mini-UAV
Research area: SP1-JTI-FCH.2010.4.5 RTD on new portable and micro Fuel Cell solutions
Project start date: [2011-12-01]
 23. [ELYGRID](#)

Title: Improvements to Integrate High Pressure Alkaline Electrolysers for Electricity/H₂ production from Renewable Energies to Balance the Grid.
Research area: SP1-JTI-FCH.2010.2.1 Efficient alkaline electrolysers
Project start date: [2011-11-01]
 24. [ADEL](#)

Title: Advanced Electrolyser for *Hydrogen* Production with Renewable *Energy* Sources
Research area: SP1-JTI-FCH.2009.2.3 New generation of high temperature electrolyser
Project start date: [2011-01-01]
 25. [SHEL](#)

Title: Sustainable *Hydrogen* Evaluation in Logistics
Research area: SP1-JTI-FCH.2009.4.1 Demonstration of fuel cell-powered materials handling vehicles and infrastructure
Project start date: [2011-01-01]
 26. [HYFACTS](#)

Title: Identification, Preparation and Dissemination of *Hydrogen* Safety Facts to Regulators and Public Safety Officials
Research area: SP1-JTI-FCH.2009.5.2 Training initiatives for regulators
Project start date: [2011-02-01]
 27. [NANOWGS](#)

Title: Water-gas shift reaction on metal-oxide nanocatalysts for *hydrogen* production
Research area: FP7-PEOPLE-2011-CIG Marie-Curie Action: "Career Integration Grants"
Project start date: [2012-03-01]
 28. [ACRES](#)

Title: Advanced control of renewable *energy* generation systems based on fuel cells\wind power
Research area: FP7-PEOPLE-2011-IIF Marie Curie Action: "International Incoming Fellowships"
Project start date: [2012-05-07]

29. [VALUEFROMURINE](#)
Title: Bio-electrochemically-assisted recovery of valuable resources from urine
Research area: ENV.2012.6.3-1 Innovative resource efficient technologies, processes and services
Project start date: [2012-09-01]
30. [RESTRUCTURE](#)
Title: Redox Materials-based Structured Reactors/Heat Exchangers for Thermo-Chemical Heat Storage Systems in Concentrated Solar Power Plants
Research area: *ENERGY*.2011.2.5-1 Thermal *energy* storage for CSP plants
Project start date: [2011-11-01]
31. [ARTIST](#)
Title: Alternative routes towards information storage and transport at the atomic and molecular scale
Research area: ICT-2007.8.0 FET Open
Project start date: [2010-02-01]
32. [NEMESIS](#)
Title: Novel *Energy* Materials: Engineering Science and Integrated Systems (NEMESIS)
Research area: ERC-AG-PE8 ERC Advanced Grant - Products and process engineering
Project start date: [2013-02-01]
33. [QUANTUMCRASS](#)
Title: Towards a fully quantum ab initio treatment of chemical reactions at solid surfaces
Research area: ERC-SG-PE4 ERC Starting Grant - Physical and Analytical Chemical sciences
Project start date: [2008-08-01]
34. [NOVEL ANAEROBES](#)
Title: Novel anaerobes for a biobased economy
Research area: ERC-AG-LS9 Applied life sciences and biotechnology: agricultural, animal, fishery, forestry and food sciences; biotechnology, chemical biology, genetic engineering, synthetic biology, industrial biosciences.
Project start date: [2013-04-01]
35. [HYTRANSIT](#)
Title: European *Hydrogen* Transit Buses in Scotland
Research area: SP1-JTI-FCH.2011.1.1 Large-scale demonstration of road vehicles and refuelling infrastructure IV
Project start date: [2013-01-01]
36. [HYLIFT-EUROPE](#)
Title: HyLIFT-EUROPE - Large scale demonstration of fuel cell powered material handling vehicles
Research area: SP1-JTI-FCH.2011.4.1 Demonstration of fuel cell-powered Material Handling vehicles including infrastructure
Project start date: [2013-01-01]
37. [REMANENCE](#)
Title: Rare Earth Magnet Recovery for Environmental and Resource Protection
Research area: NMP.2012.4.1-2 Innovative recycling technologies of key metals in high-tech applications
Project start date: [2013-01-01]
38. [SUSFUELCAT](#)
Title: Sustainable fuel production by aqueous phase reforming understanding catalysis and hydrothermal stability of carbon supported noble metals
Research area: NMP.2012.1.1-1 Rational design of nano-catalysts for sustainable *energy* production based on fundamental understanding
Project start date: [2013-01-01]

39. [DECNAHED](#)
Title: Development of composite nanomaterials for *hydrogen energy* devices
Research area: PEOPLE-2007-4-3.IRG Marie Curie Action: "International Reintegration Grants"
Project start date: [2008-10-01]
40. [SOLAR BIO-HYDROGEN](#)
Title: Design of Hybrid Nanostructured Bio-photocatalyst for Their Application in Bio-photoelectrochemical *Hydrogen* Production
Research area: FP7-PEOPLE-2009-IIF Marie Curie Action: "International Incoming Fellowships"
Project start date: [2010-09-01]
41. [NANO-MAT](#)
Title: Self-assembled nanostructures for organic-inorganic hybrid nanomaterials
Research area: PEOPLE-2007-4-3.IRG Marie Curie Action: "International Reintegration Grants"
Project start date: [2009-02-01]
42. [WATIO](#)
Title: Water on TiO₂
Research area: FP7-PEOPLE-2012-CIG Marie-Curie Action: "Career Integration Grants"
Project start date: [2013-04-01]
43. [SPRITES-H2](#)
Title: SPRITES Optimisation of Bio-inspired Gel Scaffolds for *Hydrogen* Production
Research area: ERC-OA-2012-PoC European Research Council ERC Proof of Concept
Project start date: [2013-05-01]
44. [LILO](#)
Title: Light-In, Light-Out: Chemistry for sustainable *energy* technologies
Research area: ERC-AG-PE5 ERC Advanced Grant - Materials and Synthesis,ERC
ERC
Project start date: [2011-01-01]
45. [POMHYDCAT](#)
Title: Coupled Polyoxometalate Hydrogenase Catalysts for Photocatalytic Water Splitting
Research area: FP7-PEOPLE-2009-IOF Marie Curie International Outgoing Fellowships for Career Development
Project start date: [2010-09-15]
46. [CCBICHER](#)
Title: Coherent control of binary chemical reactions
Research area: FP7-PEOPLE-2012-IEF Marie-Curie Action: "Intra-European fellowships for career development"
47. [HP-ACS](#)
Title: Metal Hydride Heat Pump for Waste Heat Recovery in Vans Refrigeration Systems
Research area: SME-2012-1 Research for SMEs
Project start date: [2013-04-01]
48. [NO-WASTE](#)
Title: Utilization of Industrial By-products and Waste in Environmental Protection
Research area: FP7-PEOPLE-2012-IRSES Marie Curie Action "International Research Staff Exchange Scheme"
Project start date: [2013-04-01]
49. [SOLARH2](#)

- Title:** European solar-fuel initiative - renewable *hydrogen* from sun and water; science linking molecular biomimetics and genetics
Research area: *ENERGY*-2007-3.5-01 Fuel production using solar radiation
Project start date: [2008-02-01]
50. [INGRID](#)
Title: High-capacity *hydrogen*-based green-*energy* storage solutions for grid balancing
Research area: *ENERGY*.2011.7.3-2 Storage and balancing variable electricity supply and demand
Project start date: [2012-07-01]
51. [BEC-ME](#)
Title: Microbial Electrochemical Cells with modified electrode based on
Research area: FP7-PEOPLE-2010-IEF Marie-Curie Action: "Intra-European fellowships for career development"
Project start date: [2011-11-01]
52. [MICVIRECOLHOTSPPRINGS](#)
Title: Microbial and viral ecology of hot spring environments with emphasis on 454 pyrosequencing and microbial and viral interactions
Research area: FP7-PEOPLE-2009-IOF Marie Curie International Outgoing Fellowships for Career Development
Project start date: [2010-08-15]
53. [ULTRADYNE](#)
Title: Ultrafast dynamics of *hydrogen* bonded structures in condensed matter
Research area: ERC-AG-ID1 ERC Advanced Grant Interdisciplinary Panel
Project start date: [2010-03-01]
54. [PROBIO-HYSENS](#)
Title: Process gas analysis for bio and *hydrogen* gas mixtures using new high pressure in Situ sensors
Research area: SME-1 Research for SMEs
Project start date: [2008-10-01]
55. [ELECTROHYPEM](#)
Title: Enhanced performance and cost-effective materials for long-term operation of PEM water electrolyzers coupled to renewable power sources
Research area: SP1-JTI-FCH.2011.2.7 Innovative Materials and Components for PEM electrolyzers
Project start date: [2012-07-01]
56. [COTTONBLEACH](#)
Title: Improved Novel Eco-Friendly Bleaching System for Cotton Using Enzyme and Ultrasound Processes
Research area: SME-2 Research for SME associations
Project start date: [2010-01-01]
57. [FEMTOSCOPY](#)
Title: Femtosecond Raman Spectroscopy: ultrafast transformations in physics, chemistry and biology
Research area: ERC-SG-PE3 ERC Starting Grant - Condensed matter physics
Project start date: [2008-09-01]
58. [TRAMLANES](#)
Title: Transition-metal / lanthanide dyads for two-photon cellular imaging
Research area: FP7-PEOPLE-2012-IIF Marie Curie Action: "International Incoming Fellowships"
59. [RPSII](#)
Title: Re-wiring of photosystem II enzymes to metal-oxide electrodes in artificial photosynthetic devices for enhanced photocatalytic water splitting performance

- Research area:** FP7-PEOPLE-2012-IIF Marie Curie Action: "International Incoming Fellowships"
60. [COMETHY](#)
Title: Compact Multifuel-*Energy* To *Hydrogen* converter
Research area: SP1-JTI-FCH.2010.2.2 Development of fuel processing catalyst, modules and systems, SP1-JTI-FCH.2010.2.3 Development of gas purification technologies
Project start date: [2011-12-01]
61. [CONFIES](#)
Title: New concepts in ceramic conducting oxides for improved *energy* storage devices
Research area: FP7-PEOPLE-2012-IEF Marie-Curie Action: "Intra-European fellowships for career development"
Project start date: [2013-03-01]
62. [SOLAROGENIX](#)
Title: Visible-Light Active Metal Oxide Nano-catalysts for Sustainable Solar *Hydrogen* Production
Research area: NMP.2012.1.1-1 Rational design of nano-catalysts for sustainable *energy* production based on fundamental understanding
Project start date: [2013-01-01]
63. [SAPIENS](#)
Title: SOFC Auxiliary Power In Emissions/Noise Solutions
Research area: SP1-JTI-FCH.2011.4.4 Research, development and demonstration of new portable Fuel Cell systems
Project start date: [2012-11-01]
64. [H2OCEAN](#)
Title: Development of a wind-wave power open-sea platform equipped for *hydrogen* generation with support for multiple users of *energy*
Research area: OCEAN.2011-1 Multi-use offshore platforms
Project start date: [2012-01-01]
Project web site: <http://www.h2ocean-project.eu/>
65. [PREPAR-H2](#)
Title: Preparing socio and economic evaluations of future H2 lighthouse projects
Research area: SP1-JTI-FCH-1.2 Preparation for large-scale vehicle demonstrations in Europe, SP1-JTI-FCH-5.1 Regulations, Codes and Standards strategy
Project start date: [2010-01-01]
66. [SWARM](#)
Title: Demonstration of Small 4-Wheel fuel cell passenger vehicle Applications in Regional and Municipal transport
Research area: SP1-JTI-FCH.2011.1.1 Large-scale demonstration of road vehicles and refuelling infrastructure IV
Project start date: [2012-10-01]
67. [IRAFC](#)
Title: Development of an Internal Reforming Alcohol High Temperature PEM Fuel Cell Stack
Research area: SP1-JTI-FCH-4.2 Fuel supply technology for portable and micro FC
Project start date: [2010-01-01]
68. [ISH2SUP](#)
Title: In situ H2 supply technology for micro fuel cells powering mobile electronics appliances
Research area: SP1-JTI-FCH-4.2 Fuel supply technology for portable and micro FC
Project start date: [2010-01-01]
69. [NGDL](#)

- Title:** Novel gas diffusion layer for PEM fuel cells
Research area: FP7-PEOPLE-2011-IIF Marie Curie Action: "International Incoming Fellowships"
70. [ALGAENET](#)
Title: Renewable *energy* production through microalgae cultivation: Closing material cycles
Research area: FP7-PEOPLE-2011-IRSES Marie Curie Action "International Research Staff Exchange Scheme"
Project start date: [2012-02-01]
71. [NEXTHYLIGHTS](#)
Title: Supporting action to prepare large-scale *hydrogen* vehicle demonstration in Europe
Research area: SP1-JTI-FCH-1.2 Preparation for large-scale vehicle demonstrations in Europe
Project start date: [2010-01-01]
72. [NANOPEC](#)
Title: Nanostructured photoelectrodes for *energy* conversion
Research area: *ENERGY*.2008.10.1.2 Novel materials for *energy* applications (Joint Call NMP)
Project start date: [2009-01-01]
73. [DEMOYS](#)
Title: Dense membranes for efficient oxygen and *hydrogen* separation
Research area: *ENERGY*.2009.5.1.1 Innovative capture techniques
Project start date: [2010-05-01]
74. [HYGENMEMS](#)
Title: Chip integrated *hydrogen* generation-storage-power micro system
Research area: FP7-PEOPLE-IEF-2008 Marie Curie Action: "Intra-European Fellowships for Career Development"
Project start date: [2009-12-17]
75. [EFFIPRO](#)
Title: Efficient and robust fuel cell with novel ceramic proton conducting electrolyte
Research area: *ENERGY*.2008.10.1.2 Novel materials for *energy* applications (Joint Call NMP)
Project start date: [2009-05-01]
76. [CLEARGEN DEMO](#)
Title: The Integration and demonstration of Large Stationary Fuel Cell Systems for Distributed Generation
Research area: SP1-JTI-FCH.2011.3.6 Field demonstration of large stationary fuel cell systems for distributed generation and other relevant commercial or industrial applications
Project start date: [2012-05-01]
77. [CARINHYPH](#)
Title: Bottom-up fabrication of nano carbon-inorganic hybrid materials for photocatalytic *hydrogen* production
Research area: NMP.2012.1.4-2 Hierarchical assembly of nano-scale building blocks
Project start date: [2013-01-01]
78. [DON QUICHOTE](#)
Title: Demonstration Of New Qualitative Innovative Concept of *Hydrogen* Out of windTurbine Electricity
Research area: SP1-JTI-FCH.2011.2.1 Demonstration of MW capacity *hydrogen* production and storage for balancing the grid and supply to a *hydrogen* refuelling station
Project start date: [2012-10-01]

79. [ROBANODE](#)
Title: Understanding and minimizing anode degradation in *hydrogen* and natural gas fuelled SOFCs
Research area: SP1-JTI-FCH-3.3 Degradation and lifetime fundamentals
Project start date: [2010-01-01]
80. [NANOTUBEMEM](#)
Title: Carbon nanotube membranes by templated growth in oriented molecular sieve films
Research area: PEOPLE-2007-4-3.IRG Marie Curie Action: "International Reintegration Grants"
Project start date: [2008-11-01]
81. [PHOCSCLEEN](#)
Title: PHOtoCathalytic Systems for CLean *Energy* and Environment Applications
Research area: FP7-PEOPLE-2012-IRSES Marie Curie Action "International Research Staff Exchange Scheme"
Project start date: [2012-11-01]
82. [TYGRE](#)
Title: High added value materials from waste tyre gasification residues
Research area: ENV.2008.3.1.3.2. Technologies for high added value production from waste
Project start date: [2009-09-01]
83. [CROP](#)
Title: Cycloidal Rotor Optimized for Propulsion
Research area: AAT.2012.6.3-1. Breakthrough and emerging technologies,AAT.2012.6.3-2. Radical new concepts for air transport
Project start date: [2013-01-01]
84. [PHOCS](#)
Title: Photogenerated *Hydrogen* by Organic Catalytic Systems
Research area: *ENERGY*.2012.10.2.1 Future Emerging Technologies
Project start date: [2012-12-01]
85. [DELIVERHY](#)
Title: Optimisation of Transport Solutions for Compressed *Hydrogen*
Research area: SP1-JTI-FCH.2010.2.6 Feasibility of 400b+ CGH2 distribution
Project start date: [2012-01-01]
86. [SOFCOM](#)
Title: SOFC CCHP WITH POLY-FUEL: OPERATION AND MAINTENANCE
Research area: SP1-JTI-FCH.2010.3.4 Proof-of-concept and validation of integrated fuel cell systems
Project start date: [2011-11-01]
87. [SOLHYDROMICS](#)
Title: Nanodesigned electrochemical converter of solar *energy* into *hydrogen* hosting natural enzymes or their mimics
Research area: *ENERGY*.2008.10.1.1 Future Emerging Technologies (FET)
Project start date: [2009-01-01]
88. [REACCESS](#)
Title: Risk of *energy* availability: common corridors for europe supply security
Research area: *ENERGY*-2007-9.1-01 *Energy* security of supply
Project start date: [2008-01-01]
89. [HYCOMP](#)
Title: Enhanced Design Requirements and Testing Procedures for Composite Cylinders intended for the Safe Storage of *Hydrogen*

- Research area:** SP1-JTI-FCH.2009.1.5 Pre-normative Research (PNR) on composite storage
Project start date: [2011-01-01]
90. [MOBYPOST](#)
Title: Mobility with *Hydrogen* for Postal Delivery
Research area: SP1-JTI-FCH.2009.4.1 Demonstration of fuel cell-powered materials handling vehicles and infrastructure
Project start date: [2011-02-01]
91. [FC-EUROGRID](#)
Title: Evaluating the Performance of Fuel Cells in European *Energy* Supply Grids
Research area: SP1-JTI-FCH.2009.3.8 Application specific targets for stationary power generation and related technology benchmark
Project start date: [2010-10-01]
92. [FLYHY](#)
Title: Fluorine substituted high capacity hydrides for *hydrogen* storage at low working temperatures
Research area: NMP-2008-2.6-1 Novel materials for *energy* applications (Joint call with *Energy*)
Project start date: [2009-01-01]
93. [SHEL](#)
Title: Silicon sUBstrates from an inteGrated Automated pRocess
Research area: *ENERGY*.2010.2.1-1 Further development of very thin wafer based c-Si photovoltaics, SP1-JTI-FCH.2009.4.1 Demonstration of fuel cell-powered materials handling vehicles and infrastructure
Project start date: [2011-01-01]
94. [SMALLINONE](#)
Title: Smart membrane for *hydrogen energy* conversion: All fuel cell functionalities in one material
Research area: *ENERGY*.2008.10.1.2 Novel materials for *energy* applications (Joint Call NMP)
Project start date: [2009-04-01]
Project web site: <http://www.smallinone.eu>
95. [COMETNANO](#)
Title: Technologies for synthesis, recycling and combustion of metallic nanoclusters as future transportation fuels
Research area: NMP-2008-1.2-3 Development of technologies for the controlled combustion of nano-particles
Project start date: [2009-05-01]
Project web site: <http://www.cometnano.org>
96. [HYPOMAP](#)
Title: New materials for *hydrogen* powered mobile applications
Research area: NMP-2008-2.6-2 Computational Material Science - Coordinated Call with India
Project start date: [2009-06-01]
Project web site: <http://www.jacobs-university.de/ses/theine/projects/HYPOMAP>
97. [H2SUSBUILD](#)
Title: Development of a clean and *energy* self-sustained building in the vision of integrating H2 economy with renewable *energy* sources
Research area: NMP-2007-4.0-5 Resource Efficient and Clean Buildings
Project start date: [2008-10-01]
Project web site: <http://www.h2susbuild.ntua.gr/>
98. [SICCATALYSIS](#)

- Title:** Porous Silicon Carbide as a support for Co metal nanoparticles in Fischer Tropsch synthesis
Research area: FP7-PEOPLE-2012-IRSES Marie Curie Action "International Research Staff Exchange Scheme"
Project start date: [2012-07-01]
99. [ECOWAMA](#)
Title: ECO-efficient management of Water in the MANufacturing industry
Research area: ENV.2012.6.3-1 Innovative resource efficient technologies, processes and services
Project start date: [2012-10-01]
100. [NANOWGS](#)
Title: Optimization of water-gas-shift catalysts: a fundamental and mechanistic approach
Research area: PEOPLE-2007-4-1.IOF Marie Curie Action: "International Outgoing Fellowships for Career Development"
Project start date: [2008-11-01]
101. [RADIOFOREGROUNDS](#)
Title: Enabling cosmology with radio astronomy surveys: dealing with foreground contamination
Research area: ERC-SG-PE9 ERC Starting Grant - Universe sciences
Project start date: [2013-01-01]
102. [CARBENERGY](#)
Title: Mesoionic carbene complexes for water splitting: Harnessing renewable *energy* sources
Research area: ERC-OA-2012-PoC European Research Council ERC Proof of Concept
Project start date: [2012-10-01]
103. [EDEN](#)
Title: High *energy* density Mg-Based metal hydrides storage system
Research area: SP1-JTI-FCH.2011.2.4 Novel H₂ storage materials for stationary and portable applications
Project start date: [2012-10-01]
104. [PROFESSOR](#)
Title: The sources of reionization
Research area: FP7-PEOPLE-2011-IIF Marie Curie Action: "International Incoming Fellowships"
Project start date: [2012-09-01]
105. [SUSHGEN](#)
Title: Sustainable *hydrogen* generation
Research area: FP7-PEOPLE-ITN-2008 Marie Curie Action: "Networks for Initial Training"
Project start date: [2009-12-01]
106. [APT-STEP](#)
Title: Unlocking APTLs Scientific and Technological Research Potential in Green Mobility
Research area: REGPOT-2012-2013-1 Any research topic covered by the EU FP7
Project start date: [2012-10-01]
107. [HYPER](#)
Title: Integrated *hydrogen* power packs for portable and other autonomous applications
Research area: SP1-JTI-FCH.2011.4.4 Research, development and demonstration of new portable Fuel Cell systems
Project start date: [2012-09-03]
108. [GREENEST](#)

- Title:** Gas turbine combustion with Reduced EmissionNs Employing extreme STeam injection
Research area: ERC-AG-PE8 ERC Advanced Grant - Products and process engineering
Project start date: [2010-07-01]
109. [ICAP](#)
Title: Innovative CO2 capture
Research area: *ENERGY*.2009.5.1.1 Innovative capture techniques
Project start date: [2010-01-01]
110. [REWAGEN](#)
Title: Electrochemical WAtEr treatment system in the dairy industry with *hydroGEN*
REcovery and electricity production
Research area: ENV.2011.3.1.9-1 Eco-innovation!
Project start date: [2012-06-01]
111. [ENE.FIELD](#)
Title: European-wide field trials for residential fuel cell micro-CHP
Research area: SP1-JTI-FCH.2011.3.7 Field demonstration of small stationary fuel cell systems for residential and commercial applications
Project start date: [2012-09-01]
112. [HYUNDER](#)
Title: Assessment of the potential, the actors and relevant business cases for large scale and seasonal storage of renewable electricity by *hydrogen* underground storage in Europe
Research area: SP1-JTI-FCH.2011.5.1 Assessment of benefits of H2 for *energy* storage and integration in *energy* markets
Project start date: [2012-06-18]
113. [TOHPN](#)
Title: Towards the optimization of *hydrogen* production by nitrogenase
Research area: ERC-SG-LS7 Applied life sciences, biotechnology and bioengineering: agricultural, animal, fishery, forestry/food sciences; biotechnology, chemical biology, genetic engineering, synthetic biology, industrial biosciences; environmental biotechnology.
Project start date: [2008-10-01]
114. [BEINGENERGY](#)
Title: Integrated low temperature methanol steam reforming and high temperature polymer electrolyte membrane fuel cell
Research area: SP1-JTI-FCH.2011.4.4 Research, development and demonstration of new portable Fuel Cell systems
Project start date: [2012-09-01]
115. [PHOTOCATH2ODE](#)
Title: Gathering organic and hybrid photovoltaics with artificial photosynthesis for Photo-Electro-Chemical production of *hydrogen*
Research area: ERC-SG-PE5 ERC Starting Grant - Materials and Synthesis
Project start date: [2012-12-01]
116. [DECODE](#)
Title: Understanding of degradation mechanisms to improve components and design of PEFC
Research area: *ENERGY*-2007-1.1-01 Basic research for materials and processes for Polymer Electrolyte Membrane Fuel Cells (PEMFC)
Project start date: [2008-01-01]
117. [PHOTOCATMOF](#)
Title: Dye-Sensitized Metal-Organic Frameworks for Photocatalytic Water Splitting
Research area: FP7-PEOPLE-2011-IEF Marie-Curie Action: "Intra-European fellowships for career development"

- Project start date:** [2012-04-01]
118. [ARTIPHYCTION](#)
Title: Fully artificial photo-electrochemical device for low temperature *hydrogen* production
Research area: SP1-JTI-FCH.2011.2.6 Low-temperature H₂ production processes
Project start date: [2012-05-01]
119. [BIOWET](#)
Title: Advanced Biological Waste-to-*Energy* Technologies
Research area: FP7-PEOPLE-2010-IRSES Marie Curie Action "International Research Staff Exchange Scheme"
Project start date: [2012-01-01]
120. [SOLAR FUEL BY III-VS](#)
Title: Direct photoelectrochemical generation of solar fuels using dilute nitride III-V compound semiconductor heterostructures on silicon: epitaxy, electrochemistry, and interface characterization
Research area: FP7-PEOPLE-2011-IOF Marie Curie Action: "International Outgoing Fellowships for Career Development"
Project start date: [2012-08-01]
121. [HOPSEP](#)
Title: Harnessing Oxygenic Photosynthesis for Sustainable *Energy* Production
Research area: ERC-AG-LS9 Applied life sciences and biotechnology: agricultural, animal, fishery, forestry and food sciences; biotechnology, chemical biology, genetic engineering, synthetic biology, industrial biosciences.
Project start date: [2012-01-01]
122. [MATCON](#)
Title: Materials and interfaces for *energy* conversion and storages
Research area: FP7-PEOPLE-ITN-2008 Marie Curie Action: "Networks for Initial Training"
Project start date: [2009-12-15]
123. [IDEAL-CELL](#)
Title: Innovative dual membrane fuel cell
Research area: *ENERGY*-2007-1.1-03 Innovative concepts for fuel cells
Project start date: [2008-01-01]
124. [SANDPAPER](#)
Title: Synthesis and Assembly of Nanostructured Devices for Photovoltaic And Photocatalytic *Energy* Reservoirs
Research area: FP7-PEOPLE-2010-IOF Marie Curie Action: "International Outgoing Fellowships for Career Development"
Project start date: [2012-09-26]
125. [CACHET II](#)
Title: Carbon dioxide capture and *hydrogen* production with membranes
Research area: *ENERGY*.2009.5.1.1 Innovative capture techniques
Project start date: [2010-01-01]
126. [NH34PWR](#)
Title: Ammonia based, fuel cell power for off-grid cell phone towers
Research area: SP1-JTI-FCH.2009.3.6 Validation of integrated fuel cell systems readiness
Project start date: [2010-09-01]
127. [RELHY](#)
Title: Innovative solid oxide electrolyser stacks for efficient and reliable *hydrogen* production

- Research area:** *ENERGY*-2007-1.2-01 New materials and processes for advanced electrolyzers
Project start date: [2008-01-01]
128. [ELECTROCHEM](#)
Title: Fuel cell stack assembly and diagnostics
Research area: PEOPLE-2007-4-3.IRG Marie Curie Action: "International Reintegration Grants"
Project start date: [2008-12-01]
129. [WELTEMP](#)
Title: Water electrolysis at elevated temperatures
Research area: *ENERGY*-2007-1.2-01 New materials and processes for advanced electrolyzers
Project start date: [2008-01-01]
130. [LLAVES](#)
Title: Computational Design for Lightweight Ca-Mg-based Laves Phases for *Hydrogen* Storage
Research area: FP7-PEOPLE-2011-IEF Marie-Curie Action: "Intra-European fellowships for career development"
131. [NEXPEL](#)
Title: Next-Generation PEM Electrolyser for Sustainable *Hydrogen* Production
Research area: SP1-JTI-FCH-1.1 Demonstration of *hydrogen* fuelled road vehicles and refuelling infrastructure,SP1-JTI-FCH-2.1 Efficient PEM electrolyzers
Project start date: [2010-01-01]
132. [RESOLIVE](#)
Title: Adaptation of renewable energies technologies for the olive oil industry
Research area: SME-2 Research for SME associations
Project start date: [2009-01-01]
133. [NANOHY](#)
Title: Novel nanocomposites for *hydrogen* storage applications
Research area: *ENERGY*-2007-1.2-04 Novel nanostructured materials for *hydrogen* storage
Project start date: [2008-01-01]
134. [HYCYCLES](#)
Title: Materials and components for *Hydrogen* production by sulphur based thermochemical cycles
Research area: *ENERGY*-2007-1.2-03 Advanced Materials for High Temperature thermo-chemical processes
Project start date: [2008-01-01]
135. [CO OXIDATION](#)
Title: A multi-scale theoretical investigation of carbon monoxide oxidation on gold nanomaterials for *energy* and environmental applications
Research area: PEOPLE-2007-4-1.IOF Marie Curie Action: "International Outgoing Fellowships for Career Development"
Project start date: [2008-04-01]
136. [CREMA](#)
Title: Charge radius experiment with muonic atoms
Research area: ERC-SG-PE2 ERC Starting Grant - Fundamental constituents of matter
Project start date: [2011-11-01]
137. [NANOTUNE](#)
Title: Sustainable routes to shaped nanoparticles for selective catalysis
Research area: FP7-PEOPLE-2009-IIF Marie Curie Action: "International Incoming Fellowships"

- Project start date:** [2010-05-17]
138. [HYQ](#)
Title: *Hydrogen* fuel Quality requirements for transportation and other *energy* applications
Research area: SP1-JTI-FCH.2009.1.6 Pre-normative Research (PNR) on fuel quality
Project start date: [2011-03-01]
139. [METHANGOLD](#)
Title: Activation of Methane and Other Alkanes with Electrophilic Gold complexes
Research area: FP7-PEOPLE-2010-IEF Marie-Curie Action: "Intra-European fellowships for career development"
Project start date: [2011-03-01]
140. [HYTIME](#)
Title: Low temperature *hydrogen* production from second generation biomass
Research area: SP1-JTI-FCH.2010.2.4 Low temperature H₂ production processes
Project start date: [2012-01-01]
141. [TOWERPOWER](#)
Title: Demonstration of FC-Based integrated generator systems to power off-grid cell phone towers, using ammonia fuel
Research area: SP1-JTI-FCH.2010.4.2 Demonstration of industrial application readiness of fuel cell generators for power supply to off-grid stations, including the *hydrogen* supply solution, SP1-JTI-FCH.2010.3.5 Field demonstration of stationary fuel cell systems
Project start date: [2011-11-01]
142. [ENANAMMIC-BIOF](#)
Title: Engineering anaerobic mixed microbial communities for biofuels production
Research area: PEOPLE-2007-2-2.ERG Marie Curie Action: "European Reintegration Grants"
Project start date: [2010-01-05]
143. [FCPOWEREDRBS](#)
Title: Demonstration Project for Power Supply to Telecom Stations through FC technology
Research area: SP1-JTI-FCH.2010.4.2 Demonstration of industrial application readiness of fuel cell generators for power supply to off-grid stations, including the *hydrogen* supply solution
Project start date: [2012-01-01]
144. [EAP-FLAME](#)
Title: The Effect of Adding H₂, CO, CO₂ and H₂O to Premixed Hydrocarbon Flames - Numerical Characterization and Modelling
Research area: FP7-PEOPLE-2009-IEF Marie Curie: "Promoting science"
Project start date: [2011-08-24]
145. [IDEALHY](#)
Title: Integrated Design for Efficient Advanced Liquefaction of *Hydrogen*
Research area: SP1-JTI-FCH.2010.2.5 Preparation of demonstration of efficient large-scale *hydrogen* liquefaction
Project start date: [2011-11-01]
146. [LASER-CELL](#)
Title: INNOVATIVE CELL AND STACK DESIGN FOR STATIONARY INDUSTRIAL APPLICATIONS USING NOVEL LASER PROCESSING TECHNIQUES
Research area: SP1-JTI-FCH.2010.3.2 Next generation cell and stack designs
Project start date: [2011-12-01]
147. [NANO@ENERGY](#)

- Title:** Novel Design of Nanostructures for Renewable *Energy*: Fundamental Questions and Advanced Applications
Research area: ERC-SG-PE5 ERC Starting Grant - Materials and Synthesis
Project start date: [2011-10-01]
148. [METSOFC](#)
Title: Development of next generation metal based SOFC stack technology
Research area: *ENERGY*-2007-1.1-02 Basic research on materials and processes for High Temperature Fuel Cells (SOFC & MCFC)
Project start date: [2008-04-01]
149. [NAGOYA2BCN](#)
Title: Characterization of membrane protein dynamics by *hydrogen*/deuterium exchange and time-resolved infrared spectroscopy, assisted by maximum entropy and Bayesian methods of analysis
Research area: PEOPLE-2007-4-3.IRG Marie Curie Action: "International Reintegration Grants"
Project start date: [2008-09-01]
150. [IRONGEOBIOVENT](#)
Title: Iron geobiology at deep-ocean hydrothermal vents
Research area: PEOPLE-2007-2-1.IEF Marie Curie Action: "Intra-European Fellowships for Career Development"
Project start date: [2009-09-01]
151. [H2OME](#)
Title: Development of a novel compact multi fuel steam reforming device integrated into a cost effective fuel cell micro combined heat and power generation system for residential building application
Research area: SME-1 Research for SMEs
Project start date: [2008-10-01]
152. [ICPE-HYFC](#)
Title: Developing RTD potential of INCDIE ICPE-CA in the field of *hydrogen* and fuel cell technologies
Research area: REGPOT-2008-1-01 Any research topic covered by the EC FP7 (EC/EP Decision No 1982/2006/EC of 18 December 2006, published in the Official Journal 30.12.2006 L 412)
Project start date: [2009-04-01]
153. [PERL](#)
Title: Enhancing the research potential of the NCSR Demokritos environmental research laboratory in the European, national and regional research areas
Research area: REGPOT-2008-1-01 Any research topic covered by the EC FP7 (EC/EP Decision No 1982/2006/EC of 18 December 2006, published in the Official Journal 30.12.2006 L 412)
Project start date: [2009-01-01]
154. [OXLEET](#)
Title: Oxidation via low-*energy* electron transfer. Development of green oxidation methodology via a biomimetic approach
Research area: ERC-AG-PE5 ERC Advanced Grant - Materials and Synthesis
Project start date: [2010-01-01]
155. [QUASIDRY](#)
Title: Quasi-anhydrous and dry membranes for next generation fuel cells
Research area: *ENERGY*.2010.10.2-1 Future Emerging Technologies for *Energy* Applications (FET)
Project start date: [2010-12-01]
156. [ESRCN](#)

- Title:** Effect of structure upon the reactivity of catalytic nanoparticles
Research area: PEOPLE-2007-2-1.IEF Marie Curie Action: "Intra-European Fellowships for Career Development"
Project start date: [2008-04-01]
157. [SOLAR-JET](#)
Title: Solar chemical reactor demonstration and Optimization for Long-term Availability of Renewable JET fuel
Research area: AAT.2011.6.3-4. New sources of aircraft main propulsive power
Project start date: [2011-06-01]
158. [3CBIOTECH](#)
Title: Cold Carbon Catabolism of Microbial Communities underpinning a Sustainable Bioenergy and Biorefinery Economy
Research area: ERC-SG-LS9 ERC Starting Grant - Applied life sciences and biotechnology
Project start date: [2011-05-01]
159. [DGV](#)
Title: Coordination-Activation Chemistry of Ammonia-Boranes at Multiple Metal-Metal Bonded Complexes
Research area: FP7-PEOPLE-2009-RG Marie Curie Action: "Reintegration Grants"
Project start date: [2011-04-01]
160. [H2-IGCC](#)
Title: Low Emission Gas Turbine Technology for *Hydrogen*-rich Syngas
Research area: *ENERGY*.2008.6.1.4 Advanced Gas Turbines for solid Fuel Gasification Processes
Project start date: [2009-11-01]
161. [HIPER](#)
Title: European high power laser *energy* research facility (preparatory phase study)
Research area: INFRA-2007-2.2-01 Preparatory phase for the projects in the 2006 ESFRI Roadmap
Project start date: [2008-04-28]
162. [ZEOCELL](#)
Title: NANOSTRUCTURED ELECTROLYTE MEMBRANES BASED ON POLYMER-IONIC LIQUIDS-ZEOLITE COMPOSITES FOR HIGH TEMPERATURE PEM FUEL CELL
Research area: *ENERGY*-2007-1.1-01 Basic research for materials and processes for Polymer Electrolyte Membrane Fuel Cells (PEMFC)
Project start date: [2008-01-01]
163. [ENERGYBIOCATALYSIS](#)
Title: Understanding and Exploiting Biological Catalysts for *Energy* Cycling: Development of Infrared Spectroelectrochemistry for Studying Intermediates in Metalloenzyme Catalysis
Research area: ERC-SG-PE4 ERC Starting Grant - Physical and Analytical Chemical sciences
Project start date: [2011-02-01]
164. [ARMOS](#)
Title: Advanced multifunctional Reactors for green Mobility and Solar fuels
Research area: ERC-AG-PE8 ERC Advanced Grant - Products and process engineering
Project start date: [2011-02-01]
165. [CAT4ENSUS](#)
Title: Molecular Catalysts Made of Earth-Abundant Elements for *Energy* and Sustainability
Research area: ERC-SG-PE5 ERC Starting Grant - Materials and Synthesis

- Project start date:** [2011-01-01]
166. [ORGELNANOCARBMATER](#)
Title: A Universal Supramolecular Approach toward Organic Electronic Materials and Nanostructured Carbonaceous Materials from Molecular Precursors
Research area: ERC-SG-PE5 ERC Starting Grant - Materials and Synthesis
Project start date: [2009-09-01]
167. [ANAMIX](#)
Title: A two year exchange programme on anaerobic mixed cultures to study and improve biological generation of chemicals and *energy* carriers from organic residues generated by agro-industrial activities
Research area: FP7-PEOPLE-IRSES-2008 Marie Curie Action "International Research Staff Exchange Scheme"
Project start date: [2009-01-01]
168. [COORDSPACE](#)
Title: Chemistry of coordination space: extraction, storage, activation and catalysis
Research area: ERC-AG-PE5 ERC Advanced Grant - Materials and Synthesis
Project start date: [2008-12-01]
169. [NOVCAT](#)
Title: Design of Novel Catalysis by Metal Complexes
Research area: ERC-AG-PE5 ERC Advanced Grant - Materials and Synthesis
Project start date: [2010-04-01]
170. [IGDL/GFC](#)
Title: Interaction between the gas diffusionlayer and the gas flow channel of polymer electrolyte fuel cell
Research area: FP7-PEOPLE-IEF-2008 Marie Curie Action: "Intra-European Fellowships for Career Development"
Project start date: [2009-09-07]
171. [EUROPE S METAGENOME](#)
Title: Probing Europe s Undiscovered Genome: A Metagenomics Approach to Find Unique Enzymes for the Biofuel and Bioprocessing Industries
Research area: FP7-PEOPLE-2009-RG Marie Curie Action: "Reintegration Grants"
Project start date: [2010-11-01]
172. [STRELA](#)
Title: Stretch effects on *hydrogen*/methane/air laminar flame propagation and extinction
Research area: PEOPLE-2007-4-2.IIF Marie Curie Action: "International Incoming Fellowships"
Project start date: [2008-08-01]
173. [ATLAS-H2](#)
Title: ADVANCED METAL HYDRIDE TANKS FOR INTEGRATED *HYDROGEN* APPLICATIONS
Research area: FP7-PEOPLE-2009-IAPP Marie Curie IAPP transfer of knowledge programme
Project start date: [2010-07-01]
174. [H2OSPLIT](#)
Title: Water splitting catalysts for artificial photosynthesis
Research area: PEOPLE-2007-4-3.IRG Marie Curie Action: "International Reintegration Grants"
Project start date: [2009-05-01]
175. [FCHINSTRUCT](#)
Title: Preparatory activities of the joint technology initiative for fuel cell and *hydrogen*
Research area: *ENERGY Energy*
Project start date: [2007-10-01]

