



Energy WP 2012: priorities and topics

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FP7 ENERGY RESEARCH

Solar Energy

[Photovoltaics](#)

[CSP](#)

Wind Energy

[Wind energy](#)

Bio Energy

[Bioenergy](#)

Other renewable energies

[Ocean](#)

[Hydro](#)

[Geothermal](#)

Fuel cells and hydrogen

[Fuel cells and hydrogen](#)

Energy networks

[Smart grid](#)

Clean coal/CCS

[Clean coal/CCS](#)

[Coal and steel \(RFCS\)](#)

Energy efficiency

[Efficiency and savings](#)

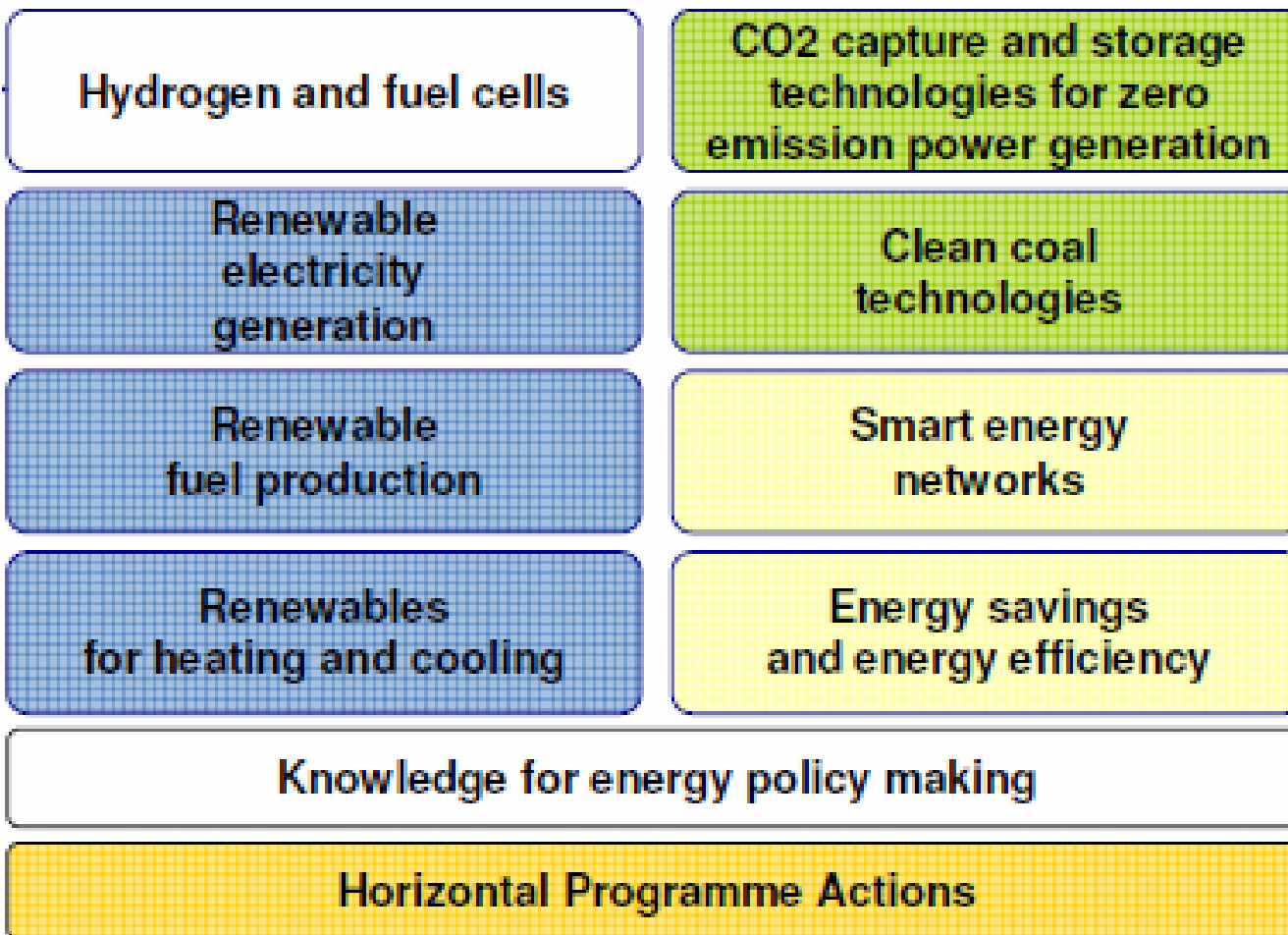
Horizontal aspects

[Socio-economic research](#)

[Future emerging technologies & materials](#)

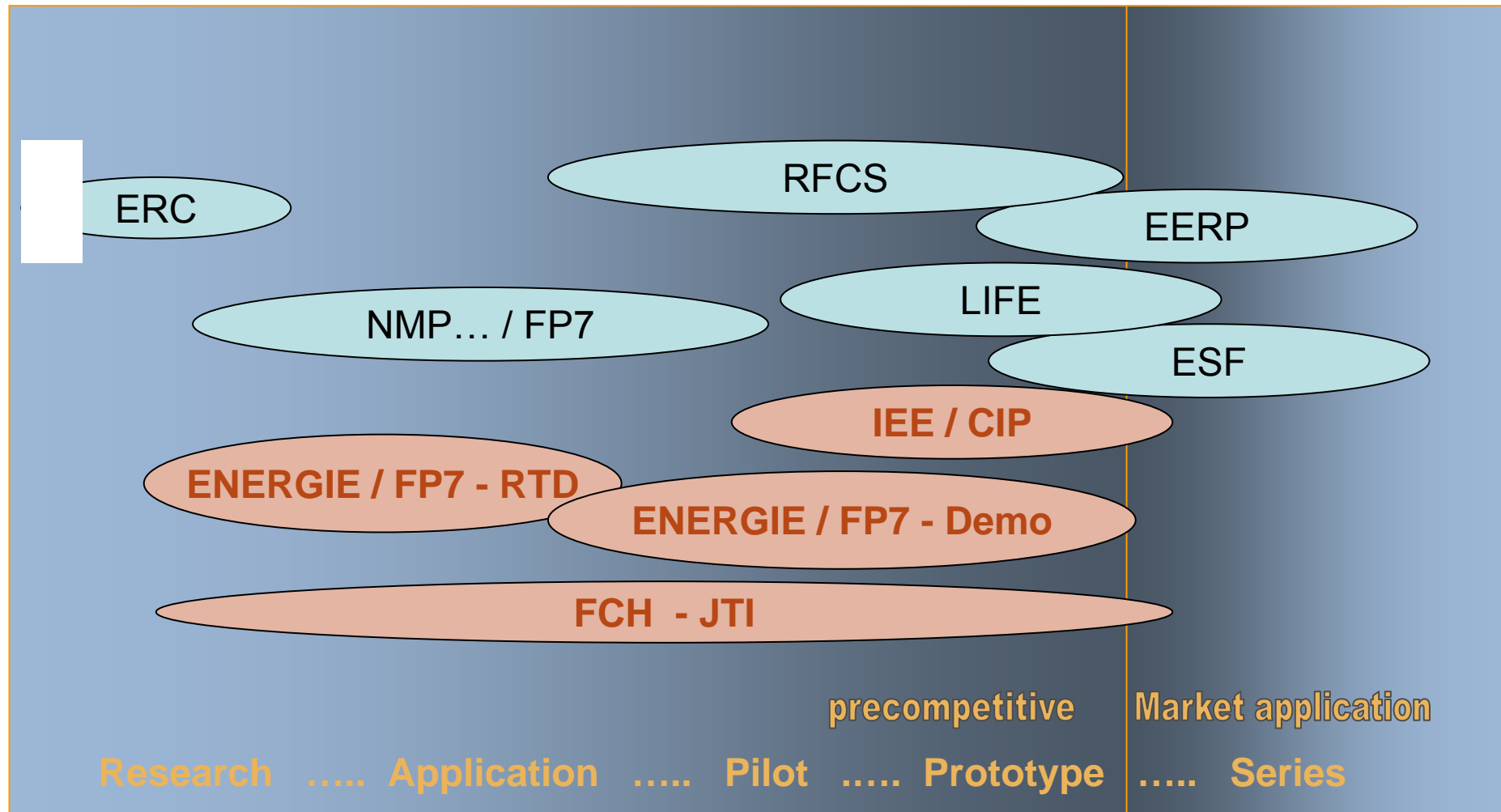
Energy Theme in FP7 – 2.3 B €

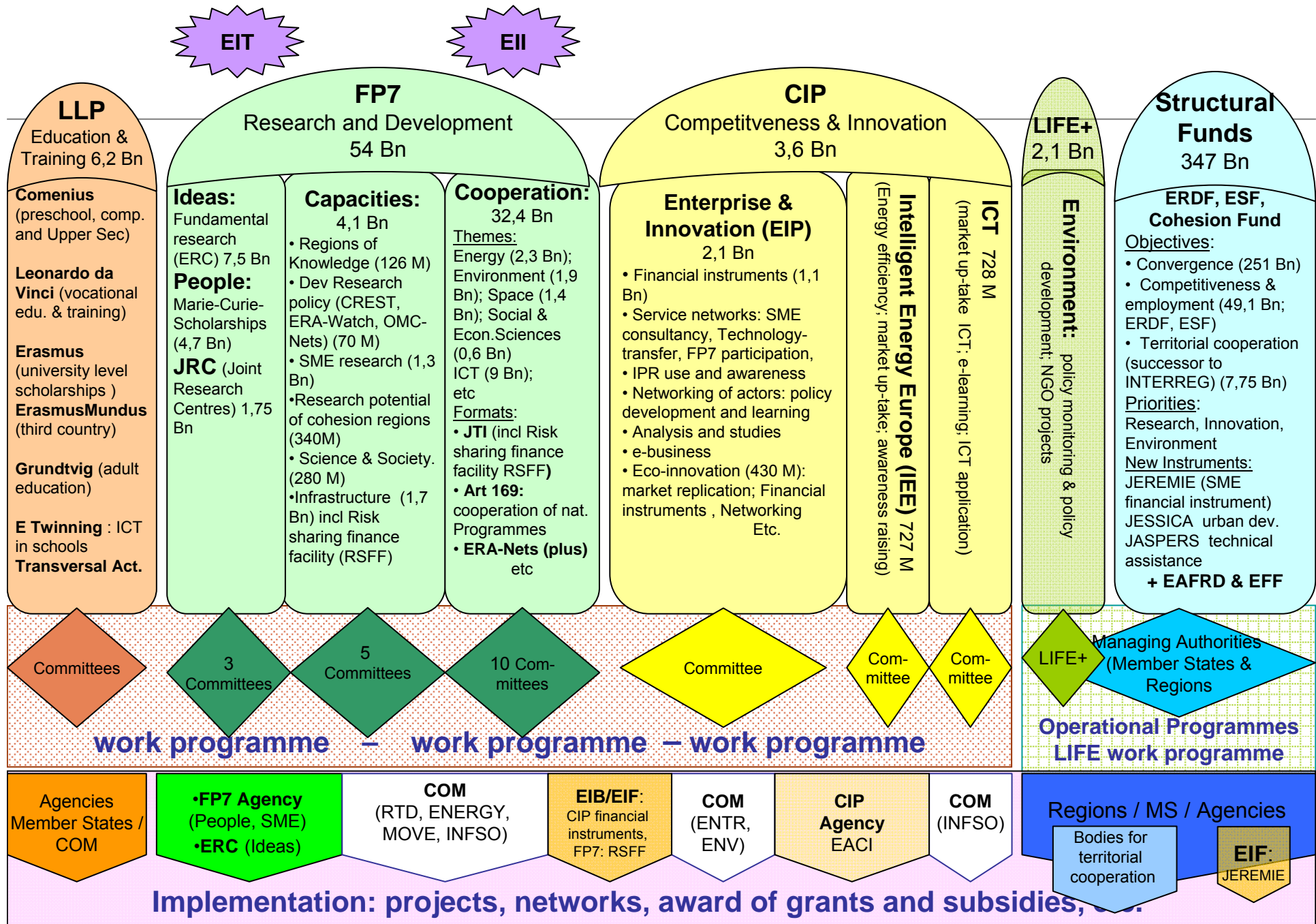
- implemented jointly by DG RTD and DG ENER



Examples of EU – Funding schemes

- Focus Energy





Area	FP7 Theme	Further info
Energy efficiency, biofuels, fuel cells	Transport	<ul style="list-style-type: none"> • http://cordis.europa.eu/fp7/cooperation/transport_en.html • http://ec.europa.eu/research/transport/index_en.cfm
Energy materials, energy storage, buildings	NMP	<ul style="list-style-type: none"> • http://cordis.europa.eu/fp7/cooperation/nanotechnology_en.html • http://ec.europa.eu/research/industrial_technologies/index_en.html
Bioenergy, energy plants	Food, agriculture and fisheries, biotechnology	<ul style="list-style-type: none"> • http://cordis.europa.eu/fp7/kbbe/home_en.html • http://ec.europa.eu/research/agriculture/index_en.html
Energy efficiency, smartgrids	Information & communication technologies	<ul style="list-style-type: none"> • http://cordis.europa.eu/fp7/ict/home_en.html • http://ec.europa.eu/information_society/tl/research/index_en.htm
Bioenergy, socio-economic research, buildings	Environment	<ul style="list-style-type: none"> • http://cordis.europa.eu/fp7/environment/home_en.html • http://ec.europa.eu/research/environment/index_en.htm
Socio-economic research	Socio-economic sciences and the humanities	<ul style="list-style-type: none"> • http://cordis.europa.eu/fp7/ssh/home_en.html • http://ec.europa.eu/research/social-sciences/index_en.html

Calls ENERGY-2012



Call identifier	Title	Published	Deadline	Budget	Submission
FP7-ENERGY-2012-1	ENERGY CALL PART 1	19.07.2011	25.10.2011	150	Two stage
FP7-ENERGY-2012-2	ENERGY CALL PART 2	19.07.2011	08.03.2012	81	One stage
FP7-ENERGY-SMARTCITIES-2012	Smart Cities And Communities	19.07.2011	01.12.2011	40	One stage
FP7-ERANET-2012-RTD	ERA-NET PLUS - BIOENERGY DEMONSTRATIONS OF THE EUROPEAN INDUSTRIAL BIOENERGY INITIATIVE			10	
FP7-2012-NMP-ENV-ENERGY-ICT-EeB	DEMONSTRATION OF ZERO CARBON BUILDING RENOVATION FOR CITIES AND DISTRICTS			35	

Calls ENERGY-2012



Area	Topic	Type	FP7-ENERGY-
ACTIVITY ENERGY 3: RENEWABLE FUEL PRODUCTION			
3.2: SECOND GENERATION FUEL FROM BIOMASS	ENERGY.2012.3.2.1: Biofuels from microalgae or macroalgae	CP	2012-1
	ENERGY.2012.3.2.2: Development and testing of advanced sustainable bio-based fuels for air transport	CP	2012-1
	Energy.2012.3.2.3: Pre-commercial industrial scale demonstration plant on lignocellulosic ethanol	CP demonstration	2012-2
3.7: CROSS-CUTTING ISSUES	ENERGY.2012.3.7.1: Development of new or improved logistics for lignocellulosic biomass harvesting, storage and transport	CP small & medium size	2012-1
2.6: OCEAN	Energy.2012.2.6-1: Demonstration and deployment of first ocean energy farms	CP demonstration	2012-2
.2.9: CROSS-CUTTING ISSUES	ENERGY.2012.2.9.1: Power generation in the low temperature range	CP	2012-1

Calls ENERGY-2012



Area	Topic	Type	FP7-ENERGY-
ACTIVITY ENERGY 4: RENEWABLES FOR HEATING AND COOLING			
4.1: LOW/MEDIUM TEMPERATURE SOLAR THERMAL ENERGY	ENERGY.2012.4.1.1: Research and development for medium temperature range solar collectors (100°-250°C)	CP	2012-1
ACTIVITY ENERGY.5: CO2 CAPTURE AND STORAGE TECHNOLOGIES FOR ZERO EMISSION POWER GENERATION			
5.2: CO2 STORAGE	ENERGY.2012.5.2.1: Sizeable pilot tests for CO2 geological storage	CP Funding from third parties	2012-1
	ENERGY.2012.5.2.2: Impact of the quality of CO2 on transport and storage behaviour	CP	2012-1
ACTIVITY ENERGY 5&6: CROSS-CUTTING ACTIONS BETWEEN ACTIVITIES ENERGY.5 AND ENERGY.6			
5&6.2: CROSS CUTTING AND REGULATORY ISSUES	Energy.2012.5&6.1-1 Pilot plant-scale demonstration of advanced post-combustion CO2 capture processes with a view to integration in fossil fuel power plants	CP demonstration	2012-2
	Energy.2012.5&6.1-2: Pilot plant-scale demonstration and integration of emerging and new combustion technologies	CP demonstration	2012-2
	ENERGY.2012.5&6.2.1: Support to the coordination of stakeholders' activities in the field of Zero Emission Energy Production	CSA-SA	2012-1

Calls ENERGY-2012



Area	Topic	Type	FP7-ENERGY-
ACTIVITY ENERGY 7: SMART ENERGY NETWORKS			
7.1: DEVELOPMENT OF INTER-ACTIVE DISTRIBUTION ENERGY NETWORKS	ENERGY.2012.7.1.1: Integration of variable distributed resources in distribution networks	CP	2012-1
	ENERGY.2012.7.1.2: Enhancing electricity networks through use of distributed intelligence	CP	2012-1
	ENERGY.2012.7.1.3: Empowering smart customers to participate in active demand and energy system efficiency	CP	2012-1
7.2: PAN-EUROPEAN ENERGY NETWORKS	ENERGY.2012.7.2.1: Planning for European Electricity Highways to ensure the reliable delivery of renewable electricity and market integration	CP	2012-x
7.3: CROSS CUTTING ISSUES AND TECHNOLOGIES	ENERGY.2012.7.3.1: Networking of national R&D and demonstration projects on smart metering infrastructure and data processing	CSA-CA	2012-1
	ENERGY.2012.7.3.2: Facilitating the deployment of safe stationary batteries	CP	2012-1
	ENERGY.2012.7.3.3: Support to the coordination of stakeholders activities in the field of Smart Grids	CSA-SA	2012-1
REGULATORY ISSUES	emerging and new combustion technologies	demonstration	2012-2
	ENERGY.2012.5&6.2.1: Support to the coordination of stakeholders' activities in the field of Zero Emission Energy Production	CSA-SA	2012-1

Calls ENERGY-2012



Area	Topic	Type	FP7-ENERGY-
ACTIVITY ENERGY 8: ENERGY EFFICIENCY AND SAVINGS			
8.1: EFFICIENT ENERGY USE IN THE MANUFACTURING INDUSTRY AND BUILDING SECTOR	ENERGY.2012.8.1.1: Next generation heat pump technologies	CP	2012-1
8.8: SMART CITIES AND COMMUNITIES	Energy.2012.8.8-1: Strategic sustainable planning and screening of city plans – Smart Cities and Communities Incubator	CSA-CA	SMARTCIT IES-2012
	Energy.2012.8.1-2: Large scale systems for urban area heating and/or cooling supply	CP demonstration	SMARTCIT IES-2012
	Energy.2012.8.1.3: Demonstration of Zero Carbon Building Renovation for cities and districts	CP demonstration	FP7-2012-ENV-ICT-ENERGY-NMP-EeB
ACTIVITY ENERGY.10: HORIZONTAL PROGRAMME ACTIONS			
10.1: ERA-NET PLUS ON BIOENERGY	Energy.2012.10.1.1 : ERA-NET Plus - Bioenergy Demonstrations of the European Industrial Bioenergy Initiative	CSA coordinating research activities	FP7-ERANET-2012-RTD
10.2: FUTURE EMERGING TECHNOLOGIES	ENERGY.2012.10.2.1: Future Emerging Technologies	CP	2012-1

PPPs in 7th Framework Programme

- › **Factories of the Future — FoF**
 - FP7 - Budget:** 645 M€
 - FP7-Theme:** NMP, ICT

- › **Energy Efficient Buildings — E2B**
 - FP7 - Budget:** 505 M€
 - FP7-Theme:** NMP, ICT, Energy, Environment

- › **Green Cars — GC**
 - FP7 - Budget:** 503 M€
 - FP7-Theme:** SST, ICT, NMP, Environment, Energy

- › FCH JTI – Art188, administered by FCH JU

Partner search engines



› **Partner Search CORDIS**

› <http://cordis.europa.eu/partners>

› **Managenergy**

› http://www.managenergy.net/partner_search

› **Ideal-IST**

› <http://www.ideal-ist.net/partner-search>

› **ICT-PSP**

› http://ec.europa.eu/information_society/activities/ict_psp/cf/partner/login/index.cfm

› **IGLO**

› <http://www.iglortd.org/services/partner.html>

› **SMEs**

› <http://www.ncp-sme.net/partner-search>

› www.enterprise-europe-network.ec.europa.eu/services/technology-transfer

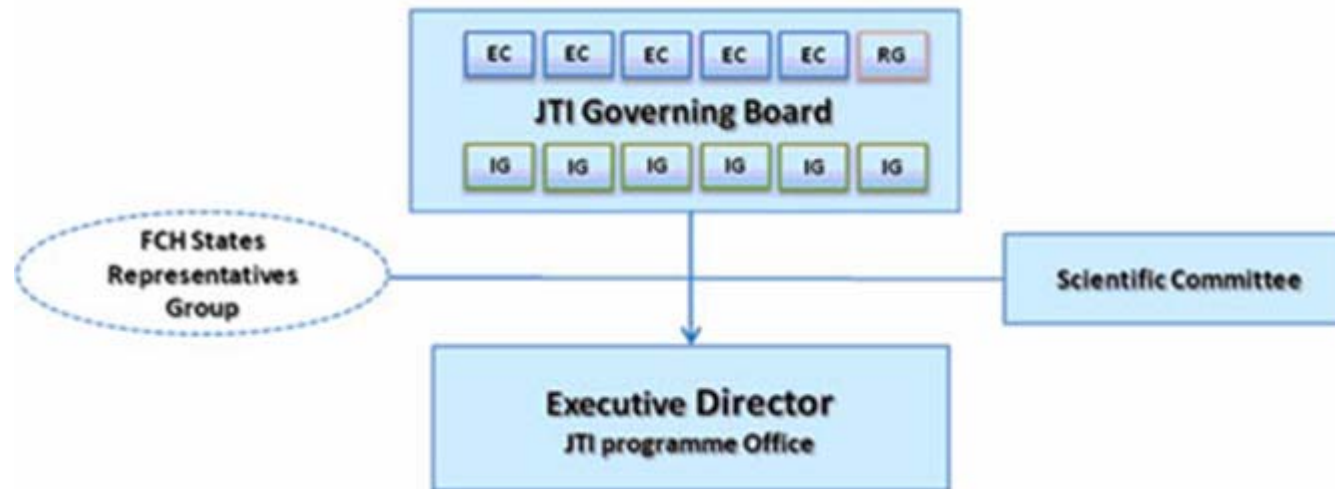


Struktur and Budget of FCH JU

Public share: 450 Mill. €

Private share: in-kind

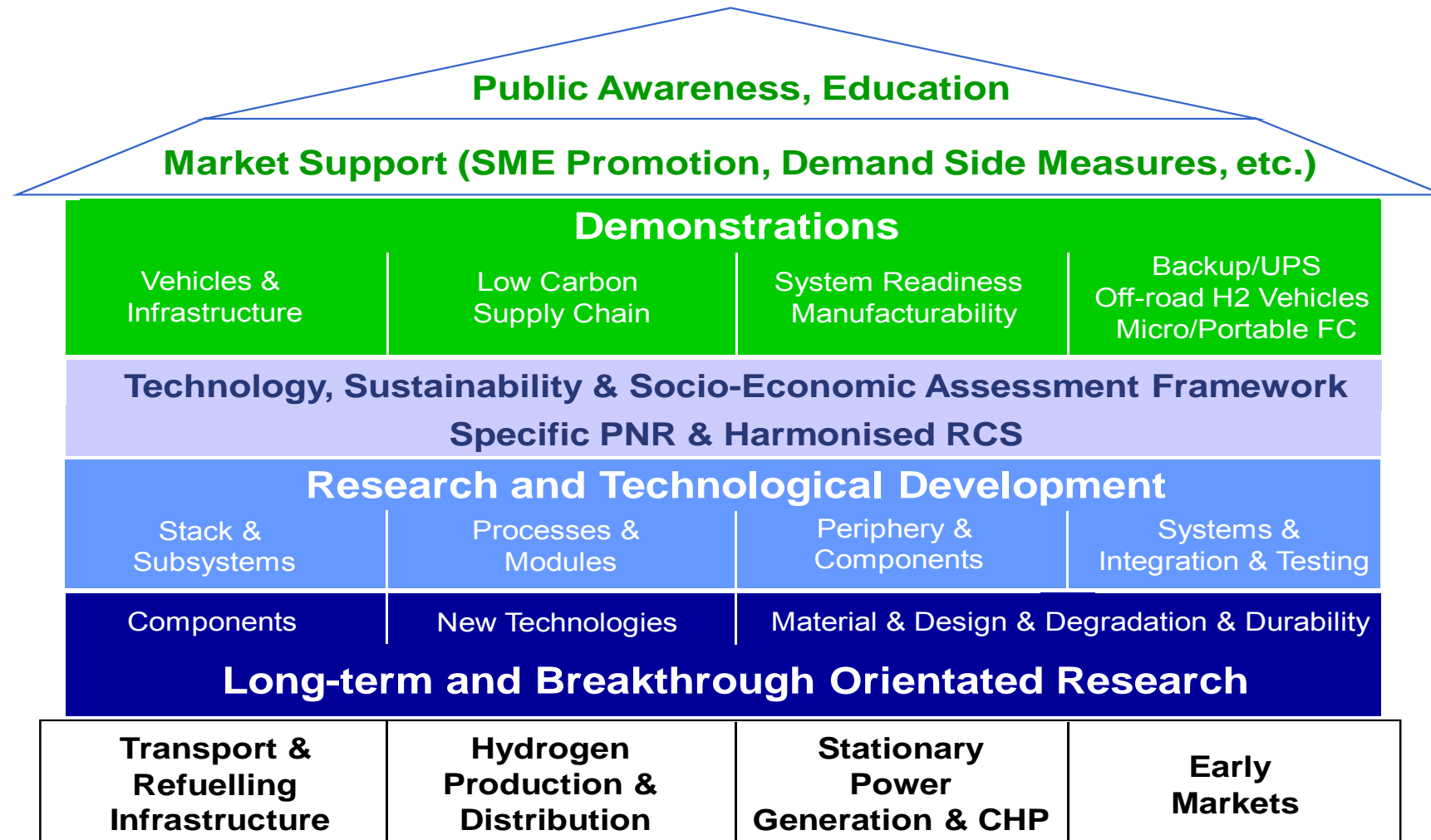
Should match each other



Governing Board: IG, RG, COM

Kommission 5 Sitze; Forschungsgruppe 1 Sitz

Preliminary Structure of the MAIP



Budget and cost sharing of the Fuel Cells and Hydrogen JU

- › For 2008 – 2013: € **940 M (minimum)**
- › EC budget : € **470 M (in cash)**
- › Industry : € **450 M (minimum in kind), € 20 M (in cash)**
- › Close follow-up to monitor and ensure the 50/50 cost sharing between the Community and industry

Financing

Direct Costs

Type of Organisation	Type of Activity <small>CP= coordinated projects; CSA= coordination / support action</small>		
	RTD	Demonstration	Other
Industry <small>(other than SME)</small>	CP: < 50% CSA:< 100%	CP: < 50% CSA: < 100%	CP: < 100% CSA: < 100%
SME	CP: < 75% CSA:< 100%		
Non-profit <small>(public, research, ...)</small>	CP: < 75% CSA:< 100%		

Indirect costs: 20% of direct costs

CALL FCH JU 2011-1

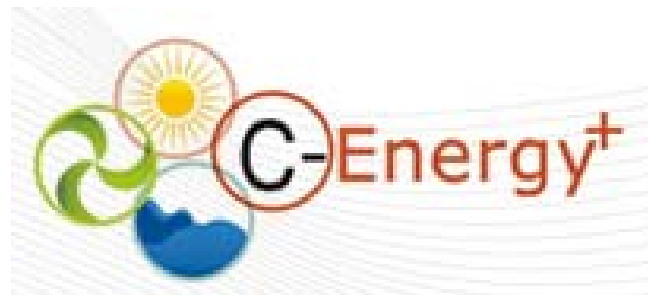
- › published 3. Mai 2011
- › Deadline 18. August 2011
- › Budget 109 Millionen EUR
- › 36 Topics
- › Info: www.fch-ju.eu

European Network of Energy-NCPs

- › 3 years EU-Project C-ENERGY+
- › www.c-energyplus.eu
 - › Contacts
 - › Brokerage Events
 - › Partner Search (no dedicated engine)
 - › Russian partner

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<http://www.fp7-energy.ru>





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