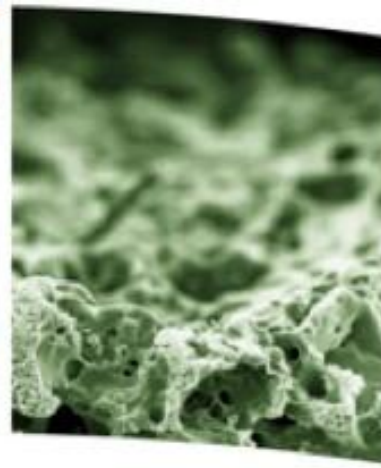




Institut de Recerca en Energia de Catalunya
Catalonia Institute for Energy Research



ENERGY Working Group

Manel Sanmartí

Barcelona, 9th January 2014

GRUP
Connect-EU
Energia

Amb el suport de:

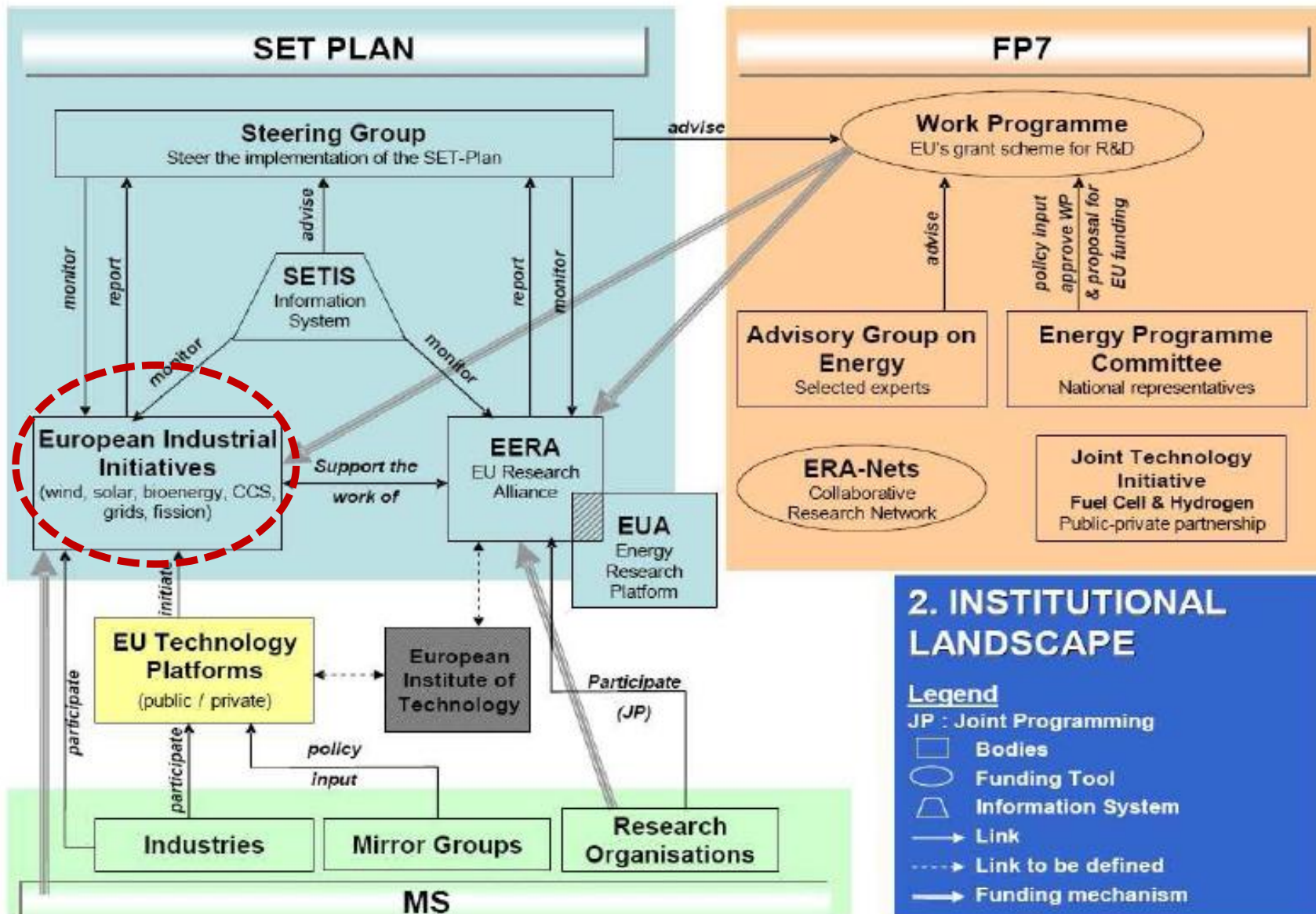
ACCÍO
Competitivitat per l'empresa

talència
CATALUNYA RECERCA

 Generalitat
de Catalunya

European Energy Research Priorities

SET-PLAN + PPPs



CONNECT-EU NETWORK

In 2010 **ACC1Ó** and **AGAUR** sponsor a group of Catalan research entities and industrial companies to promote in Brussels the Catalan research and innovation in front of the European Institutions in order to:

- **Increase the presence of research institutions and industrial companies** in European R+D+i projects
- Collect and steer the Catalan interests towards Europe
- **Increase the participation of researchers** and groups of experts as evaluators of European projects
- **Communicate and promote the alignment of Catalan and European** research priorities and agendas
- **Disseminate information** about the opportunities to participate in European research projects to the Catalan industrial sector



Amb el suport de:

ACC1Ó
Competitivitat per l'empresa



Agència
de Gestió d'Ajuts
Universitaris
i de Recerca

 Generalitat
de Catalunya

CONNECT-EU NETWORK WORKING GROUPS

“THE FIRST CATALAN LOBBY GROUP IN EUROPE”

Organized through **15 working groups** of the Connect-EU Network from a public competitive call.

Each of these 15 groups represent the representative **technological areas of the Catalan industrial sector** :

- Aerospace
- Agro alimentary
- Water
- Sustainable Automation
- Sustainable Catalysis
- Social sciences and Humanities
- **Energy**
- Factories of the future
- Photonics and electronic systems
- Materials
- Media, mobility and interaction
- Nanobio + Nanomed technologies
- Health
- Information and Communication Technologies
- Medical Technologies

CONNECT-EU ENERGY GROUP

The CONNECT-EU Energy group works in **two axes**:

Influence, with the objective of:

- Participate in the **Horizon 2020 programs definition**, analysis of each program/call,
- Participate in **Technological Platforms** representing Catalan interests in the Energy Sector.
- Evaluate the **results** of the participation and proposal of improvement actions.

Dissemination, with the objective of:

- Disseminate **information about the 7th FP** and other European instruments like the Framework Program for Competitiveness and Innovation (CIP), JTI's...
- Perform **informative actions**, to guide, support and train the working subgroups
- Participate in “**infodays**” organized by ACC1Ó
- Disseminate the Group Activity through its web page :

<http://energia.connect-eu.cat/>

ENERGY WORKING GROUP

CONNECT-EU Network	Leader	CATALAN CONTACT POINT
Energy	IREC	Ramón Garriga
GRUPS DE TREBALL	COORDINADOR	CATALAN CONTACT POINT
Wind energy	ALSTOM WIND	Josep Prats
Solar (photovoltaics and concentration)	SOLARTYS	Carolina Ortegón
Smart Grid & Power Electronics	CITCEA-UPC	Joan Bergas
Bioenergy	IREC	Joan Salvadó
Renewable Heating & Cooling / Low or Zero Energy Buildings	AIGUASOL	Oriol Gavaldà
Energy Efficiency & Smart Cities	COMSA EMTE	Albert Cot
Electric Vehicle "off board"	CIRCUTOR	Jordi Serra

STRATEGIC AGENDAS AND PARTICIPANT ENTITIES (1/3)

SUBGRUP	PRIORITATS	ENTITATS
<p>Energia Eòlica (ALSTOM WIND)</p>	<ul style="list-style-type: none"> • New machines and components; • Off shore technology; • Grid integration; • Wind resource and assessment at see 	<ul style="list-style-type: none"> • Gas Natural Fenosa, • Comsa Emte, • Prysmian, • Altres PIMES catalanes
<p>Solar (SOLARTYS)</p>	<ul style="list-style-type: none"> • Distributed generation Systems (solar, thermal and thermoelectric) 	<ul style="list-style-type: none"> • Brown Advance, • Crovisa, • Dimat, • Emikon Electrónica, • Green Power Technology, • TFM Energia Solar Fotovoltaica, • Trama Tecnoambiental (TTA)
<p>Smart grid (CITCEA-UPC)</p>	<ul style="list-style-type: none"> • “Active subestations” • “Micro Grids” • Quality of Supply • Communications PLC, Wi-Fi, ZigBee. • Energy Efficiency in transformer and transformation stations • “Automatic Meter Readin (AMR) and Automatic Meter Management (AMM)” 	<ul style="list-style-type: none"> • Cap Gemini • SADIEL • ATLAN • DIMAT • ICAEN • AEB

STRATEGIC AGENDAS AND PARTICIPANT ENTITIES (2/3)

SUBGRUPO	PRIORIDADES	ENTIDADES
<p>Bioenergy (IREC)</p>	<ul style="list-style-type: none"> • Microalgui and 2nd generation raw material for biofuels production and chemistry added value products; • Hidrolitic processing for biomass pre-treatment, fractioning and conversion to celulitic ethanol; • Chemical thermo-conversion of biomass and solid fuels for energy production, 2nd generation bifuels and hidrogen priduction. 	<ul style="list-style-type: none"> • Centre Tecnològic Forestal de Catalunya
<p>Renewable heating and cooling / low or zero energy buildings (RHC&LZEB) (AIGUASOL)</p>	<ul style="list-style-type: none"> • Development, promotion and implementation of technologies for renewables deployment for climatization of buildings or districts and industrial processes, • Development of constructive technologies, urban solutions and simulation tools for the design of low or zero energy buildings or districts. • <i>"District Heating and Cooling"</i> • Electric and electronic systems for the energy efficiency improvement of buildings. 	<ul style="list-style-type: none"> • ASIT • COGEN • A3E • CEEC • ACTECIR

STRATEGIC AGENDAS AND PARTICIPANT ENTITIES (3/3)

SUBGRUPO	PRIORIDADES	ENTIDADES	
<p>Energy Efficiency & Smart Cities</p> <p>(COMSA EMTE)</p>	<ul style="list-style-type: none"> • “Inteligent” Mobility • Railway Sector • Lighting • “Energy positive districts” • Buildings Energy Management 	<ul style="list-style-type: none"> - CEEC, Railgroup; - Copcisa Industrial, - Schneider Electric, - S&P, - Endesa, - Cofely, - Salicru, - Simon, - Circutor, - Kromschroeder, - Siemens, 	<ul style="list-style-type: none"> - Sener, - GTD, - CENIT-UPC, - PGI, - SECE, - Gas Natural Fenosa, - Arelsa, - Enertika, - Pamias, - GPO, - DEXMA
<p>Electric Vehicle “off board”</p> <p>(CIRCUTOR)</p>	<ul style="list-style-type: none"> • <i>Green Car</i> EU Program • Charging points and infrastructure; • Management systems for grid integration of EV charging infrastructure; • Energy pricing systems for e-mobility; • Renewable Energy Intergration; • Battery Management Systems. 	<ul style="list-style-type: none"> • Comsa Emte • E moviment • Initzia Renovables • Ascamm • Schneider • Clúster Eficiència Energètica CEEC • Citcea • Àrea Electricitat i Electrònica de Potència, IREC 	



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