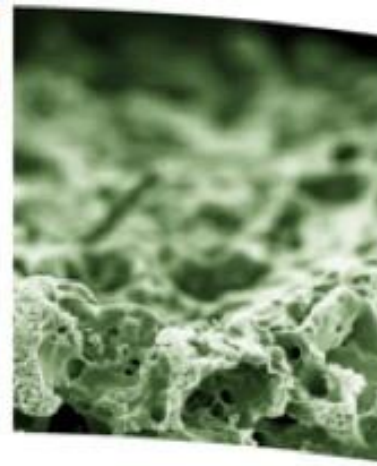




Institut de Recerca en Energia de Catalunya  
Catalonia Institute for Energy Research



## ENERGY Working Group

Manel Sanmartí

Barcelona, 9th January 2014

**GRUP**  
**Connect-EU**  
Energia

Amb el suport de:

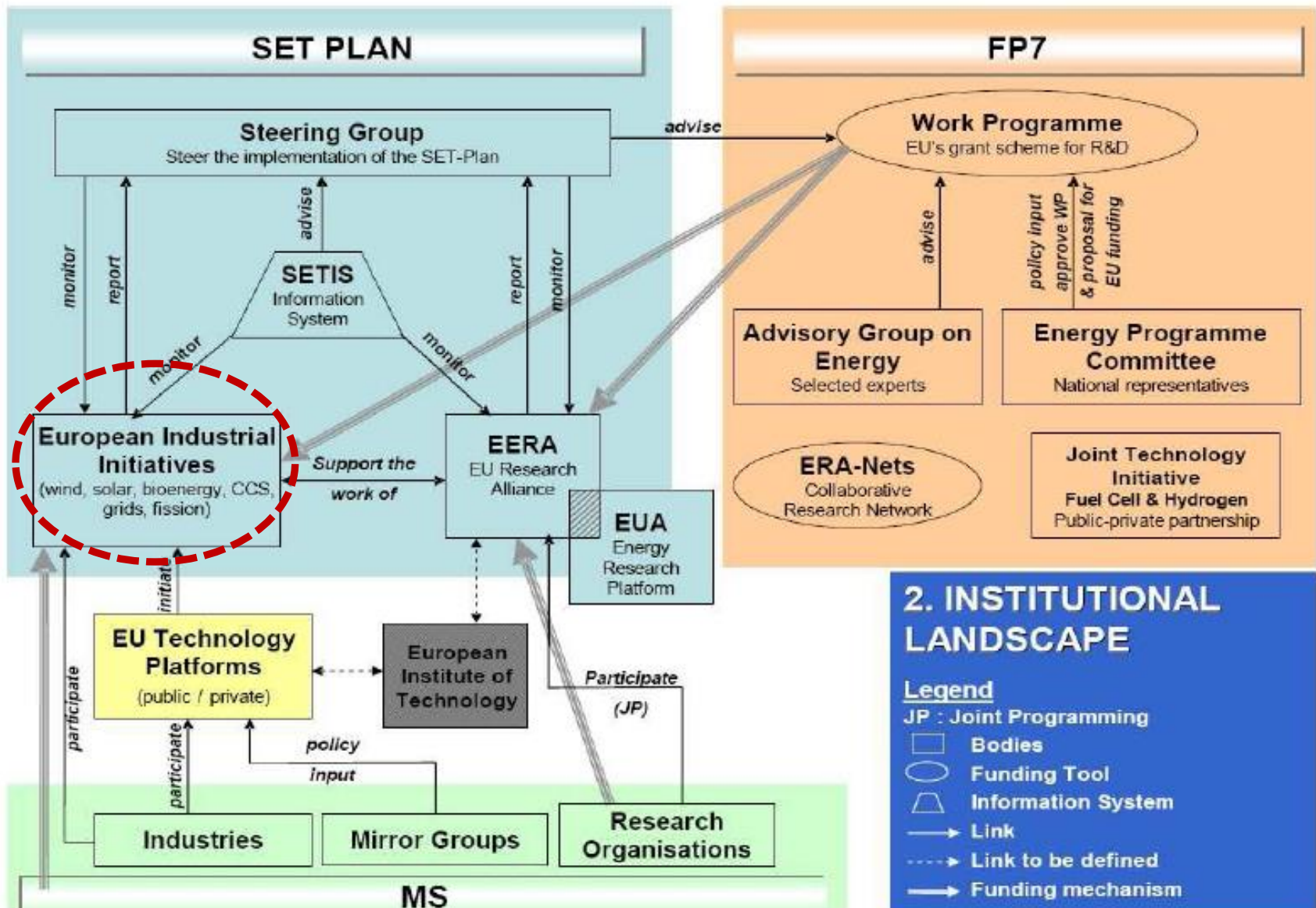
**ACCÍO**  
Competitivitat per l'empresa

**talència**  
CATALUNYA RECERCA

 Generalitat  
de Catalunya

# European Energy Research Priorities

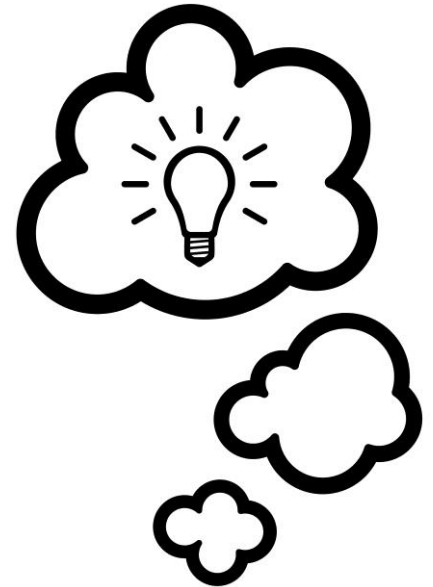
## SET-PLAN + PPPs



# CONNECT-EU NETWORK

In 2010 **ACC10** 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:

**ACC10**  
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

<b>CONNECT-EU Network</b>	<b>Leader</b>	<b>CATALAN CONTACT POINT</b>
Energy	IREC	Ramón Garriga
<b>GRUPS DE TREBALL</b>	<b>COORDINADOR</b>	<b>CATALAN CONTACT POINT</b>
Wind energy	ALSTOM WIND	Josep Prats
Solar (photovoltaics and concentration)	SOLARTYS	Carolina Ortegon
Smart Grid & Power Electronics	CITCEA-UPC	Joan Bergas
Bioenergy	IREC	Joan Salvadó
Renewable Heating & Cooling / Low or Zero Energy Buildings	AIGUASOL	Oriol Gavalda
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
Energia Eòlica <b>(ALSTOM WIND)</b>	<ul style="list-style-type: none"> <li>• New machines and components;</li> <li>• Off shore technology;</li> <li>• Grid integration;</li> <li>• Wind resource and assessment at sea</li> </ul>	<ul style="list-style-type: none"> <li>• Gas Natural Fenosa,</li> <li>• Comsa Emte,</li> <li>• Prysmian,</li> <li>• Altres PIMES catalanes</li> </ul>
Solar <b>(SOLARTYS)</b>	<ul style="list-style-type: none"> <li>• Distributed generation Systems (solar, thermal and thermoelectric)</li> </ul>	<ul style="list-style-type: none"> <li>• Brown Advance,</li> <li>• Crovisa,</li> <li>• Dimat,</li> <li>• Emikon Electrónica,</li> <li>• Green Power Technology,</li> <li>• TFM Energia Solar Fotovoltaica,</li> <li>• Trama Tecnoambiental (TTA)</li> </ul>
Smart grid <b>(CITCEA-UPC)</b>	<ul style="list-style-type: none"> <li>• "Active subestations"</li> <li>• "Micro Grids"</li> <li>• Quality of Supply</li> <li>• Communications PLC, Wi-Fi, ZigBee.</li> <li>• Energy Efficiency in transformer and transformation stations</li> <li>• "Automatic Meter Reading (AMR) and Automatic Meter Management (AMM)"</li> </ul>	<ul style="list-style-type: none"> <li>• Cap Gemini</li> <li>• SADIÉL</li> <li>• ATLAN</li> <li>• DIMAT</li> <li>• ICAEN</li> <li>• AEB</li> </ul>



## STRATEGIC AGENDAS AND PARTICIPANT ENTITIES (2/3)

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



## STRATEGIC AGENDAS AND PARTICIPANT ENTITIES (3/3)

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



## Trustees:



## Financing from:

