ENERGIA: la partecipazione italiana in HORIZON 2020

RICCARDO BASOSI

Università degli Studi di Siena

Rappresentante Italiano nel Comitato di Programma H2020 “Secure, clean and efficient Energy” e Delegato MIUR per il SET PLAN
80% of this energy is obtained from FOSSIL FUELS.

Massive exploitation of fossil fuels started.

Energy from humans, animals, fire and wind.

Egypt, Rome.

Depletion time (years):
- OIL: 50-55
- GAS: 65-70
- COAL: 150-160
- URANIUM: 40-50

Discovery of America
Fall of the Western Roman Empire
Beginning of the Christian era

can this last forever?
World atmospheric concentration of CO2 and average global temperature change

Note: The temperature refers to the NASA Global Land-Ocean Temperature Index in degrees Celsius, base period: 1951-1980. The resulting temperature change is lower than the one compared with pre-industrial levels.

Sources: Temperature data are from NASA (2013); CO₂ concentration data from NOAA Earth System Research Laboratory.
In the Middle East are located more than 60% of total reservoir
“Clean energy” doesn’t exist (the only clean energy, is the one we do not need to use, that is to say: the saved energy)

Energy prominently derives or was derived from the sun.
EU 2020 goals
Where are we today ...and progress towards the EU 2030

Greenhouse Gas Emissions
Share of Renewables
Reduce Energy Consumption

EU 20/20/20 goals

EU Targets 2030
- 2030 Climate-Energy Package
  From 20/20/20 to 40/27/27

- Energy Union
  Energy security, solidarity and trust
  A fully integrated internal energy market
  Energy efficiency first
  Transition to a low-carbon society
  An Energy Union for Research, Innovation and Competitiveness

- Set-Plan & Integrated Roadmap

- Summer Package
  Electricity Market Design
  Retail Market
HORIZON 2020 (78 MLD)

Tre priorità:
1. Scienza di Eccellenza
2. Leadership Industriale
3. Sfide della Società
Top 10 countries with the largest EC Contribution in H2020
How many applications have been received?

Number of eligible applications to Horizon 2020 per EU Member State

111,579 applications were received from the 28 Member States of the EU (out of a worldwide total of 123,334) under the first 100 calls. By way of comparison, a total of 598,080 applications were received during the seven-year lifetime of FP7. An applicant organisation counts as submitting multiple applications for funding if it is involved in more than one proposal.
What is the rate of applications by country?

Number of eligible applications to Horizon 2020 per capita

The data presented here is the number of applications per million inhabitants. The average number of eligible applications per capita for the 28 Member States as a whole is 293. Some smaller Member States, in particular Cyprus, Luxembourg and Slovenia, are particularly active, which demonstrates the attractiveness of Horizon 2020.
What percentage of proposals received funding in H2020?

Success rate of eligible full proposals

This chart concerns the 31,115 full proposals that were received, comprising 29,794 full proposals in single-stage calls and 1,321 full proposals in the second stage of the two-stage calls. Around 14% of full proposals were selected for funding, a success rate which reflects the very high number of eligible proposals made to the first 100 calls. The success rate of eligible proposals over the full seven-year duration of the Seventh Framework Programme for Research (FP7) was around 20%.
Which types of organisations applied to Horizon 2020?

Number of applications to Horizon 2020 per type of organisation

- Universities (HES): 37,060 (86%), 5,977 (14%)
- Private Sector (PRC): 32,296 (85%), 5,566 (15%)
- Research Organisations (REC): 18,315 (81%), 4,164 (19%)
- Public Bodies (PUB): 12,737 (81%), 3,011 (19%)
- Other Entities (OTH): 1,133 (27%), 3,075 (73%)

Universities are in first place in terms of the overall number of eligible applications, followed by the private sector and research organisations.
Horizon 2020 is different.....

- Integration of Research and Innovation Instruments
- Emphasis on the impact on Society, Industry and Jobs
- A strong challenge-based approach, allowing applicants to have considerable freedom to come up with innovative solutions
- Simplified list of actions (IA, RIA, CSA)
- Less prescription, strong emphasis on expected impact
- Broader topics. Cross-cutting issues mainstreamed (e.g. social sciences, gender, international...)
Overcoming the valley of death

Losses/Profit vs. Time

FP7

H2020

Research Development

Technology Transfer

Product Launch

Success as a New product

Valley of Death

Commercialization

Success as a business

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Lessons from previous evaluations

- **Read the call text – it's the key!**
  - Excellence: clearly describe the state of the art and how the project goes beyond it
  - IMPACT (x1.5 – for demo projects)
  - Quantify impacts as much as possible
  - Justify existing and respect **TRL** levels

- **No negotiation – evaluated as is**
Technology Readiness Levels (TRLs) – a useful tool in development and deployment of KETs

- in FP7: TRLs 1 – 4;
  up to 5-6 in 2012-13 (pilots and demonstrators)
- KETs: TRLs 3/4 – 8; centre at TRLs 5-7
Technology Readiness Level

TRL 4: Small Scale Prototype Development Unit (PDU)
The components of the technology have been identified. A PDU has been built a laboratory and controlled environment. Operations have provided data to identify potential up scaling and operational issues. Measurements validate analytical predictions of the separate elements of the technology. Simulation of the processes has been validated. Preliminary LCA and economy assessment models have been developed.

TRL 5: Large Scale Prototype Development Unit
The technology has been qualified through testing in intended environment, simulated or actual. The new hardware is ready for first use. Process modelling (technical and economic) is refined. LCA and economy assessment models have been validated. Where it is relevant for further up scaling the following issues have been identified: Health & safety, environmental constraints, regulation, and resources availability.

TRL 6: Prototype System
The components and the process have been up scaled to prove the industrial potential and its integration within the energy system. Hardware has been modified and up scaled. Most of the issues identified earlier have been resolved. Full commercial scale system has been identified and modelled. LCA and economic assessments have been refined.

TRL 7: Demonstration System
The technology has been proven to work and operate a pre-commercial scale. Final operational and manufacturing issues have been identified. Minor technology issues have been solved. LCA and economic assessments have been refined.

...... 10/11/2015
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H2020 budget of nearly 75 billion € (2014-2020)

- **Industrial Leadership**: EUR 17.0 billion
- **Societal Challenges**: EUR 29.7 billion
- **Excellent Science**: EUR 24.4 billion
- **European Institute of Innovation and Technology**: EUR 2.7 billion
- **Other**: EUR 3.2 billion
- **Euratom (2014-2018)**: EUR 1.6 billion

A single programme coupling research to innovation
### Societal Challenges

**EUR 29.7 billion**

<table>
<thead>
<tr>
<th>Challenge</th>
<th>Budget 2014-20 (EUR billion)</th>
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<tbody>
<tr>
<td>1. Health, demographic change and wellbeing</td>
<td>7.5</td>
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<tr>
<td>2. Food security, sustainable agriculture and forestry, marine and maritime and inland water research and the Bioeconomy</td>
<td>3.9</td>
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<tr>
<td><strong>3. Secure, clean and efficient energy</strong></td>
<td><strong>5.9</strong></td>
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<tr>
<td>4. Smart, green and integrated transport</td>
<td>6.3</td>
</tr>
<tr>
<td>5. Climate action, environment, resource efficiency and raw materials</td>
<td>3.1</td>
</tr>
<tr>
<td>6. Inclusive, innovative and reflective societies</td>
<td>1.3</td>
</tr>
<tr>
<td>7. Secure societies</td>
<td>1.7</td>
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Energy issues are not only in the challenge «Secure, Clean and Efficient Energy”
Other H2020 programme areas with topics concerning energy

**Societal Challenges**

- Smart, green and integrated **transport**

- **Climate** Action, Environment, Resource Efficiency and Raw Materials

- Agriculture

**Industrial Leadership**

- Leadership in enabling and industrial technologies (LEIT)

- Information and Communication Technologies (ICT)

- Nanotechnologies, Advanced Materials, Advanced Manufacturing and Processing, and Biotechnology (NMBP)

**Innovation in SMEs**
Total Budget NMP+B 2014-2015 : 992,2 € million

Budget 2014: 488,2 € million;
Budget 2015: 504 € million

Contributions to other programme (ICT/WASTE) 1,8%

- Energy Efficient Buildings 11,5%
- Sustainable Process Industries 13,5%
- Factories of the Future 16%
- BIOTECH 7,9%
- NMP 49,2%

41% of the NMP+B Budget for PPP
The Horizon 2020 Societal Challenge
“Secure, clean and Efficient Energy
2014 Calls (607 M€)
The Horizon 2020 Societal Challenge “Secure, clean and Efficient Energy 2015 Calls (647 M€)
Lessons Learned from 2014-2015 calls

*Over-subscription in term of available budget:*

- 2 stage evaluation: Stage 1 – a factor 20
- Single stage evaluation: a factor 3 to 5

*In the renewable/fuels area all TRLs have been addressed:*

The full development chain is positive

*Considering the EU Energy Policies and climate package:*

- Energy Union
- SET-Plan Integrated Roadmap
- SET-Plan Industrial Initiatives Implementation Plan
- European Technology Platforms Strategic Research Agenda
Partecipazione Italiana sull’Energia in FP7 vs FP6

courtesy of G. Zollino

Nei 6 anni 2007-2012, ai 27 PM assegnati in tutto ~1450 M€;

da partecipanti italiani ~175 M€ (12%);
~1/4 per attività di ricerca (DG-RTD), ~3/4 per dimostrazione (DG-ENER);

Italia al 3° posto tra i PM;

Per tutto il 7° PQ, la quota ai partecipanti italiani è in media ~8.5%; il tema Energia è quindi un’eccezione positiva;

Per i topic Energia del 6° PQ, quota assegnata a partecipanti italiana ~6% del budget disponibile.
Ultimi dati sulla partecipazione italiana ai bandi « energia » 2014-15 di H2020

**H2020 - Bandi energia 2014-2015 – Contributo CE: % di budget allocato**
(ultimo aggiornamento 30/10/2015)

- **Tot. budget allocato all’IT: € 82,8 M (al 30/10/2015)**

- **Tasso di successo – partecipanti:** 11,8% (Media H2020: 11,1%)
- **Tasso di successo – coordinatori:** 10,2% (13%)
- **L’IT è presente nella metà delle proposte presentate** (51,1%) e in quelle **finanziate** (50,7%)

*10/11/2015*
**Bandi 2014-15 “Energia sicura, pulita ed efficiente”**
*(Aggiornamento al 30.10.2015)*

<table>
<thead>
<tr>
<th>No. topics</th>
<th>Budget allocato Mld EUR</th>
<th>Proposte presentate</th>
<th>Proposte finanziate</th>
<th>Tasso di successo</th>
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<tbody>
<tr>
<td>66</td>
<td>€ 1,0 Mld</td>
<td>1545</td>
<td>201</td>
<td>13,0 %</td>
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**Partecipazione**

<table>
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<tr>
<th>No. Partecipanti italiani in proposte presentate</th>
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<th>Tasso di successo partecipanti Italiani</th>
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<tr>
<td>1819</td>
<td>215</td>
<td>11,8 %</td>
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</table>

**Contributo finanziario per l’Italia**

€ 82,8 M
(8,1 % del budget allocato)

**Coordinamento**

<table>
<thead>
<tr>
<th>No. Proposte presentate a coordinamento italiano</th>
<th>No. Coordinamenti italiani finanziati</th>
<th>Tasso di successo coordinatori Italiani</th>
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<td>19</td>
<td>10,2 %</td>
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Bandi 2014-15 “Energia sicura, pulita ed efficiente”
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Contributo finanziario per l’Italia

€ 82,8 M

(8,1 % del budget allocato)
### H2020 participation (main competitors) – Participants per MS

<table>
<thead>
<tr>
<th>Country</th>
<th>N. partecipanti</th>
<th>N. finanziati</th>
<th>Tasso di successo medio partecipanti</th>
</tr>
</thead>
<tbody>
<tr>
<td>GER</td>
<td>1786</td>
<td>284</td>
<td>15,9%</td>
</tr>
<tr>
<td>SP</td>
<td>1914</td>
<td>276</td>
<td>14,4%</td>
</tr>
<tr>
<td>UK</td>
<td>1423</td>
<td>220</td>
<td>15,5%</td>
</tr>
<tr>
<td>IT</td>
<td>1819</td>
<td>215</td>
<td>11,8%</td>
</tr>
<tr>
<td>FR</td>
<td>828</td>
<td>149</td>
<td>18,0%</td>
</tr>
<tr>
<td>NL</td>
<td>726</td>
<td>128</td>
<td>17,6%</td>
</tr>
<tr>
<td>BE</td>
<td>679</td>
<td>126</td>
<td>18,6%</td>
</tr>
</tbody>
</table>

**Success Rate- Italy: 11,8 % (average: 11,1 %)**
Success Rate - Italy: 10,2% (average: 13,0%)
Italian Evaluators for different sector of origin

- University: 41%
- Private: 43%
- Public Administration: 7%
- Private Bodies: 5%
- Associations: 5%
- Public Research Centres: 4%
EVALUATION AWARD CRITERIA

1. Excellence
2. Impact
3. Quality & efficiency of implementation

• "Excellence": your chance for your selling points. Make choices, focus, have a clear direction, remove unnecessary elements, innovate. Win by explaining.

• "Impact": Be ambitious. Quantify. Plan activities to monitor your performance. Keep links to your actual work plan.

• "Resources: Invest time into your work plan - this is the opportunity to convince evaluators that you can materialise your vision. Invest time into your resource planning –bottom up."
EU EXECUTIVE AGENCIES
EASME & INEA

Turn policy into action

Organise Calls for proposals

Monitor the technical and financial implementation of projects

Ensure sound financial management

Manage project life-cycle
**INEA's Energy Portfolio**

**Low-Carbon Energy**
- 2014: 62 projects, €366m
- 2015: 44 projects, €344m

**Smart Cities**
- 2014: 3 projects, €72m
- 2015: 4 projects, €103m
Low Carbon Energy Outcomes of 2014-2015 (710 M€)

Decarbonisation of the use of fossil fuels

Ocean Energy

MS Joint Actions (ERANET & CSA)

Geothermal

Wind

Market Uptake measures

Photovoltaic

CSP

New Knowledge Technology

Alternative fuels

Solar Heating & Cooling

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10/11/2015
EASME's Energy Portfolio

H2020 Energy Efficiency Projects
- 2014: 56 projects, €104m
- 2015: 50-60 projects, ~€100m

H2020 SME Instrument Projects
Phase I (idea to concept) 141 projects, €7m
Phase II (concept to market) 42 projects, €60m
Work Programmes (WP) of Energy Challenge

H2020 Programme will develop in 7 years (2014 – 2020)

Challenge Secure, Clean and Efficient Energy activities will develop according to the planning defined by three consecutive Work Programmes

1° WP (WP 14-15)  2° WP (WP 16-17)  3° WP (WP 18-20)

2014  2016  2018  2018

1° WP calls are currently underway (2015)

2° WP adopted in October and calls are now in progress

10/11/2015
Over-arching aims of the ENERGY Calls

**Globally to achieve policy objectives**
- European industries to be world leaders (technology & market)
- Motivate deployment of new technologies
- Develop a new energy system

**Sectorially to complement past and present activities**
- Pursuing technology development to be more cost efficient and cost competitive.
- To push emergent technologies
1. Competitive low-carbon energy (LCE)

2. Energy Efficiency (EE)

3. Smart Cities and Communities – with nature-based solutions (SCC)

4. Stimulating the innovation potential of SMEs for a low carbon and efficient energy system (SIE)
The Horizon 2020 Societal Challenge
“Secure, clean and Efficient Energy
2016 Calls (673 M€ of 1344 M€)

Competitive Low-Carbon Energy 351.6 M
Smart Cities and Communities 60.5M
Energy Efficiency 93M
Fast Track to Innovation
Other actions (e.g. tenders; ELENA; InnovFIN…)
SME Instrument 46M
WP 16-17 : activity tipologies

**IA**: Innovation Action – TRL high

**RIA**: Research and Innovation Action – TRL medium and low

**CSA**: Coordination and Support Action (overcome of non-technical barriers, market up-take, etc.)

Subjects involved: Industry, University, Research Center, PA, Trade Association
## LCE 1-5 Overview

<table>
<thead>
<tr>
<th>Topic</th>
<th>Focus</th>
<th>Instrument</th>
<th>TRL</th>
<th>MEur per Project</th>
<th>Funding for 2016 MEur</th>
<th>Funding for 2017 MEur</th>
</tr>
</thead>
<tbody>
<tr>
<td>LCE 1</td>
<td>Grid&amp;Storage: Distribution</td>
<td>Research (RIA)</td>
<td>3-6</td>
<td>2-4</td>
<td>20.0</td>
<td>18.0</td>
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<tr>
<td>LCE 2</td>
<td>Grid&amp;Storage: Distribution</td>
<td>Demo (IA)</td>
<td>5-8</td>
<td>12-15</td>
<td>73.5</td>
<td>0.0</td>
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<tr>
<td>LCE 3</td>
<td>R&amp;I Strategy</td>
<td>CSA</td>
<td>4</td>
<td>4.0</td>
<td>0.0</td>
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<tr>
<td>LCE 4</td>
<td>Grid&amp;Storage: Transmission</td>
<td>Demo (IA)</td>
<td>5-8</td>
<td>15-20</td>
<td>0.0</td>
<td>65.1</td>
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<td>LCE 5</td>
<td>Tools for Integration</td>
<td>Research (RIA)</td>
<td>2-4</td>
<td>0.0</td>
<td>28.0</td>
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| Total  |                                |                     |     |                  | 97.5                   | 111.1                  |

! 2017: potential revision of topics and budget
(coverage of 2015 projects on transmission and large-scale storage + potential ERA-NET action relevant to ‘Towards an integrated EU energy system’ in call 2017)
## Renewable energies

<table>
<thead>
<tr>
<th></th>
<th>PV</th>
<th>CSP</th>
<th>Solar H&amp;C</th>
<th>Wind</th>
<th>Ocean</th>
<th>Hydr.</th>
<th>Geoth.</th>
<th>CHP</th>
<th>RES integration in the system</th>
<th>Bio- and Renewable Alternative Fuels</th>
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<tbody>
<tr>
<td><strong>Basic Research (TRL &lt;4)</strong></td>
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<td>LCE-6</td>
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<td><strong>Advanced Research (TRL 3-5)</strong></td>
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<td><strong>Demonstration (TRL 5-7)</strong></td>
<td>LCE-9</td>
<td>LCE-10</td>
<td>LCE-11</td>
<td>LCE-12</td>
<td>LCE-13</td>
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<td>LCE-8, LCE-22</td>
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<td><strong>Market uptake</strong></td>
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La partecipazione italiana al tema Energia del FP7 (courtesy of G. Zollino)

Quota del budget di area tematica a partecipanti italiani

Contributo a partecipanti Italiani, in percentuale rispetto al budget comunitario dedicato a ciascuna area tematica nel quinquennio 2007-2011

<table>
<thead>
<tr>
<th>Area Tematica</th>
<th>EC contribution as % of area available budget</th>
</tr>
</thead>
<tbody>
<tr>
<td>FET+MAT</td>
<td></td>
</tr>
<tr>
<td>ENERGY EFF</td>
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<tr>
<td>SMRTG-trans</td>
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<tr>
<td>SMRTG-distr</td>
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<tr>
<td>CCS -Clean coal</td>
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<tr>
<td>Geoth Heat</td>
<td></td>
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<tr>
<td>Solar H&amp;C</td>
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<tr>
<td>Biofuel from algae</td>
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<td>Biomass G2 biofuel</td>
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<td>CSP</td>
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**2007-2012**

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<tr>
<td>FET+MAT</td>
<td>Tecnologie Emergenti per il Futuro e Materiali per l'Energia</td>
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<tr>
<td>ENERGY EFF</td>
<td>Misure di efficienza energetica (inclusi CIVITAS, CONCERTO, SMARTCITIES)</td>
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<tr>
<td>SMGR-trans</td>
<td>Reti elettriche intelligenti (Smart Grids) per la trasmissione</td>
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<tr>
<td>SMGR-distr</td>
<td>Reti elettriche intelligenti (Smart Grids) per la distribuzione</td>
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<td>CCS-Clean coal</td>
<td>Tecnologie per il carbone pulito con cattura e sequestro geologico di CO2</td>
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<td>Geoth Heat</td>
<td>Riscaldamento da fonte geotermica</td>
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<td>Solar H&amp;C</td>
<td>Riscaldamento e/o raffrescamento da fonte solare</td>
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<td>Bio-combustibili di 2^ generazione da biomassa</td>
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<td>CSP</td>
<td>Elettricità da solare termodinamico</td>
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<tr>
<td>GEOTH</td>
<td>* sistemi geotermici avanzati</td>
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<td>* fonte eolica</td>
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<td>BIOMASS</td>
<td>* biomasse</td>
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<tr>
<td>CPV</td>
<td>* fotovoltaico a concentrazione</td>
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<tr>
<td>PV</td>
<td>* fotovoltaico piano</td>
</tr>
</tbody>
</table>

ENERGY: Italian Participation in H2020 RICCARDO BASOSI
Energy Efficiency

Types of action

- **Research & innovation**
  - Actions that establish new knowledge or develop more energy-efficient technologies and solutions.
  - EU funding rate: 100%.

- **Innovation**
  - Actions that demonstrate the viability of new technologies and solutions or support their first deployment in the market.
  - EU funding rate: 70%.

- **Coordination & support**
  - Actions that improve skills, mobilise large-scale investments or facilitate EU policy implementation.
  - EU funding rate: 100%.

Funding areas

- Heating & Cooling
- Consumers
- Buildings
- Industry, Services & Products
- Innovative financing for Energy Efficiency
Smart Cities and Communities solutions integrating energy, transport, ICT sectors through lighthouse (large scale demonstration - first of the kind) project

- integrated innovative solutions
- “lighthouse project” approach: leader cities develop and test integrated innovative solutions at large scale. Follower cities commit to the replication at the end of the project
- Each lighthouse city shall
  - i) include a "nearly zero energy buildings" district (new or retrofitted) which incorporates RES,
  - ii) deploy a fleet of alternatively fuelled cars,
  - iii) deploy ICT tools for integration and
  - iv) explore the alternative use of innovative nature based solutions
ENERGY: Italian Participation in H2020

RICCARDO BASOSI

10/11/2015
The SME Instrument

- Completely bottom-up – all areas of the Energy Challenge covered
- Only open to SMEs – also single-beneficiaries possible

3 phases of support (no need to start with phase 1)

1. Business innovation grants (feasibility studies, lump sum of EUR 50,000 per project);
2. Business innovation grants for innovation development & demonstration purposes (between EUR 0.5 – 2.5 million / project)
3. Free-of-charge business coaching, access to a wide range of innovation support services and facilitated access to risk finance to facilitate the commercial exploitation of the innovation.

✔ 4 submission deadlines per year for phase 1 and 2

✔ Budget for the Energy SME topic (SMEInst-09-2016-2017):
  ✔ 46 M€ in 2016
  ✔ 50 M€ in 2017
What is the breakdown by country for the SME instrument?

Applications to the Horizon 2020 SME instrument per EU Member State

SMEs in EU Member States made 4,694 applications to the Horizon 2020 SME instrument. Most of the applications came from the five biggest Member States: Italy, Spain, the United Kingdom, Germany and France.
Which Member States had the highest rate of applications to the SME Instrument?

Number of eligible applications per capita to the Horizon 2020 SME Instrument

Horizon 2020 introduced a new funding instrument specifically designed for innovative SMEs. The attractiveness of the instrument to many of the smaller Member States proves its accessibility. The data presented here is the number of applications per million inhabitants. The EU average is 9.26.
Strumento PMI «Energia» 2014/15 – Italia Coordinatori IT

<table>
<thead>
<tr>
<th></th>
<th>Proposte presentate IT</th>
<th>Proposte oltre la soglia IT</th>
<th>Proposte finanziate IT</th>
<th>Tasso di successo IT</th>
<th>Tasso di successo medio UE</th>
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Strumento PMI « Energia » 2014/15
Numero di partecipanti per regione IT

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<thead>
<tr>
<th>Fase 1 (finanziati 24)</th>
<th>Fase 2 (finanziati 2)</th>
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<tr>
<td>• Lazio, 6</td>
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<td>• Lombardia, 5</td>
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<td>• Toscana, 3</td>
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<td>• Piemonte, Emilia Romagna e Calabria, 2</td>
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<td>• Liguria, Trentino-AA, Puglia, Sardegna, 1</td>
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<tr>
<th>Fase 1 (non finanziati sopra soglia 3)</th>
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<td>• Piemonte, 2</td>
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<td></td>
<td>• Veneto, Trentino-AA e Lazio, 1</td>
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</tbody>
</table>
Cohesion policy: 11 Thematic Objectives to deliver Europe 2020

• Strengthening research, technological development and innovation
• Enhancing access to, and use and quality of, information and communication technologies
• Enhancing the competitiveness of small and medium-sized enterprises, the agricultural sector (for the EAFRD) and the fisheries and aquaculture sector (for the EMFF)
• **Supporting the shift towards a low-carbon economy in all sectors**
• Promoting climate change adaptation, risk prevention and management
• Protecting the environment and promoting resource efficiency
• Promoting sustainable transport and removing bottlenecks in key network infrastructures
• Promoting employment and supporting labour mobility
• Promoting social inclusion and combating poverty
• Investing in education, skills and lifelong learning
• Enhancing institutional capacity and an efficient public administration
Future Cohesion Policy: less budget!
(eligibility simulation)

GDP/capita*  
< 75% of EU average  
75-90%  
> 90%

*index EU27=100

European Council:
€ 325 billion for 7 years:

3 categories of regions

Less developed regions
€ 164.3 bn + € 66.4 bn CF

Transition regions
€ 31.6 bn

More developed regions
€ 49.5 bn

Regional GDP figures: 2006-07-08
GNI figures: 2007-08-09
© EuroGeographics Association for the administrative regions of the European Union

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Suggestions for a successful participation

Read carefully the calls (a good proposal needs time and evolution):

- Technical content / scope
- Special features
- Expected (and convincing) impact
- Funding scheme
- Verify TRL level
- Input from real partners
If you find « your call »

• Select partners on the basis of quality and useful contribution to the project → synergy among enterprises and university/research centers

• Don’t wait: networks should be set up ASAP, then it could be too late

• Read carefully evaluation standards and instructions for referees

• Get the project idea, and then the proposal, to be read in good advance by someone who has succeeded in the same programme
If you don’t find « your call »

• other sections of Horizon 2020

• input for next calls through
  • Technological platforms
  • National Representatives and experts
  • Workshops organization/position Papers
  • Meetings to strengthen collaborations with groups from other Countries (i.e Sectorial Meetings)
  • National and European Info Day, regional meetings regionali
  • Experts for project evaluations

National contact points (NCP)@ APRE

borriello@apre.it    mazzon@apre.it
Grazie per l’attenzione!