



## **MILESECURE-2050**

Multidimensional Impact of the  
Low-carbon European Strategy of Energy Security,  
and Socio-Economic Dimension up to 2050 perspective  
SSH.2012.2.2-2 - G.A. 320169

## **Programme**



# **EUROPEAN SOCIETIES FACING ENERGY TRANSITION**

The challenge of the human factor  
and energy security, up to 2050

*Rome, February 17-18, 2015*

**ENEA Headquarters** - Via Giulio Romano, 41



The project has received funding from the European Union's Seventh Framework Programme for research, technological development and demonstration under Grant Agreement No. 320169



# PROGRAMME

## TUESDAY, FEBRUARY 17<sup>th</sup>, 2015

### PROGRAMME

#### INTERNATIONAL SEMINAR

**First Session** - The human factor in energy transition  
 Tuesday, February 17<sup>th</sup>, 2015, 9.00 - 13.00

**Second Session** - Models and scenarios towards 2050 perspective  
 Tuesday, February 17<sup>th</sup>, 2015, 14.00 - 17.30

#### REGIONAL WORKSHOP

**Opening Session** - MILESECURE-2050 project  
 Wednesday, February 18<sup>th</sup>, 2015, 9.00 - 10.15

**Round Table** - The challenge of a low-carbon and secure energy transition:  
 from local to global  
 Wednesday, February 18<sup>th</sup>, 2015, 10.30 - 13.00

In order to face the challenges of climate change and energy security, Europe needs to rediscuss and renew its ways of producing and consuming energy. Reduced emissions, increased use of renewable energy and energy saving are the key environmental objectives that Europe has embedded in its strategy for 2020 and beyond. However, to launch a process of energy transition we need to take the multidimensional nature of this phenomenon into account. Changing energy systems has social, cultural, economic, political, geopolitical, and lifestyle implications and thus energy transition is not confined to the study of technical change, since it also involves deep social change. It is in this context that we talk of the passage towards a low-carbon society, and this is the background to the International seminar and to the Regional Workshop, both titled **“EUROPEAN SOCIETIES FACING ENERGY TRANSITION. The challenge of the human factor and energy security, up to 2050”**.

Both the initiatives will be devoted to the intermediate results of the MILESECURE-2050 project, funded under the Seventh Framework Programme of the European Commission and carried out by a multidisciplinary consortium composed of universities and research institutes of eight European countries. MILESECURE-2050 was launched to analyse the conditions that make transition towards a low-carbon society possible and to provide forecasts on the changes in energy systems in Europe over the next 30 years.

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8.30 – Registration

#### INTERNATIONAL SEMINAR

##### Opening Session

9.00 - 10.00

##### Chair and welcome address

Cristina CORAZZA, Sub-Commissioner ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy

##### Introductory speech

Patrizia LOMBARDI, Coordinator of MILESECURE-2050 project, POLITO Politecnico di Torino, Italy

##### Speech

Domenico ROSSETTI DI VALDALBERO, Scientific officer, European Commission, DG RTD

The seminar will focus on two key issues of MILESECURE-2050: understanding the role of the human factor in the process of energy transition, and studying the relationship between transition and energy security.

20 experts from different European countries will speak at the seminar, which will be of interest to the scientific community, energy field experts, policy makers and representatives from civil society.

The seminar will be organized in an **Opening Session** followed by two separate thematic sessions.



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## INTERNATIONAL SEMINAR

### First Session - The human factor in energy transition

10.00

#### Chairperson

Wiebe BIJKER, *MUSTS - Maastricht University, Netherlands*

#### Communication

Giovanni CAIATI, *LSC - Laboratorio di Scienze della Cittadinanza, Italy* and  
Eric BICHARD, *USAL - Salford University, UK*

10.35 - 10.50 - Coffee Break

#### Interventions

Stephen CURWELL, *Heys Environmental Consultants Ltd, UK*

Max GRUNIG, *ECOLOGIC - Ecologic Institute, Germany*

Jo HAMILTON, *Oxford University, UK*

Pierre LACONTE, *FFUE - Foundation for the Urban Environment, Belgium*

Ricardo GARCIA MIRA, *Universidade da Coruna, Spain*

Walter WEHRMEYER, *University of Surrey, UK*

#### Discussion

13.00 - 14.00 - Buffet Lunch



The **First Session** will be devoted to the role of the human factor in the energy transition, presenting the results from the first part of the project. These results are based on a broad set of research actions, such as the study of the main trends and policies related to the international and European context; the analysis of more than 90 local anticipatory experiences of low carbon society; and the realization of expert interviews and focus groups. One of the results of the research was to illuminate a rise of the human factor that, in the transition context, tends to assume a leading role in changing energy systems.

The session will address:

- the implementation of the theory of "Human Energy", i.e. a theory formulated to keep the technological, the social and the personal perspectives in the study of the energy systems in transition within one single framework;
- the deep changes connected with energy transition at the social and personal levels;
- the condition of socio-cultural stress associated with these changes;
- the needs of localisation and ownership of the means of energy production;
- the self-regulation of society in transition that takes place through social activities such as communication, negotiation and direct participation of citizens;
- the increased resort to muscular strength and the use of the body aimed at energy saving;
- the spreading of energy literacy;
- the identification of barriers and facilitating factors of the energy transition, and the dangers and risks it entails.

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## INTERNATIONAL SEMINAR

### Second Session - Models and scenarios towards 2050 perspective

14.00

#### Chairperson

Oscar AMERIGHI, *ENEA - Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Italy*

#### Communication

Jean Charles HOURCADE, *SMASH - Societ  de Math matiques Appliqu es et de Sciences Humaines, CNRS, France* and

Zygmunt PARCZEWSKI, *IEN - Instytut Energetyki, Poland*

#### Interventions

Sergio GIACCARIA, *European Commission, JRC - Joint Research Centre, IET - Institute for Energy and Transport*

Andrea RICCI, *ISIS - Istituto di Studi per l'Integrazione dei Sistemi, Italy*

Charlie WILSON, *Tyndall Center, UK*

16.00 - 16.15 - Coffee Break

#### Discussion

17.15

#### Conclusion

Patrizia LOMBARDI, *Coordinator of MILESECURE-2050 project, POLITO - Politecnico di Torino, Italy*



The **Second Session** will be devoted to the discussion of energy models and scenarios to 2050 that the project is developing and which will be completed at the end of 2015. One of the challenges for MILESECURE-2050 is to produce tools to forecast the conditions under which it is possible to combine transition toward a low-carbon society with energy security. A distinctive features of the models developed in MILESECURE-2050 draws scenarios based on facts such as those evidenced by anticipatory experiences, rather than based only on assumptions arising from current trends. Furthermore the project combines knowledge from different disciplines (economics, sociology, psychology, urban planning, political science) in a single tool. Second Session will therefore address:

- the measurement of social factors critical for the energy transition (SMET model) across Europe and in 3 countries representative of 3 European regions;
- the revision and extension of current models (in particular, IMACLIM-R) with new parameters and variables connected with research results;
- the methodological consequences of the exercises mentioned above;
- the interdisciplinary context as a horizon of research on energy transition;
- the comparison of the models developed in MILESECURE-2050 with those developed in other contexts;
- the mapping of risks and danger for energy systems in transition.

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# PROGRAMME

## WEDNESDAY, FEBRUARY 18<sup>th</sup>, 2015

### REGIONAL WORKSHOP

#### Opening Session - MILESECURE-2050 project

9.00

##### Chairperson

Jacopo TONIOLO, MILESECURE-2050 project, POLITO Politecnico di Torino, Italy

##### Introductory Speech

Gabriele QUINTI, LSC - Laboratorio di Scienze della Cittadinanza, Italy

##### Anticipatory Experiences

Renzo MACELLONI, Mayor, Peccioli Municipality (PI), Italy

10.15 - 10.30 - Coffee Break



This initiative is the second of a sequence of four Regional Work -shop (the first one was held in Berlin; the third and the fourth will be held in Krakow and in Manchester).

These workshops are devoted to the dissemination of the intermediate results of the MILESECURE-2050 project to local stakeholders such as policy makers (at the national and local levels), civil society organisations and representatives of the "energy community".

This Regional Workshop will be organized as an **Opening Session** and a Round Table.

The Opening Session will be devoted to a presentation of the main MILESECURE-2050 findings, specifically those related to the role of the human factor in energy transition. Concrete local experiences will be also sketched.

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### REGIONAL WORKSHOP

#### Round Table - The challenges of a low-carbon and secure energy transition: from local to global

10.30 - 13.00

##### Moderator

Diego GAVAGNIN, Professional Fellow, WEC Italia, Italy

##### Participants

Andrea ANDREUZZI, Politiche Industriali, Settore Energia, Confindustria, Italy

Claudio BAFFIONI, Responsible, Osservatorio Ambientale sui Cambiamenti Climatici, Dipartimento Tutela Ambiente, Protezione Civile, Roma Capitale, Italy

Marcello CAPRA, National Delegate, SET-PLAN

Marco CORRADI, President, ACER - Azienda Casa Emilia Romagna - Reggio Emilia, Coordinator ACER Regione Emilia Romagna, Italy

Gaetano FASANO, Unità Tecnica Efficienza Energetica - Riqualificazione Energetica degli Edifici, ENEA, Italy

Rosanna FUSCO, Executive, Health, Safety, Environment & Quality, ENI, Italy

Luigi GABRIELE, Affari Istituzionali e Regolatori, Codici - Associazione Consumatori, Italy

Michele MACALUSO, President, RENAEL - Rete Nazionale delle Agenzie Energetiche Locali, Italy

Giovanni PERRELLA, Segreteria Tecnica, Ministero dello Sviluppo Economico, Italy

Edoardo ZANCHINI, Vice President, Legambiente, Italy

Roberto ZOCCHI, Senior Manager, ACEA, Italy

ENEL Representative

##### Discussion

##### Conclusion

*The working language of this day will be Italian*



The **Round Table** will be organized as a multi-stakeholder dialogue and will discuss these results as illustrations of ways in which they can contribute to an improved management of energy systems. The discussion will offer suggestions on how to address the last phase of the project to effectively influence national and local energy policies.



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**POLITECNICO  
DI TORINO**



**Maastricht University**



**UNIVERSITY  
of SALZBURG**

University of  
**Salford**  
MANCHESTER



**LSC** Laboratory of  
Citizenship  
Sciences



Italian National Agency for New Technologies,  
Energy and Sustainable Economic Development



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**EU low carbon & energy security**

**Project MILESECURE-2050** - <http://www.milesecure2050.eu/>

#### **For registration:**

[http://eventi.enea.it/index.php?option=com\\_seminar&Itemid=2&lang=it](http://eventi.enea.it/index.php?option=com_seminar&Itemid=2&lang=it)

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