



**SoES**  
Security of Energy Systems

## International Workshop

17 July 2014

RSE Ricerca Sistema Energetico

Via Rubattino, 54 – Milan (Italy)

## Security of Energy Systems

SoES is a European project designed to answer to the pressing demand of knowledge and best practices on the cyber security aspects in the Energy Smart Grids. It is conceived to raise the know-how of government bodies and sector operators by providing a comprehensive analysis of ICT architectures, vulnerabilities, interdependencies, standards and best practices related to the Smart Grids.

The project started in September 2012 and will end in August 2014. According to the project schedule the final SoES International Workshop is aimed at presenting and discussing the following topics:

- ICT architectures of emerging control functions in medium and low voltage distribution grids
- Associated vulnerabilities, threats and security measures
- Support from standards and policies.

The participation to the Workshop is free of charge and open to all interested representatives. For organization reasons, **please register before June 20th, 2014** by sending your registration form to [soes-info@rse-web.it](mailto:soes-info@rse-web.it).

The SoES project has been funded with the support from the European Commission under the CIPS Programme. This workshop reflects the views only of the consortium, and the European Commission cannot be held responsible for any use which may be made of the information presented therein.





## Project objectives

SoES aims at facing the ICT security demand of Energy Smart Grids on a three-dimensional plan: technical plan, policy plan, inter-national / inter-organizational plan. The following specific objectives have been identified:

- (a) The identification of vulnerabilities, threats and countermeasures relevant for the Smart Grid architectures
- (b) The creation of a comprehensive knowledge base grouping together reference architectures, international standards, vulnerabilities and countermeasures of the Smart Grids
- (c) The definition of ICT security best practices for Energy Smart Grids
- (d) The establishment among the existing working groups on Smart Grids, of an information sharing platform, named *Hub for Smart Grid Cyber Security (H4SGCS)*, to improve the security know-how of Smart Grid actors.

Results of the projects are made available through the publication of four deliverables:

- (1) *Energy Smart Grid Reference Architectures;*
- (2) *International Standards and Policies - Map and analysis;*
- (3) *ICT Vulnerabilities, Threats and Countermeasures in Energy Smart Grids;*
- (4) *ICT Security in Energy Smart Grids Best Practices.*

## Project Partners

**RSE**, a no-profit company carrying out applied research in the electro-energetic sector



**GCSEC**, a no-profit foundation dealing with international policy & cooperation, education & training, research and development in cyber security



**ENEL Servizi Srl** - provides IT & IT help desk, R&D, education & training, administration & insurance, factoring & real estate services to the ENEL Group



**EFACEC**, a vendor of SCADA/EMS/DMS systems, also active in the areas of Substation Automation and Protection for Transmission and Distribution Grids, Distribution Automation and Smart Metering



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## Preliminary Agenda

8.30 – 9.00	Registration
9.00 – 9.30	Welcome and <b>SoES Project Overview - RSE</b>
9.30 – 10.30	<b>Security Standards for Smart Grids - State of the art</b>
9.30 – 10.00	Security Governance – <b>GCSEC</b>
10.00 – 10.30	Technical Security – <b>ENEL</b>
10.30 – 13.00	<b>Use case Security Analysis</b>
10.30.- 11.00	Voltage Control in MV grids with high DER penetration - <b>RSE</b>
11.00 – 11.30	Coffee Break
11.30 – 13.00	<b>Use case Security Analysis (cont.)</b>
11.30 – 12.00	Photovoltaic Generation and Storage Control - <b>GCSEC</b>
12.00 – 12.30	Load Reduction Programs supported by ADA through AMI - <b>ENEL</b>
12.30 – 13.00	Smart Meter Configuration - <b>EFACEC</b>
13.00 – 14.30	Lunch Break
14.30 – 15.30	<b>Lab Demo</b> – Application of Security Standards (IEC 62351-3) to Voltage Control Communications (IEC 61850) - <b>RSE</b>
15.30 – 16.30	<b>Best Practices for Smart Grid Security</b>
15.30 – 16.00	Best Practices - <b>ENEL</b>
16.00 – 16.30	Smart Grid European Policies - <b>RSE</b>
16.30 – 17.00	<b>Plenary discussion &amp; Wrap-up</b>





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## How to reach us



## Workshop address:

**RSE S.p.A.**  
**Via R. Rubattino 54**  
**Milan**

### Contacts

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**RSE** is located in the East side of Milan, close to East Ring Motorway and Linate airport.

**From Milano Linate Airport** -> Take a taxi (about 10 minutes travel)

**From Milano Malpensa Airport** -> Take the Malpensa Express Train from Terminal 1 to Milano (CADORNA FNM/CENTRALE FS) (every 30 minutes) <http://www.malpensaexpress.it/>

**From Orio al Serio Airport** -> Take the shuttle bus to CENTRALE FS station

**From railway stations (CADORNA FNM, CENTRALE FS, GARIBALDI FS)** -> Take the Metro line M2 (green line) - direction GESSATE or COLOGNO North). Get off at LAMBRATE FS

**From Lambrate FS** -> Take the **bus # 39** to Redecasio (Bottini square), or the **bus # 924** to Segrate (from Piazza Monte Titano). Bus stop "Tangenziale Est".

If you arrive to **Milan by car** -> East Ring Motorway, exit 7 "RUBATTINO". RSE is on your right going down the ramp. The park area is on the opposite side along Rubattino road.

Further information on how to reach RSE headquarters → <http://www.rse-web.it/sedi.page?resId=6>

Accommodation close to RSE headquartes → <http://www.rse-web.it/sedi.page?docId=6534&resId=6>



**SoES – Security of Energy Systems**

**International Workshop**

**Thursday, 17 July 2014**

**RSE Spa Via Rubattino, 54 - Milan - Italy**

Title: \_\_\_\_\_ First Name: \_\_\_\_\_ Last Name: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Participant Position: \_\_\_\_\_

Participant main job functions: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City: \_\_\_\_\_ Zip: \_\_\_\_\_ Country: \_\_\_\_\_

Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

Email: \_\_\_\_\_

How did you find out about this workshop? (Check all that apply)

- \_\_\_ SoES Web Site
- \_\_\_ E-mail from the Project Coordinator
- \_\_\_ E-mail from a Project Partner
- \_\_\_ Friend/Colleague
- \_\_\_ Online search
- \_\_\_ Other \_\_\_\_\_

Signature: \_\_\_\_\_

Please fill out and send the present form to [soes-info@rse-web.it](mailto:soes-info@rse-web.it)

