

# IEA Smart Energy Systems Roadmap

## Scaling up Smart Energy Systems

1<sup>st</sup> March 2016, Paris  
(IEA, Room 1, 9 rue de la Federation)  
09h30-17h30

The IEA Technology Roadmaps Programme aims to build an international consensus on the status, potential and barriers to deployment of key energy technologies necessary to achieve secure, economically and environmentally sustainable energy systems. Founded by the G8 countries in 2008, a new roadmap series is now being launched by the IEA targeted towards accelerating local implementation of energy technologies and priority short-term actions. Within this context, the first technology focus in this series has been selected as 'Smart Energy Systems'. The IEA previously published a [Smart Grids](#) roadmap in early 2011, and tracks smart grid deployment in its annual Tracking Clean Energy Progress ([TCEP](#)) publication. Given the substantial deployment and the regulatory, policy and market changes in recent years, IEA member countries have requested a new roadmap on Smart Grids, expanded to include linkages with sectors beyond electricity (heat, electric mobility); and with a closer look at the role of big data, end consumers and emerging business models. The new roadmap will aim to provide a globally recognized, consensus view of current and future smart transmission, distribution and end-use technology development and deployment across different world regions.

The purpose of this initial workshop is for international stakeholders from industry, government, research and academia to provide guidance on the fundamental challenges ahead for accelerating the deployment of smart energy systems at the scale and speed necessary to reach long-term sustainable energy policy goals. It will identify key priority areas in smart grid technology, uncertainties and knowledge gaps; advance a medium- and long-term vision for technology deployment; and bringing to the attention of the international community regulatory, policy or technical barriers that need to be addressed to scale up the technology.

### Introduction

#### Workshop overview and purpose

**09h30 IEA Welcome**  
Laszlo Varro

Chief Economist, IEA

**Smart Energy Systems roadmap**  
Luis Munuera

Smart grids lead, Energy  
Technology Policy  
Division, IEA

### Session I: Current status of smart energy systems

#### State of play – emerging trends, new market areas

**09h45 Peter Van Den Heede**

Marketing & Business  
Development Manager Smart Grids  
CEU, ABB

**Michael Hübner**

Senior Expert, Austrian Ministry of  
Transport, Innovation and

Emerging trends over  
the past five years, key  
growth market areas,  
leading performers.

		Technology, <b>Department of Energy- and Environmental Technologies</b> / Vice chair <b>ISGAN</b> / Coordinator ERA-Net Smart Grids Plus (European Joint Programming Initiative)
	<b>Xavier Moreau</b>	Director, Strategic Marketing, Utility Segment, <b>Schneider Electric</b>
<b>10h30</b>	<b>Discussion</b> <b>Moderator: Russell Conklin</b>	Vice chair International Smart Grids Action Network, Office of International Affairs <b>U.S. Department of Energy (DoE)</b>

### 11h15 Break

## Session II: Technology frontier for smart energy systems

### Defining a future vision for smart energy systems

<b>11h30</b>	<b>Regis Hourdouillie</b>	Global Head of smart grid, <b>Ericsson</b>	Technologies to enable future markets: fundamental innovations in the pipeline, lessons learned from demonstration projects and large-scale deployments.
	<b>Rodolphe de Beaufort</b>	Smart Grid Marketing Director, <b>GE</b> grid solutions	
	<b>Marina Lombardi</b>	Head of Unit – Solution Development Center New Technologies and Innovation projects, <b>ENEL</b>	
<b>12h15</b>	<b>Discussion</b> <b>Moderator: Michele de Nigris</b>	Chair, <b>ISGAN</b> Director, Dpt Sustainable Development and Energy Sources RSE	
<b>13h00</b>	<b>Lunch</b>		

## Session III: Getting smart energy systems to scale

### Technology barriers, supply chain issues, standards, interoperability

<b>14h00</b>	<b>Javier Arriola</b>	Director for technology and automation, Star project Director, <b>Iberdrola</b>	Concrete technical barriers, value chain bottlenecks, standardisation/ interoperability constraints that need to be addressed.
	<b>Axel Strang</b>	Industrial Strategy Project Manager, <b>ERDF</b>	
	<b>Richard Schomberg</b>	Chairman of IEC System Committee on Smart Energy, <b>EDF/IEC</b>	
<b>14h45</b>	<b>Discussion</b> <b>Moderator: Rick Truscott</b>	Senior Director Power Systems, <b>China Light and Power</b>	
<b>15h30</b>	<b>Break</b>		

## Session IV: Policy, regulation and emerging business models

15h45	<b>Alicia Carrasco</b>	Regulatory Affairs Director EMEA, <b>Siemens</b>	Key remaining regulatory issues and what main emerging areas of value creation need immediate attention from regulators and policy-makers.
	<b>Karin Widegren</b>	Adviser to the Director General, <b>Swedish Energy Markets Inspectorate</b> , vice chair ISGAN	
	<b>Sarah Keay-Bright</b>	Senior Associate, Regional Coordinator, <b>RAP</b>	
16h30	<b>Discussion</b> <b>Moderator: Russell Conklin</b>	Vice chair International Smart Grids Action Network, Office of International Affairs <b>U.S. Department of Energy (DoE)</b>	

## Concluding remarks

17h15	<b>Concluding remarks</b> <b>Luis Munuera</b>	Smart grids lead, Energy Technology Policy Division, <b>IEA</b>
17h30	<b>Meeting ending</b>	

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