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**IEA Implementing Agreement on
Electricity Networks Analysis, Research & Development
(ENARD)**

**Annex I Workshop on Communications & Control,
to be held Visby, Gotland, Sweden,
Tuesday 5th-Wednesday 6th May 2009.**

1. Introduction

ENARD is the International Energy Agency (IEA) Implementing Agreement on Electricity Networks Analysis, Research & Development. It provides an international forum for information exchange, research, analysis and collaborative research and development across a range of electricity transmission and distribution (T&D) network issues. Its vision is to facilitate the uptake of new operating procedures, architectures, methodologies and technologies in electricity T&D networks, such as to enhance their overall performance in relation to the developing challenges of network renewal, renewables integration and network resilience. Further information on ENARD and its activities may be obtained from the ENARD web-site at www.iea-enard.org.

ENARD's Annex I work programme is concerned with the structured collation, analysis and dissemination of a range of T&D related information and data, whilst also serving as the essential mechanism, to help define and structure future activities. The definition of such future activities is addressed via the organization and delivery of a series of topical experts' meetings and workshops, including the forthcoming workshop on Communications & Control, to be held in Visby, on the island of Gotland, Sweden.

The Gotland Annex I Workshop will, in particular, stimulate discussion on the subject of power and information flows in a whole utility environment and assess the communications and control requirements in a range of evolving T&D network operational environments. The workshop will aim to establish the current status of communications and control technologies and systems and identify challenges and barriers, to be addressed. The requirements for future actions and initiatives will be identified and these will be encapsulated, in terms of messages for policy makers.

2. Programme

Tuesday 5th May 2009	
08:30	Registration
09:00	Welcome & introductory remarks – Stig Goethe, Chair of ENARD Implementing Agreement and President of Power Circle, Sweden
Introduction to ENARD and the Present Workshop	
09:15	ENARD, the IEA Implementing Agreement on Electricity Networks Analysis, Research and Development and the present workshop - John Baker, Operating Agent, ENARD Annex I

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Keynote Address	
09:30	Integration of Renewables, do we need a European SuperGrid? – Gunnar Lundberg, Vice President Regulatory Affairs, Vattenfall, Sweden
Session 1: ICT Infrastructures, Architectures & Sensor Requirements	
10:00	Interoperability Issues for Communications and Control in the SmartGrid ICT Context – Ron Ambrosio, IBM Global Research Leader, Chairman of US DOE GridWise Architecture Council, United States
10:20	The ENEL Smart Meter Experience and the ADDRESS project – Paola Petroni/Marina Lombardi, ENEL, Italy
10:40	Q&A
10:50	Coffee
Session 2: Emergency Communications	
11:20	Emergency Communications in the UK - Adrian Grilli, Joint Radio Company (JRC), United Kingdom
11:40	Emergency Communications under Extreme Conditions:- customer expectations, lessons learnt and the consequences of the Swedish storms, 2005 and 2007 – Anders Richert, Swedish Energy Association
12:00	Q&A
Session 3: Morning Panel Discussion	
12:10	Panel Discussion
12:30	Lunch
Session 4: Application in Practice	
13:30	Results from the Danish Cell Controller Pilot Project - Stig Holm Soerensen, Energinet.dk, Denmark
13:50	Power Utility Communications in the State of Queensland – Aidan Roberts, Energex, Australia
14:10	Q&A
14:20	Tests & Results in applying IEC61850-7-420 to a Danish CHP Plant - Claus Amtrup Andersen, EURISCO, Denmark
14:40	Smart Metering/Load Control – the Spanish Experience – Juan Manuel Galán Sanjuan, Director of Metering Technology, Unión Fenosa, Spain
15:00	Q&A

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Session 5: Afternoon Panel Discussion	
15:10	Panel Discussion
15:30	Coffee
Session 6: Formation of Working Groups	
16:00	Introduction to aim and objectives of Working Groups - John Baker, Operating Agent, ENARD Annex I
16:15	Formation of Working Groups – election of facilitators
16:30	Close of Day One

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Wednesday 6th May 2009	
Session 7: Working Group Discussions	
08:30	Working Group discussions <ul style="list-style-type: none"> • ICT Architectures, Infrastructures & Technologies • Crisis Management & Emergency Communications • Smart customer communications/dynamic demand.
10:15	Coffee
10:45	Working Groups report <ul style="list-style-type: none"> • ICT Architectures, Infrastructures & Technologies • Crisis Management & Emergency Communications; • Smart customer communications/dynamic demand.
11:40	General Discussion
12:00	Workshop Overview and Implications – John Baker, Operating Agent, ENARD Annex I
12:15	Lunch and Close of Workshop

4. Outputs

The principal workshop outputs will include:-

- full discussion and debate of a range of pertinent issues in relation to Communications & Control;
- identification and evaluation of current “state-of-the-art”;
- identification of future R&D needs;
- recommendations for future actions and initiatives;
- key messages for policy makers.

J N Baker,
ENARD Annex I Operating Agent.
EA Technology.

10th February 2009.