



ENARD:- IEA Implementing Agreement on Electricity Networks Analysis, Research and Development

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ENARD ExCo Meets in Washington DC

ENARD's 5th Executive Committee (ExCo) meeting was hosted by US DOE in the impressive surroundings of the Ronald Reagan Building, Washington DC, 22nd-23rd September 2008. This represented the ExCo's first meeting outside of Europe and followed on from the United States joining the Implementing Agreement in April 2008. The 5th ExCo meeting addressed a range of important business and also welcomed observers from a number of countries, actively considering joining the Implementing Agreement. Highlights of the meeting included the adoption of Annex IV, on Transmission Systems (as described below), agreement on the further development of the Implementing Agreement, the initiation of the advance planning for the next two in the series of topical Annex I workshops and the adoption of the Year 3 Programme-of-Work, for the period October 2008 to September 2009.

discussion of the draft Annex text, at the 4th ExCo meeting, held Chester, UK, April 2008. Annex IV aims to develop a long term vision for transmission system developments and specifically, aims to address the principal barriers in place and to identify the most promising solutions and challenges in terms of expansion planning and market analysis, operational management and the introduction of new technologies. Annex IV will comprise two principal tasks, namely:-

- Task 1:- Transmission System Expansion and Market Analysis; and
- Task 2:- Transmission System Operational Management and Security Issues.

The Annex IV Operating Agent will be SINTEF Energy Research (Norway), supported by CESI Ricerca (Italy). It is anticipated that Annex IV will start work in earnest, early 2009.



ENARD is an International Energy Agency (IEA) Implementing Agreement which 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.

Publication of Annex I Workshop Profiles and Briefing Sheets

The 5th ExCo meeting in Washington DC also represented the completion of the first two years of ENARD's Annex I Work Programme, on Information Collation and Dissemination. A total of six topical workshops has been held in this time, with these helping to guide the development of the series of follow-on (R&D) Annexes initiated to date. Summary profiles from these workshops are now available for downloading from the ENARD web-site, complemented by the publication of a series of topical briefing sheets.

Following on from the formalities of the ExCo meeting itself, ExCo delegates were able to participate in the highly topical GridWeek Conference, held 22nd-25th September 2008. The conference represented the second in the series of GridWeek conferences, organised under the auspices of the DOE supported GridWise Alliance, which is a key facilitator in the delivery of US policy objectives in relation to the implementation of SmartGrid systems. ENARD Chair, Stig Goethe, delivered an address to the International Summit session, as an integral part of the conference. ExCo delegates were also pleased to witness Eric Lightner, from DOE and the US ExCo Alternate receive a SmartGrid award, in recognition of his considerable contribution to and leadership of the Federal Smart Grid Task Force.

Adoption of Annex IV "Transmission Systems"

The 5th ExCo meeting reached agreement on the adoption of Annex IV, in relation to Transmission Systems. This represents another significant milestone in ENARD's development and follows on from ENARD's Annex I workshop on transmission system issues, held Trondheim, Norway, September 2007 and





Ongoing Progress in Annexes II and III

As reported in the previous Newsletter, Annexes II and III commenced work April/May of this year, with Annex II, led by Arsenal Research, Austria, addressing "DG System Integration" and Annex III, led by EA Technology, UK, addressing "Infrastructure Asset Management". Progress on each of these Annexes was reported to the 5th ExCo meeting in Washington DC, with Annex III convening its 2nd Experts' Meeting at CESI Ricerca, Italy, September 2008. Annex II is to follow suit, with its 2nd Experts' Meeting to take place in London, UK, December 2008.

ENARD Contributes to the International Debate on the Crucial Importance of Electricity Networks

ENARD has played its full part in the ongoing debate about the future pivotal role of electricity networks, in the achievement of energy policy objectives. Particular highlights here have included ENARD's representation at the European Technology Platform SmartGrids 3rd General Assembly in Brussels, 8th-9th October, its contribution to the IEA's End Use Working Party (EUWP) Workshop on Long Term Technology Perspectives, held Berlin, 16th October, and its participation in the Renewable Energy Technology Deployment (RETD) Implementing Agreement workshop in Copenhagen, 22nd October.

Speaking at the EUWP Long Term Technology Perspectives Workshop in Berlin, John Baker, ENARD Annex I Operating Agent, highlighted the crucial role of electricity networks as key enablers in the delivery of energy policy objectives and the challenges to be addressed, both in accommodating a vastly different generating mix than ever envisaged, even 10 years ago, the emergence of a new generation of "prosumers" and the profound implications of such developments on investment and renewal strategies.

Annex I Workshop on "Communications and Control" and 6th ExCo Meeting, May 2009

The next in the series of ENARD's series of topical Annex I workshops will be on the subject of Communications and Control. It will be held on the island of Gotland, Sweden, May 2009, immediately ahead of the 6th ExCo meeting. Parties interested in participating in this workshop should contact the ENARD Secretariat.

Future Workshops

A further Annex I workshop, on the subject of "Balancing Technologies" is planned for October 2009 and will take place in Fredericia, Denmark.

The Washington DC ExCo meeting also reached agreement on the organisation of a major international workshop on network issues, to take place circa April/May 2010 and aimed at communicating key messages to policy makers.

Further information on these and other ENARD related activities will be covered in future editions of the Newsletter and on the ENARD web-site.

Membership and Participation

Twelve countries are presently participating in ENARD, as shown below.



It is anticipated that further growth will be seen in ENARD's membership and participation base in the coming months, with this to be announced on the ENARD web-site, as and when it occurs.

Further information

Further information on ENARD, including participation in the Implementing Agreement and its activities, may be obtained from the ENARD web-site, at www.iea-enard.org or from the ENARD Secretariat at EA Technology:-

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ENARD, also known as the IEA Implementing Agreement on Electricity Networks Analysis, Research and Development, functions within a framework created by the International Energy Agency (IEA). The views, findings and publications of ENARD do not necessarily represent the views or policies of the IEA Secretariat or of all its individual member countries.