



Rijksdienst voor Ondernemend
Nederland

Introduction to this workshop and the EGRD

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Chair IEA Experts' Group on
R&D priority setting





The group & previous work (1/3)

- Experts' Group on R&D Priority Setting & Evaluation
 - Part of the IEA Technology Network.
 - We organise 2 workshops/annum.
 - Our recommendations support the Committee on Energy Research and Technology (CERT), feed into IEA analysis, and enable a broad perspective of energy technology issues.
 - Work based on a 3 year program.





The group & previous work (2/3)

- The EGRD examines analytical approaches to energy technologies, policies and R&D. As such our recommendations can contribute to:
 - Theory: support of the methodology of priority setting & evaluation
 - “Test results”: discuss IEA work with the “practitioners in the field”: roadmaps (always together with IEA secretariat)
 - Cross-cutting: combine fields of expertise to speed up processes or determine blind spots.



The group & previous work (3/3)

Experts' Group on R&D
Priority Setting and Evaluation

Summary Report Evaluating R&D

9-10 November 2010
International Energy Agency



RD&D Needs for Energy System Climate Preparedness and Resilience

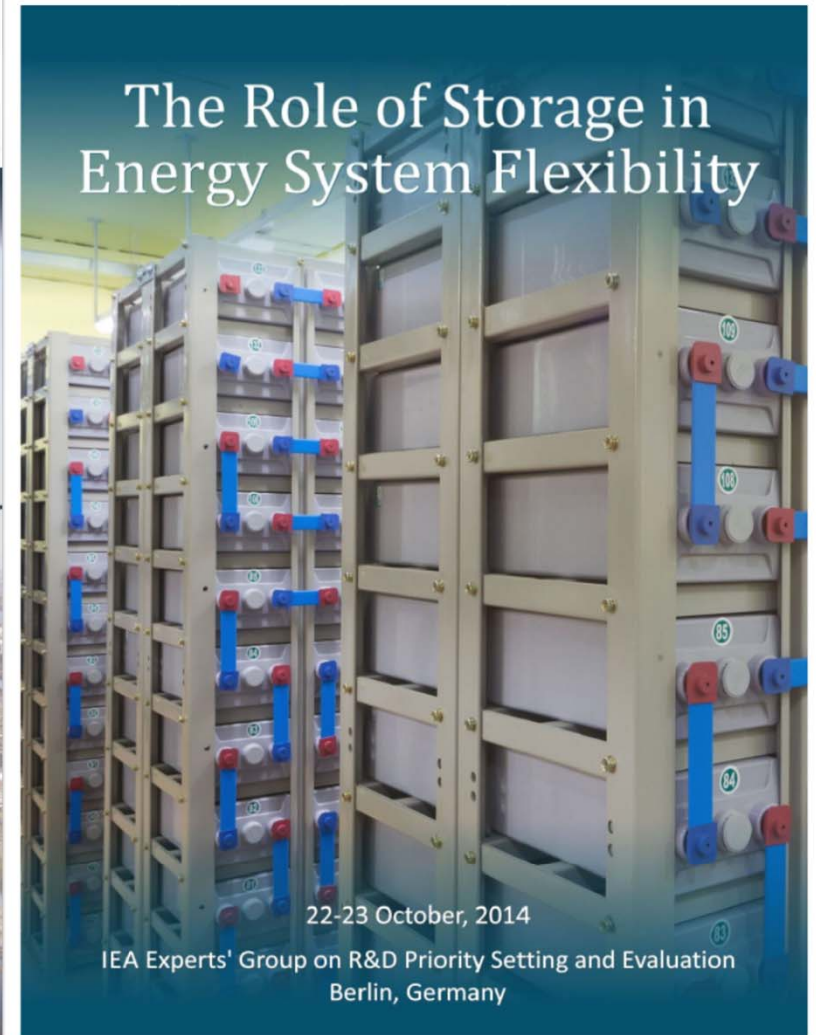
Workshop Summary



13-14 November 2013

IEA Experts' Group on R&D Priority Setting and Evaluation
Utrecht, The Netherlands

The Role of Storage in Energy System Flexibility



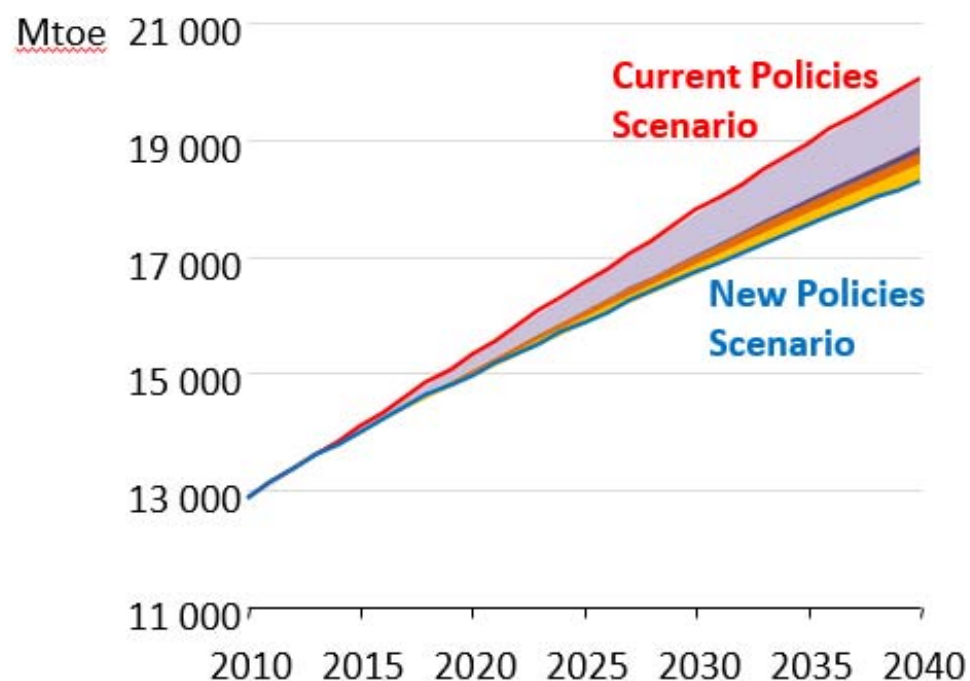
22-23 October, 2014

IEA Experts' Group on R&D Priority Setting and Evaluation
Berlin, Germany

Energy efficiency is crucial to moderate future energy demand growth

World
Energy
Outlook
2014

Factors contributing to global savings in primary energy demand in the New Policies Scenario relative to the Current Policies Scenario



Energy savings in 2040	
Efficiency in end-uses	62%
Efficiency in energy supply	7%
Fuel and technology switching	11%
Reduced energy service demand	21%
Total (Mtoe)	1 750

Global efficiency-related energy savings in 2040 are equivalent to about three-quarters of the EU's current energy demand



Rationale of the workshop: Island Energy – Status and Perspectives. Observations (1/3)

- Increasing technological options to balance the electricity net (both hardware & ICT)
- Increasing number of appliances, call for higher quality of energy
- Increasing production of renewable energy



Observations (2/3)

- Small island communities and remote, populated areas are vulnerable to impact of climate change
- despite significant renewable energy potential they often highly dependent on imported fossil fuels
- high electricity and energy costs,
 - vulnerability to oil price fluctuations,
 - supply interruptions
 - environmental degradation.



Observations (3/3)

- Over the years an increasing number of island and remote area communities are seeking the transition:
 - to a more sustainable energy system,
 - improved energy efficiency and renewable energy play an important role.



Key questions (1/2) to islands and remote, sparsely populated areas:

- How do they address the energy challenges – access to energy at affordable prices and with minimum impacts for the environment and climate?
- What are the similarities, major differences and lessons learned?
- Which technological solutions are available to address the energy challenges?



Key questions (2/2)

- Can these technological solutions be scaled up and used in densely populated areas and vice versa?
- What are the similarities and differences in technological solutions between islands, remote, sparsely populated areas and densely populated areas like cities?
- How do we include the end-user in the process?



This is how we work..

- We challenge you to answer & debate the questions in the rational during:
 - the presentations
 - the world café debate
 - the summery
- The results will be presented on the IEA website:
www.iea.org/aboutus/standinggroupsandcommittees/cert/egrdr/ (just google: IEA EGRD)



Q&A

The screenshot shows the IEA website header with the logo and tagline "Secure • Sustainable • Together". It includes a search bar, language options for Russian and Chinese, and social media icons for RSS, Twitter, Facebook, LinkedIn, YouTube, and Google+. The navigation menu lists "ABOUT US", "TOPICS", "COUNTRIES", "NEWSROOM & EVENTS", "PUBLICATIONS", and "STATISTICS". Below the menu, there are links for "Executive office", "FAQs", "Global engagement", "Glossary", "Jobs", "Training", and "Contact us". The breadcrumb trail reads "International Energy Agency > About us > Standing Groups and Committees > CERT > EGRD".

Experts' Group on R&D Priority Setting and Evaluation (EGRD)

The EGRD examines analytical approaches to energy technologies, policies, and R&D. The results and recommendations support the Committee on Energy Research and Technology (CERT), feed into IEA analysis, and enable a broad perspective of energy technology issues.

Workshops

- Island Energy - Status and Perspectives (2015)
- Will a Smarter Grid Lead to Smarter End Users - or Vice Versa (2015)
- The Role of Storage in Energy System Flexibility (2014)
- Modelling and Analyses in R&D Priority-Setting and Innovation (2014)
- R&D Needs for Energy System Climate Resilience and Resilience (2013)

Related content

- Free publications
- Workshops
- Affiliated groups
- FAQs on organisation and structure
- Technology Roadmaps