Introduction to Green Fuels

An event organized under the auspices of the
IEA Experts' Group on R&D Priority Setting and Evaluation (EGRD)
21-22 October 2019

Hosted by the International Energy Agency (IEA)
Paris, France

Dr. Birte Holst Jørgensen, Acting Chair of EGRD

EGRD an informal advisory body

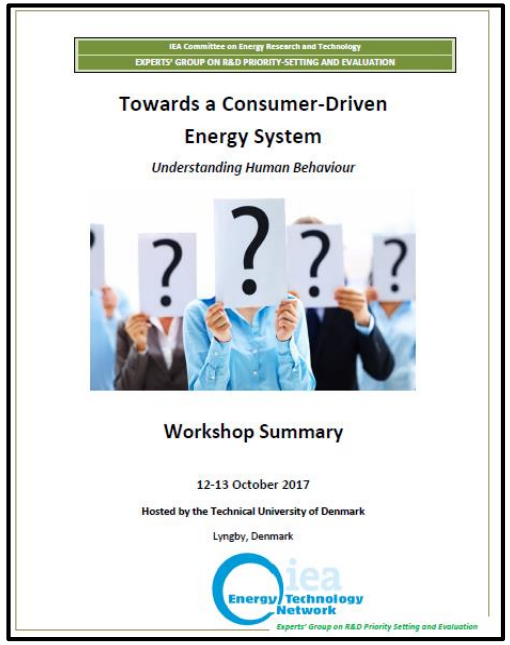
- In 1994, the Committee on Energy Research and Technology (CERT) established EGRD as an experts group to examine analytical approaches to energy technologies, policies, and R&D, and to promote dialogue and information exchange on methodologies and approaches related to:

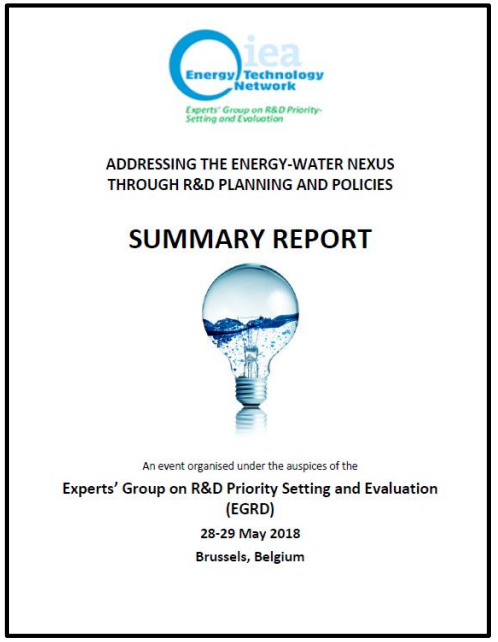
  – **Energy technology assessment**
  – **Energy R&D priority-setting**
  – **Evaluation and impact assessment of energy R&D**

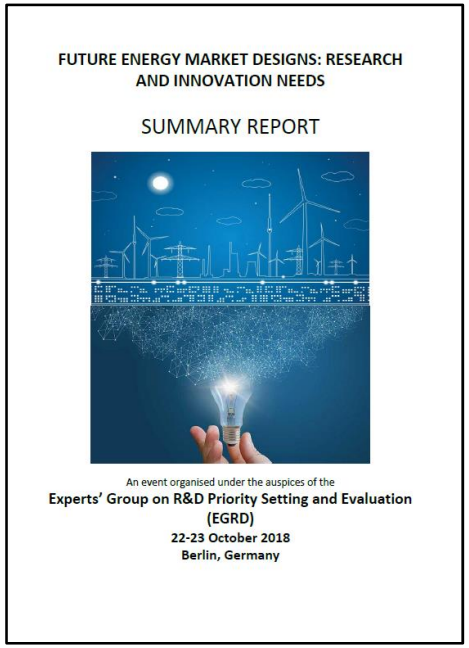
- The results and recommendations support the Committee on Energy Research and Technology (CERT), feed into IEA analysis, and enable a broad, cross-cutting perspective on energy technology issues.

Semi annual expert workshops











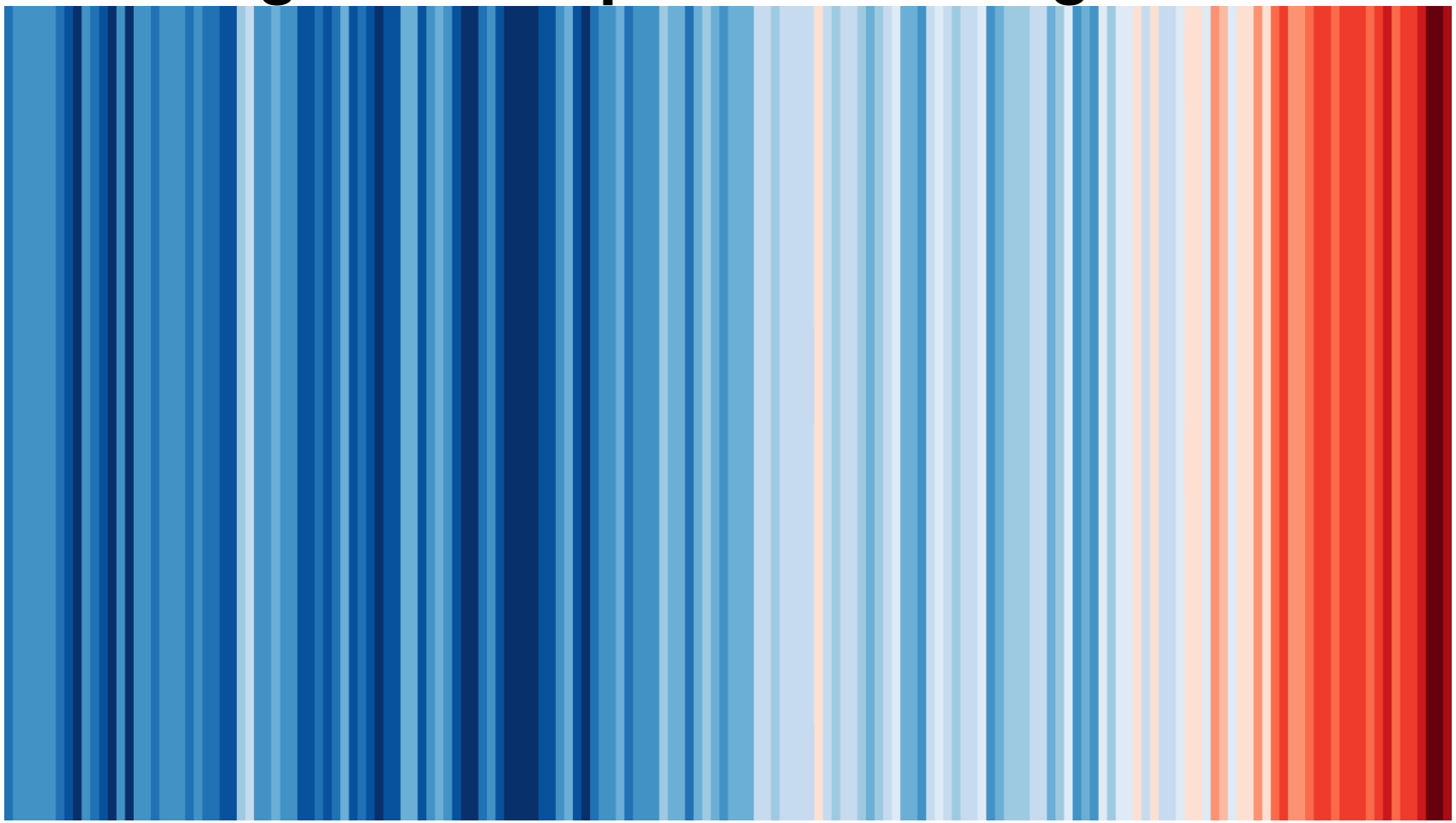
Summary reports available at:

http://www.iea.org/about/structure/cert/egrd/

http://www.ieadsm.org/egrd/


2 NO HUNGER
3 GOOD HEALTH
4 QUALITY EDUCATION
5 GENDER EQUALITY
7 CLEAN ENERGY
11 SUSTAINABLE CITIES AND COMMUNITIES
17 PARTNERSHIPS FOR THE GOALS

Annual global temperature change from 1850-2017



Ed Hawkins, National Centre for Atmospheric Science (NCAS), University of Reading
The colour scale represents the change in global temperatures covering 1.35˚ C



Accelerating the clean energy system



Source: McKinsey, Accelerating the energy transition: cost or opportunity? A thought starter for the Netherlands, 2016. https://https://www.mckinsey.com/featured-insights/europe/accelerating-the-energy-transition-cost-or-opportunity







High heat industrial processes


Alternative Fuel

Focus of the workshop

- What is the global outlook for **alternative fuels** in a low-carbon energy system?
- What is the **trade-off** between electrification of the energy system and the request for alternative fuels in sectors difficult to electrify?
- Do **power-to-x technologies** out-rule **biogas and –fuels** or vice versa?
- How does the use of Power-to-x technologies influence **the efficiency** of the energy system?
- What are the **technological challenges, risks and co-benefits** of alternative fuels?
- What are specific **advantages and disadvantages of different energy carriers** and which carrier is most adequate for which end use sector?
- How can **RD&D policies** accelerate affordable, effective and environmentally friendly alternative fuels?

Programme

- **Monday 21 October**
  - Welcome and introduction
  - Session 1: Setting the scene
  - Session 2: Power-to-X (gas and liquids)

- **Tuesday 22 October**
  - Session 3: Advanced biogas, bio-fuels incl. air and waterborne transportation
  - Final session: World Cafe – R&D needs and recommendations

Next generation climate action







16 young influencers invited to C40 Mayors Summit, Copenhagen 9-12 October 2019

