

Final report

1. Project details

Project title	IEA EGRD R&D Priority-setting and Evaluation
File no.	64017-0575
Name of the funding scheme	EUDP
Project managing company / institution	DTU
CVR number (central business register)	30060946
Project partners	DTU
Submission date	17 February 2021

2. Summary

The project has assured Danish participation and management of the IEA Expert Group on R&D Priority-setting and Evaluation (EGRD) and thereby contributed to create an international knowledge sharing platform for Danish actors regarding technology assessment, energy R&D priority setting and assessment of benefit from R&D. The EGRD organizes two workshops per year, but in 2020 these were replaced by one virtual conference in the spring and three webinars in the autumn due to the COVID-19 situation with travel and meeting restrictions. The Danish leadership of the Experts' Group has assured:

- Dialogue with Danish stakeholders, in particular the Danish Energy Authority/EUDP, Energinet and the energy sector on relevant topics to be included in the work programme and activities.
- Invitation to relevant Danish experts from authorities, research institutes and industry to give workshop presentations and participate in workshop discussions.
- Dissemination of the results and recommendations from the Group activities to relevant Danish stakeholders.

Projektet har sikret dansk deltagelse og ledelse af IEA ekspert gruppe vedr. F&U prioritering og evaluering (EGRD) og derved bidraget til at skabe en international videns platform for danske aktører vedr. teknologivurdering, R&D prioritering og vurdering af forskningsresultater. Arbejdet er struktureret omkring to årlige to dages workshops, som dog i 2020 blev konverteres til et virtuelt seminar i foråret og tre webinarer i efteråret pga. COVID-19 og rejse- og møde restriktioner. Den danske ledelse i EGRD har sikret:

- *Dialog med danske interessenter, især Energistyrelsen/EUDP, Energinet og energisektoren vedr. relevante emner der skal inkluderes i arbejdsprogrammet.*

- *Invitation til relevante danske eksperter fra myndigheder, forskningsinstitutioner og industri vedr indlæg og deltagelse i workshop.*
- *Formidling af resultater og anbefalinger fra gruppens arbejde til relevante danske interessenter*

3. Project objectives

The project supports the Danish participation in and management of IEA Expert Group on R&D Priority-setting and Evaluation (EGRD). Since its inception in 1994 the Experts' Group has served as a forum for collaboration and exchange of information on topics energy R&D trends in governments, strategic energy technology analysis, R&D priority-setting and impact assessment of R&D and outreach.

4. Project implementation

The project has evolved according to the work programme approved by IEA Committee of Research and Development but due to the COVID-19 situation in 2020, the project leader has adapted the two annual physical workshops to a total of 4 on-line seminars/webinars.

5. Project results

A total of 4 workshops, 1 virtual seminar and 3 webinars have been realised, fulfilling the CERT approved work programmes. Each EGRD event enables a broad perspective of timely, thematic issues of relevance for accelerating the clean energy transition. For each topic, members identify relevant national experts from government agencies, universities or research institutions who may contribute to the debate. Intergovernmental organisations, non-governmental organisations and the private sector are invited to contribute where relevant. Whereas attendance to workshops is by invitation only and limited to 30-40 participants, the webinars are public and have attracted many more, up to 300 participants. The following events have been concluded successfully in the project period:

The workshop "Addressing the energy-water nexus – through R&D planning and policies", Brussels, 28-29 May 2018, was hosted by the EU Commission,

The workshop "Future Energy Market *Designs: Research and Innovation Needs", Berlin, 22-23 October 2018, was hosted by Projektträger Jülich.

The workshop "Systems Resiliency and Flexibility", Vienna, 13-14 May 2019 i Wien, was hosted by the Austrian Ministry for Transport, Innovation and Technology.

The workshop "Green fuels", Paris, 21-22 October 2019, was hosted by the IEA secretariat.

The seminar "Energy communities", 23 April 2020, was originally planned as part of the Austria Innovation Week in Tirol, but was converted to a virtual seminar due to the pandemic.

The webinars 1) "Energy islands" and 2) "Power-to-x technologies and system integration", 29. September 2020, were hosted by the Danish Ministry of Climate, Energy and Utilities.

The webinar "Energy infrastructures: public acceptance", 24 November 2020, was hosted by the Swiss Federal Office of Energy.

The project leader has reported to CERT on the outcome of workshops/seminars, has had regular meetings with EGRD member countries and also prepared a new work programme 2020-2022 and formalised the election of chair and vice chairs, so that these elections are aligned with the work programme. The project leader is elected chair and as vice chairs are elected Johannes Tambornino, Germany, and Atsushi Kurosawa, Japan.

6. Utilisation of project results

The work is documented in executive summary reports and also presented to CERT delegates, at least once a year. The work also contributes to the analytical work of IEA on emerging topics of relevance for the energy transition.

Danish stakeholders get access to new knowledge and networks within highly relevant topics for the Danish energy sector, such as for example power-to-x, public acceptance and energy communities.

The Executive summary reports are all available here: <https://userstcp.org/iea-egrd>

7. Project conclusion and perspective

The workshops/webinars offer a professional platform for discussing emerging topics of importance to accelerate the clean energy transition, such as the role of human aspects, new market designs and nexus topics where EGRD has been a first mover in raising these discussions.

It has proven successful to prepare the content together with the hosting institution/member country, which also facilitates the dissemination and outreach.

Last but not least, the platform offers Danish stakeholders the possibility to present state-of-the art knowledge within their field and team up with other internationally leading actors.