

Engaging users with DestinE's energy research

Public Workshop, DestinE's 5th User
eXchange

09th June 2026, Brussels



DLR – German Aerospace Center, a member of the Helmholtz Association



Research Center
Project Sponsor
Space Agency

German Aerospace Center

- > 10 000 employees
- 54 institutes
- 34 locations
- Turnover ~1500 Mio €/a
- Foreign offices in Brussels, Paris, Tokyo and Washington



- Energy Research
- Other locations

DLR Institute of Networked Energy Systems



186 employees

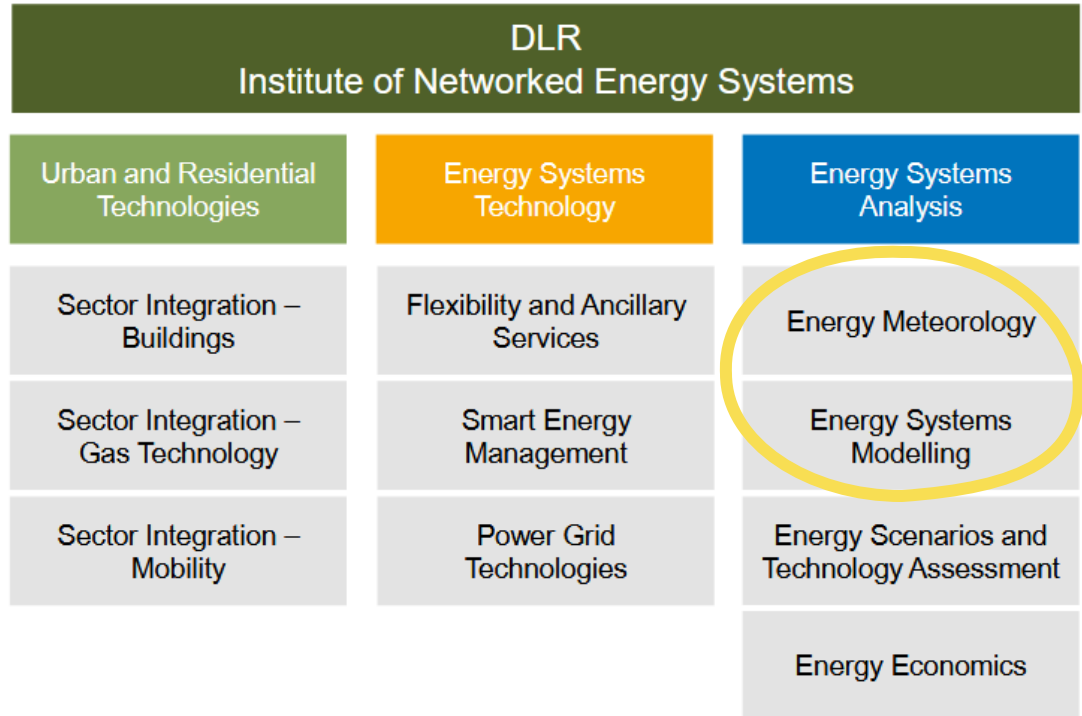
Laboratory building
Oldenburg



Office building
Oldenburg

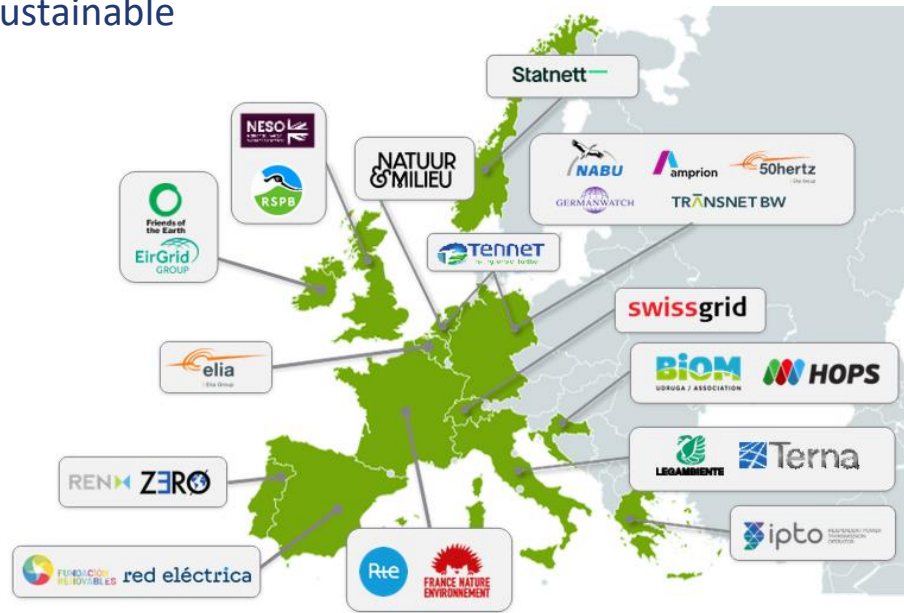


Office building
Stuttgart



What is RGI?

Renewables Grid Initiative (RGI) is a unique collaboration of European Non-Governmental Organisations (NGOs) and Transmission System Operators (TSOs), promoting sustainable grid development **across Europe**



How is our work structured?

As a solutions-driven organisation with focus on the electricity infrastructure implementation. We foster knowledge exchange, discussions on the needs of grid infrastructure, and best practices sharing within **three dimensions:**

GRIDS & ENERGY SYSTEMS

We enable discussions on how to **model, plan and implement** decarbonised and optimised clean energy systems, including different voices in the process.

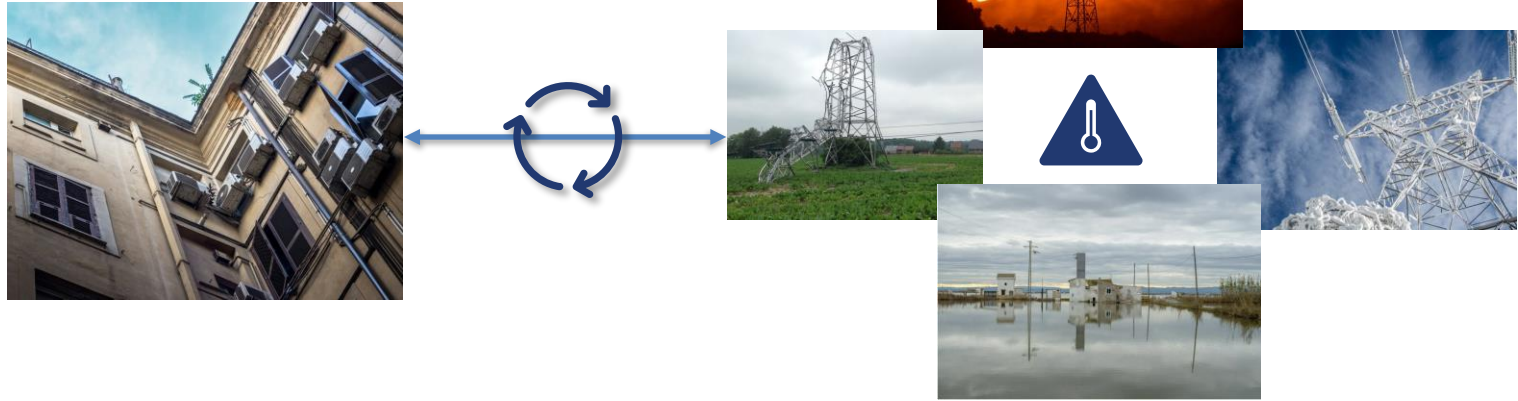
ENERGY & NATURE

We ensure energy systems both onshore and offshore are developed in **coherence with nature and biodiversity**, promoting mitigation, enhancement and restoration measures.

ENERGY & SOCIETY

We include and engage **citizens, civil society and policymakers** on strategies towards full decarbonisation, building capacity on the role of grids within the energy transition.

What are we facing with?



Changing climate and weather patterns as well as **extreme weather events** are already having an immediate **impacts on energy systems and physical infrastructure**

Energy research under DestinE

Contracts / projects

Using the Extremes Digital Twin to improve dynamic line ratings (IRM)

Renewable energy indicators produced by the Climate Digital Twin (BSC)

Enhanced forecasting precision from the Extremes Digital Twin (Geosphere)

Machine learning demonstrator for grid optimization powered by the Climate Digital Twin (DLR)

Selected applications

Energy system planning (renewables & hydro-energy, electricity grids)

Climate risk assessments (policy, industry)

Cross-sector integration (e.g., water-energy nexus)

Knowledge development



Integrated framework for European climate resilience and risk management (2026)

Integrating AI in energy system planning (2027?)

EUCRA-2 (2028)

Today's workshop: Goals



Discuss energy research themes **on a technical level**, to improve output-delivery in accordance with users-needs



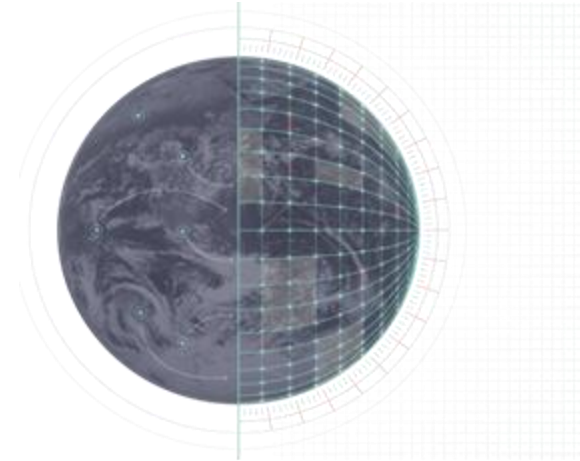
Validate/verify contracts' development



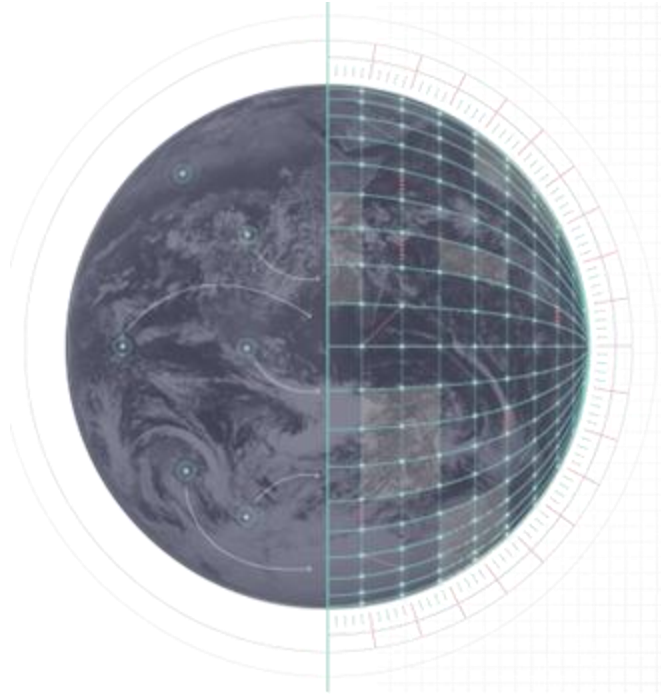
Identify opportunities for collaboration and further applications



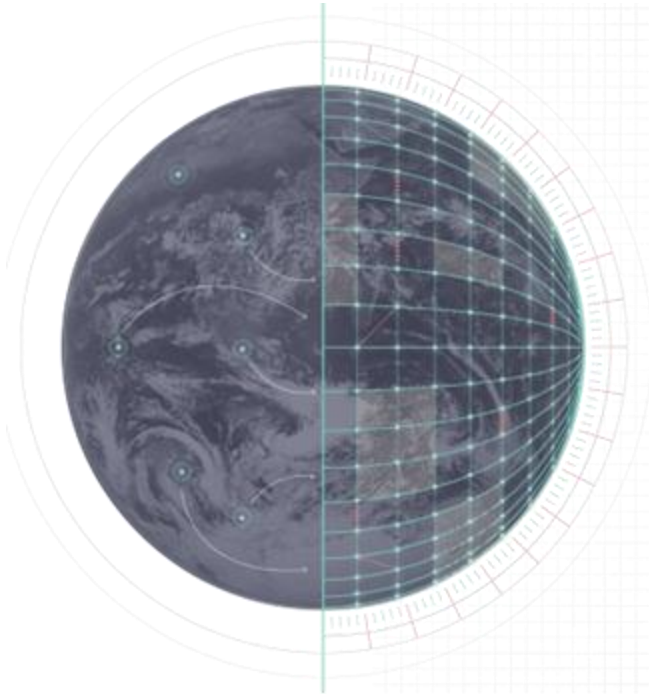
Increase and enhance DestinE's energy community (industry, policy, research, civil society)



Agenda



- 09:15: Introduction
- 09:25: Setting the scene: opportunities in energy system planning
- 09:35: Energy themes under DestinE
- 09:55: Group discussion – round 1
- 10:25: Refreshment break
- 10:35: Group discussion – round 2
- 11:05: Group discussion – round 3
- 11:35: Group briefings
- 11:50: Concluding remarks
- 12:00: End



Group discussions

Group 1: “Opportunities in energy system planning” (Benedict Englisch & Aron Zuiker, ENTSO-E)

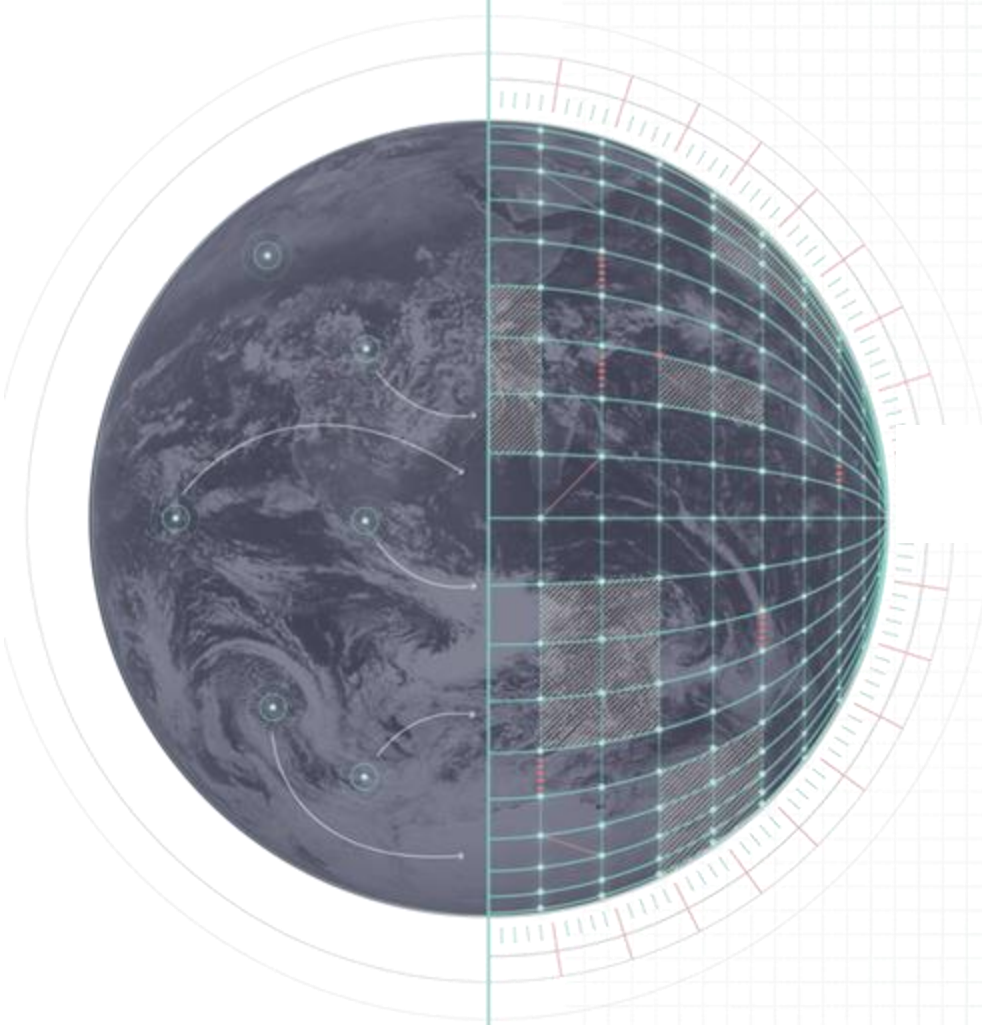
Group 2: “Machine learning Demonstrator for energy systems” (Alexander Kies, AU)

Group 3: “Dynamic line rating” (Joris van den Bergh / Piet Termonia, IRM)

Group 4: “Advancing wind energy services through operational km-scale climate projections” (Francesc Roura, BSC)

Group 5: “Extreme events for renewable energy” (Irene Schicker, GeoSphere)

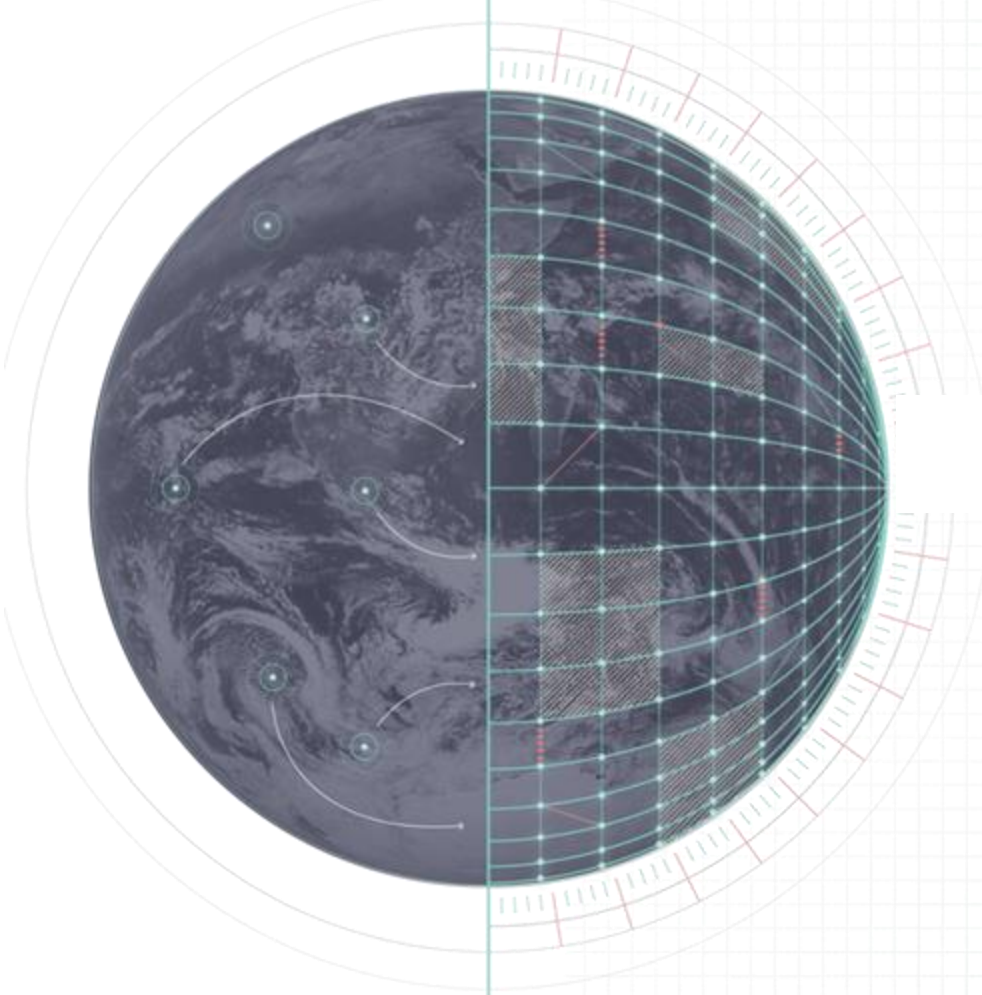
Group 6: “Climate risk assessments” (Bruno Schyska, DLR)



Group discussion: Round 1 (09:55 – 10:25)



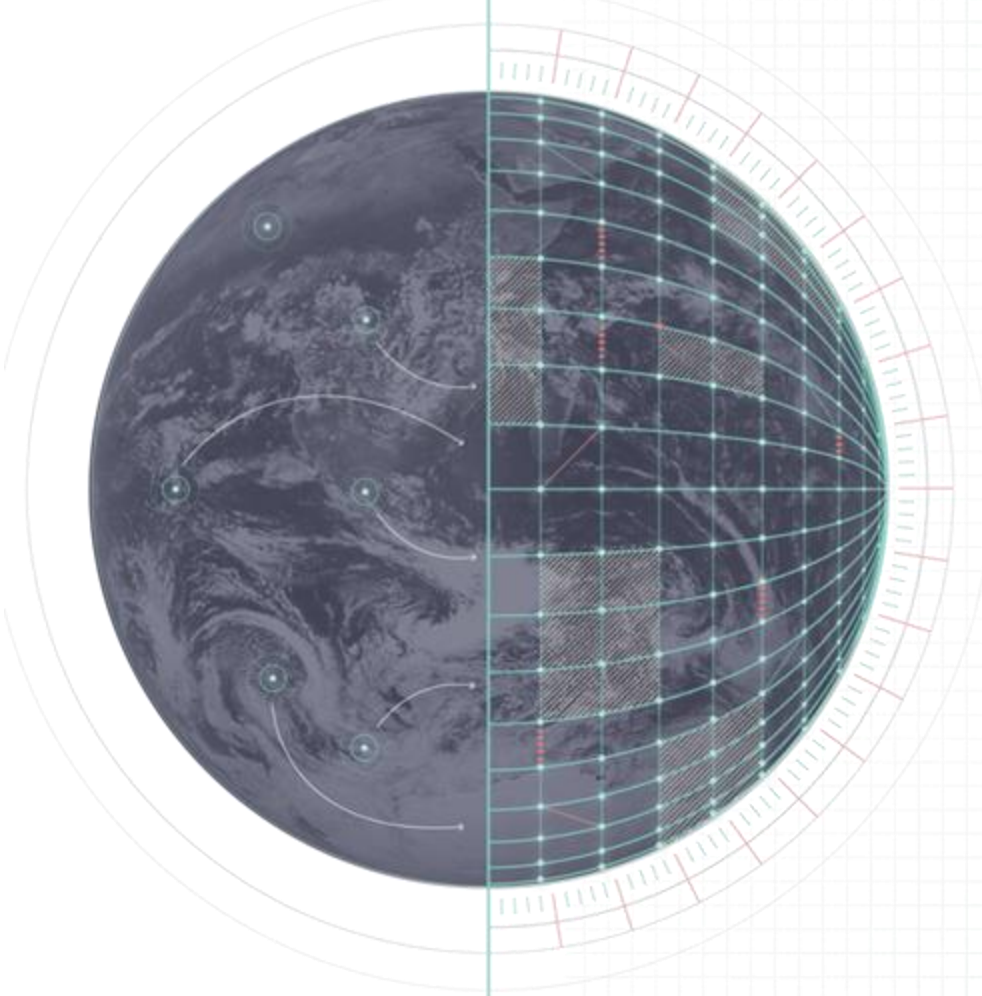
DESTINATION EARTH



Break (10:25 – 10:35)

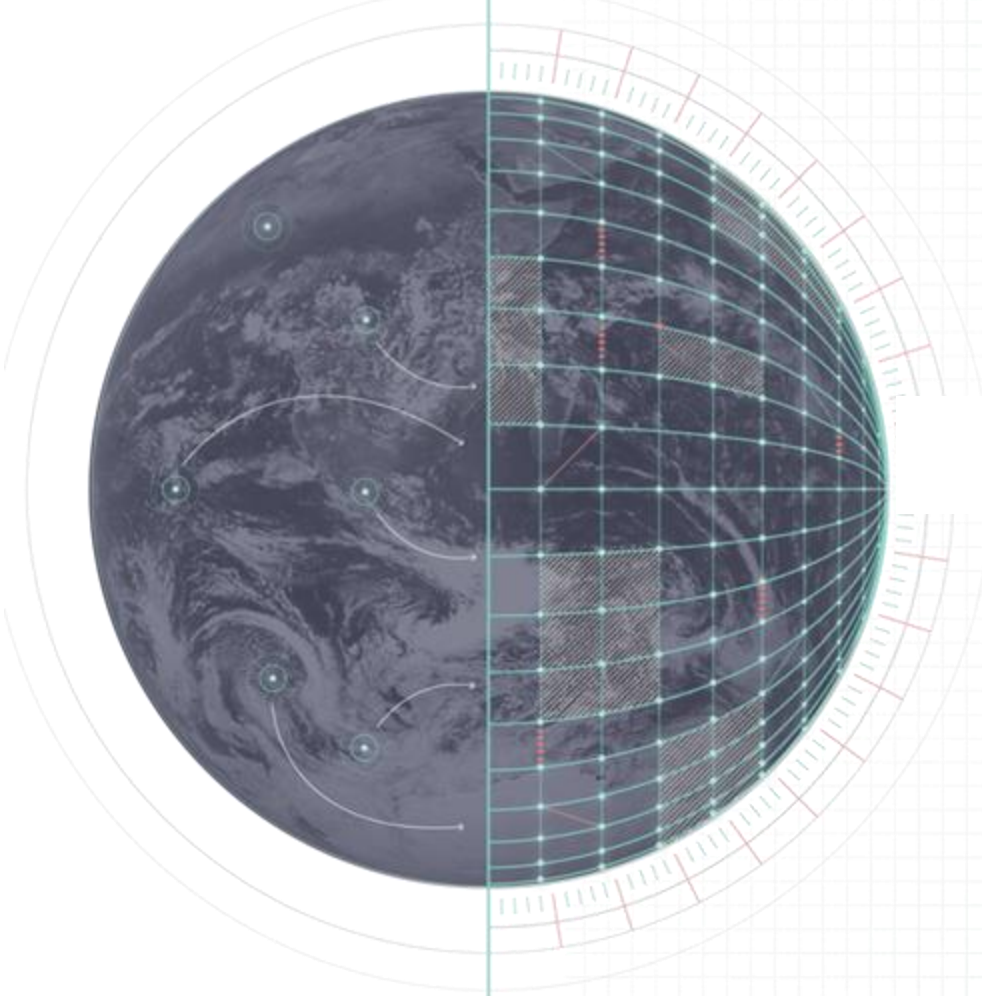


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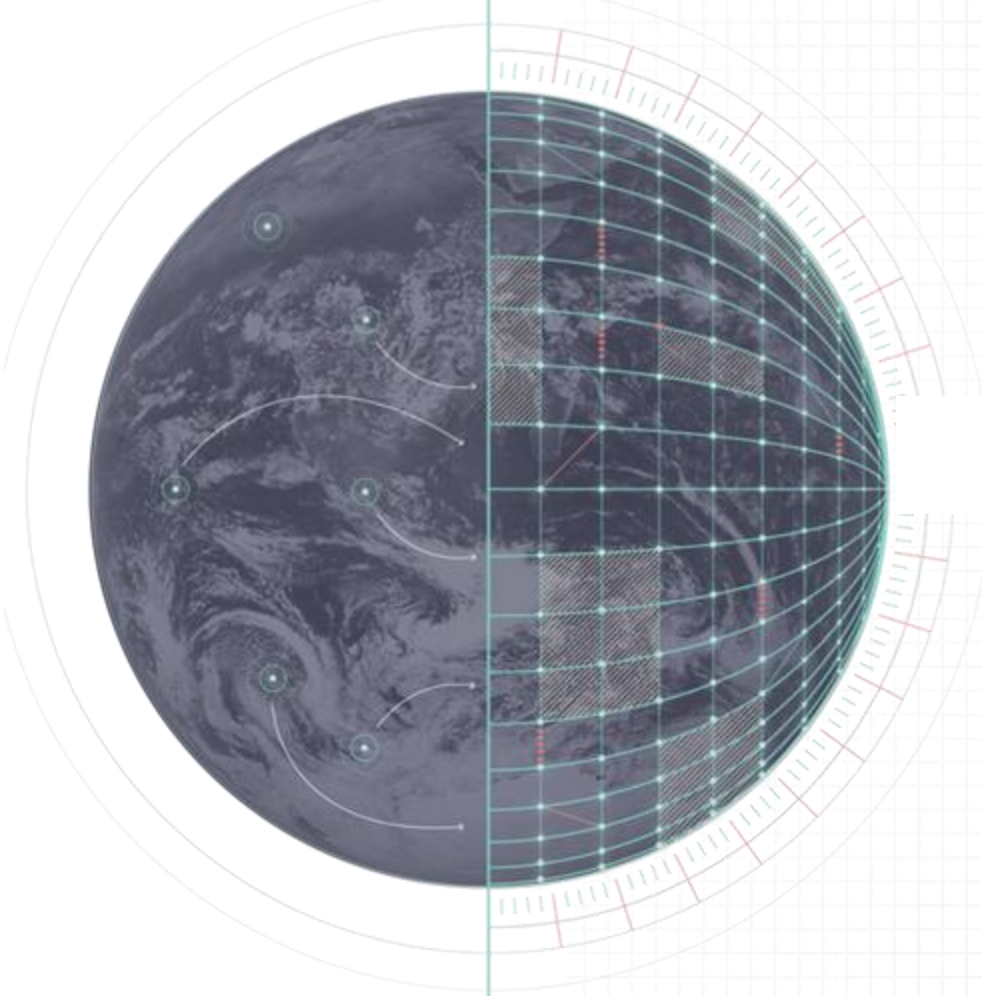
Group discussion: Round 2 (10:35 – 11:05)





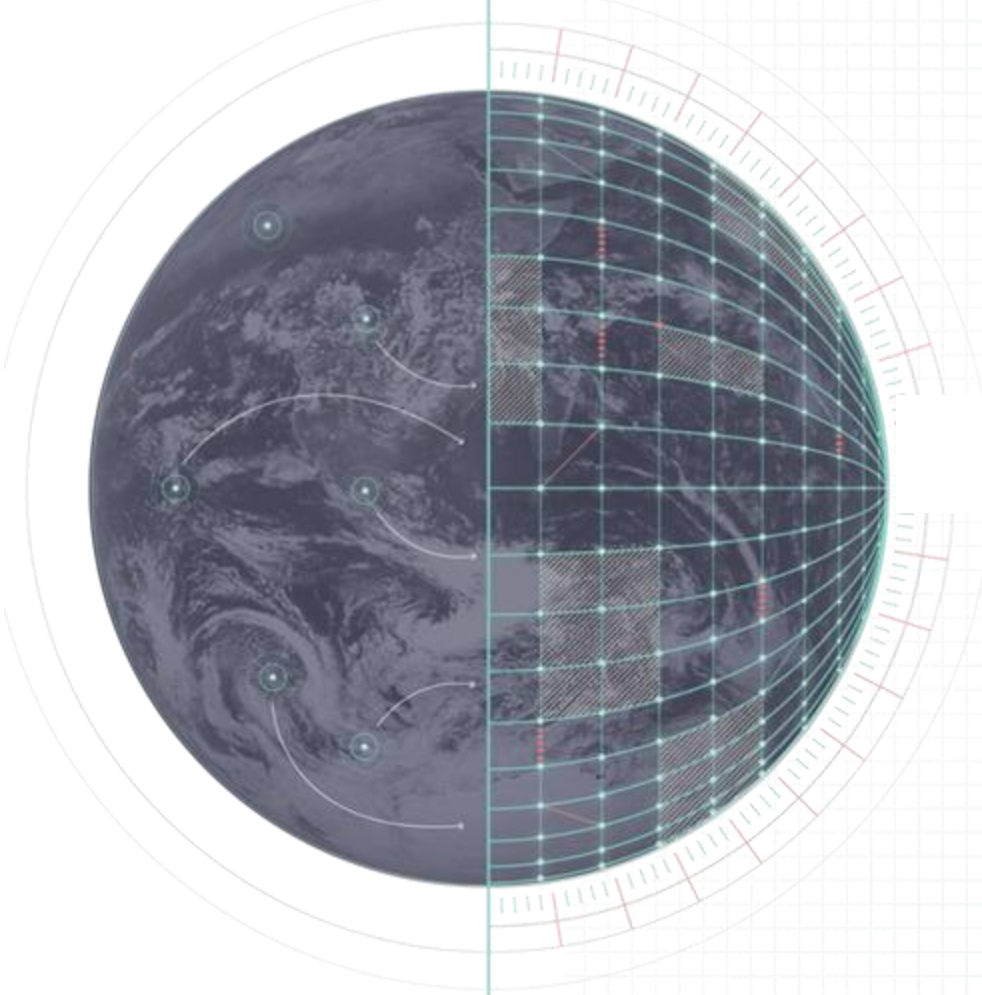
Group discussion: Round 3 (11:05 – 11:35)





Briefings from group discussions

DESTINATION EARTH



What's next?

Renewables
Grid Initiative



Thank you for your participation!



Join us tomorrow, 10 June, for a high-level panel discussion on DestinE energy research! **14:05, Ticket Window Hall** (Ground floor)

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website!

