Enhancing climate resilience in the European energy sector with DestinE

Webinar starts at 14:02

Renewables Grid Initiative

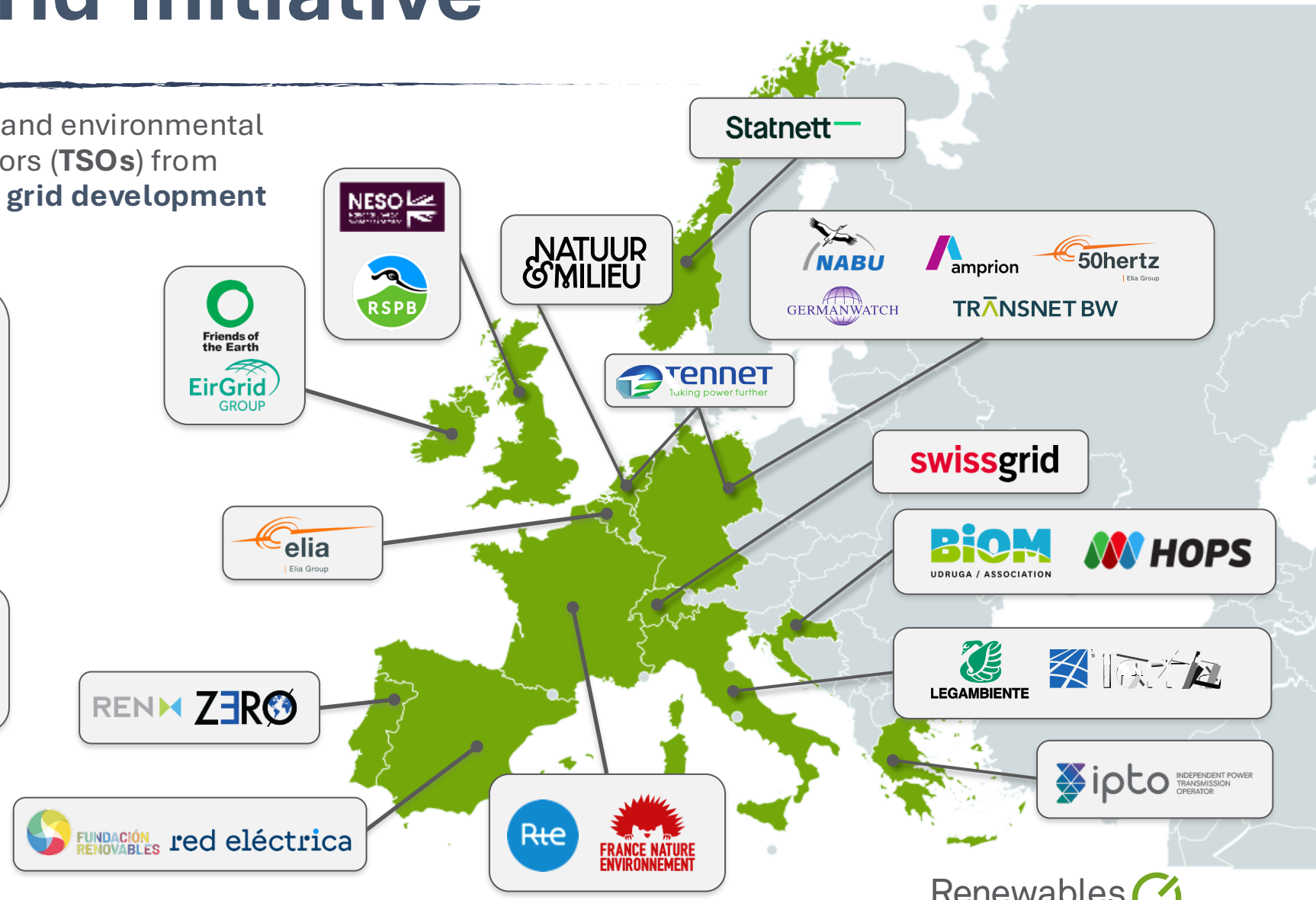
RGI is a unique collaboration of climate and environmental **NGOs** and Transmission System Operators (**TSOs**) from **across Europe**, promoting **sustainable grid development**

EUROPEAN ORGANISATIONS

CAN Europe · WWF · BirdLife International / BirdLife Europe · Bellona Europa · EMBER

SUPPORTING MEMBERS

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Renewables Grid Initiative

What is RGI?

RGI fosters knowledge exchange, discussions on the grid infrastructure needs, and the implementation of best practices 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.

HELLO, I'M TOMAS VAN OYEN

We turn complex data into better decisions.

At PropheSea, we create and implement decision intelligence software for our clients.

> Many of the challenges we work on are strongly influenced by meteorological conditions.

FROM WEATHER TO OPERATIONAL INSIGHT



Connecting environmental insight with real-world action.

IN DESTINATION EARTH

We worked alongside

GeoSphere

RMI

Both are national meteorological service providers.

Background: The European energy system under pressure

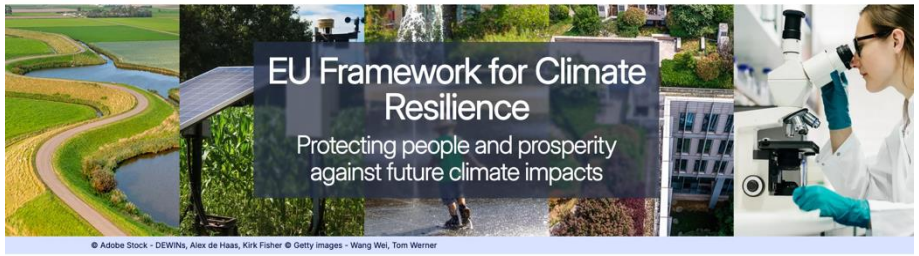
Increasing impacts of climate change and extreme weather events on the European energy system:

- Changes in generation and demand-side
- Impacts on physical assets
- Cascading effects on other sectors



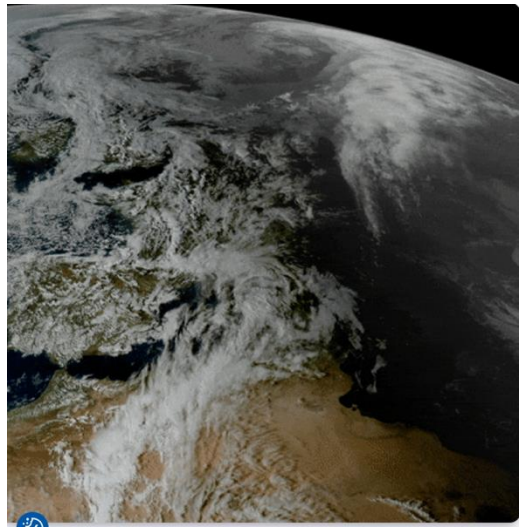
This requires:

- Accurate, validated and shared data, produced and processed by;
- Fast and reliable tools that can address complex sets of information, useful for;
- End-users and decision makers, who should also engage in the process



Photos: GNDR 2024, Elia. Unsplash / Photo by redcharlie on Unsplash

Destination Earth (DestinE)



EU initiative, led by DG CNECT and jointly implemented by ECMWF, ESA, EUMETSAT

Monitoring and predicting interactions between natural phenomena and human activities in various sectors, to support better decision making through 2 Digital Twins (DTs): Extreme DT and Climate DT

2025-2026: 2 projects relevant for the energy sector:

Support project / energy system operation



Support energy system planning



Sources: ECMWF website