



# Catalysing EU Research for twin digital and green transition in Europe

**Adel El Gammal**  
Secretary General

*November 2023*



# EERA: The largest energy research community in Europe

## Mission

Catalyzing European energy research to achieve a  
**climate neutral society by 2050**

To become  
**EU's privileged energy research authority**

## Vision

# EERA: Gathering the most outstanding research and innovation players in the continent

- ▶ EERA coordinates **250 research organisations** and **universities** across **30 countries**.
- ▶ EERA's research activities are organised in **18 Pan-European Joint Research Programmes** and a **Transition Expert Group**.

Materials  
(2)



LOW-CARBON  
technologies  
(10)



SYSTEMIC  
Research areas  
(6)



- ▶ EERA is the **formal research pillar** of the **EC Strategic Energy Technology Plan (SET-Plan)**.

# EERA Joint Programmes

EERA JPs cover the entire spectrum of CET related research fields - Technology and non-technology



- ▶ Energy Transition for Sustainable Society
- ▶ Energy Systems Integration
- ▶ Smart Grids

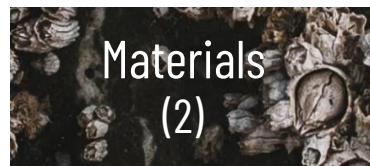
Rafael Mayo Garcia

- ▶ Energy Efficiency in Industry
- ▶ Smart Cities
- ▶ Energy Digitalisation



- ▶ Wind
- ▶ PV
- ▶ Hydrogen & Fuel Cells
- ▶ Energy Storage
- ▶ CC(U)S

- ▶ Hydropower
- ▶ Bioenergy
- ▶ Geothermal
- ▶ Ocean
- ▶ CSP



- ▶ Advanced Materials Energy Applications

- ▶ Nuclear Materials

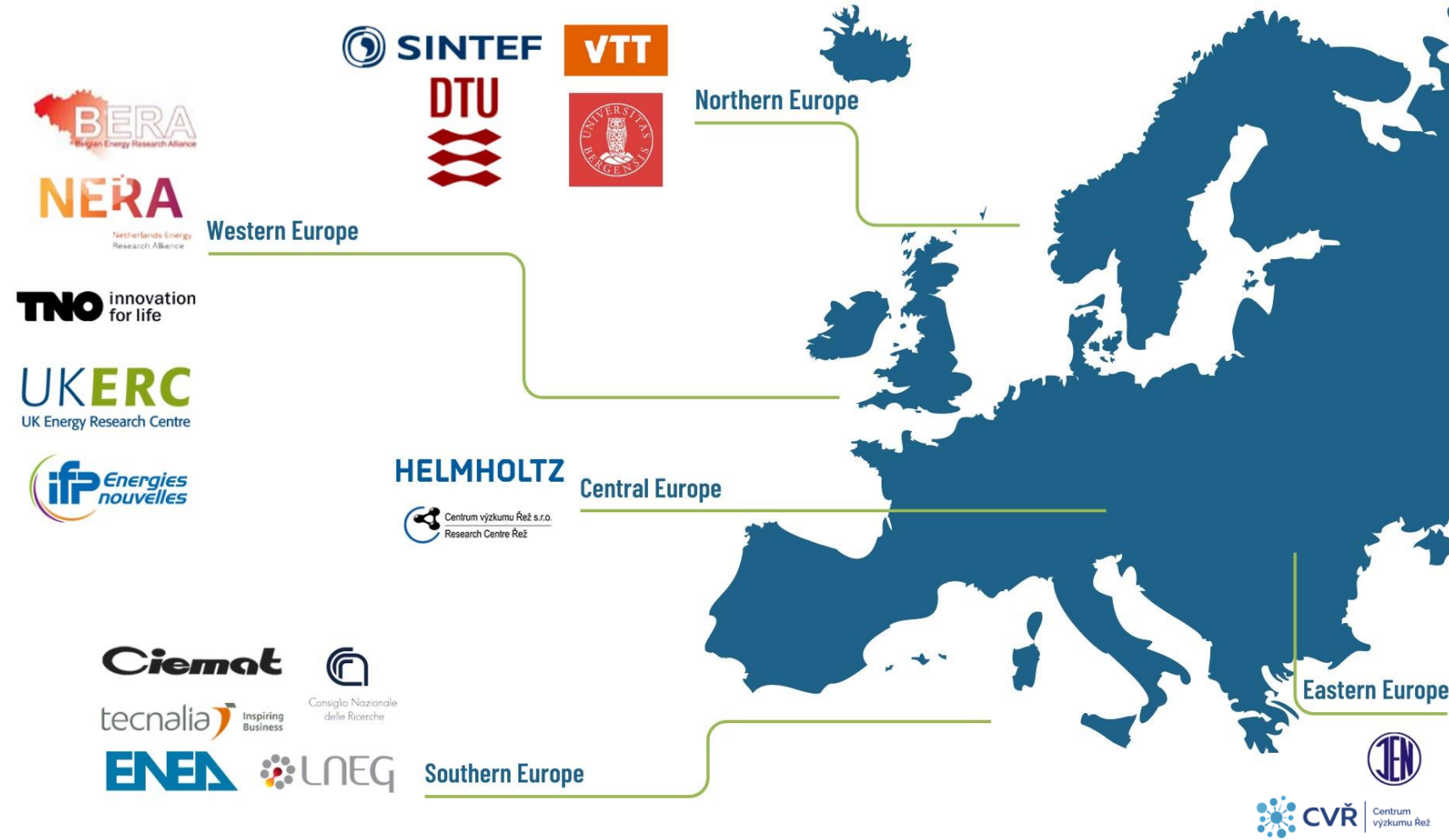


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# The European footprint

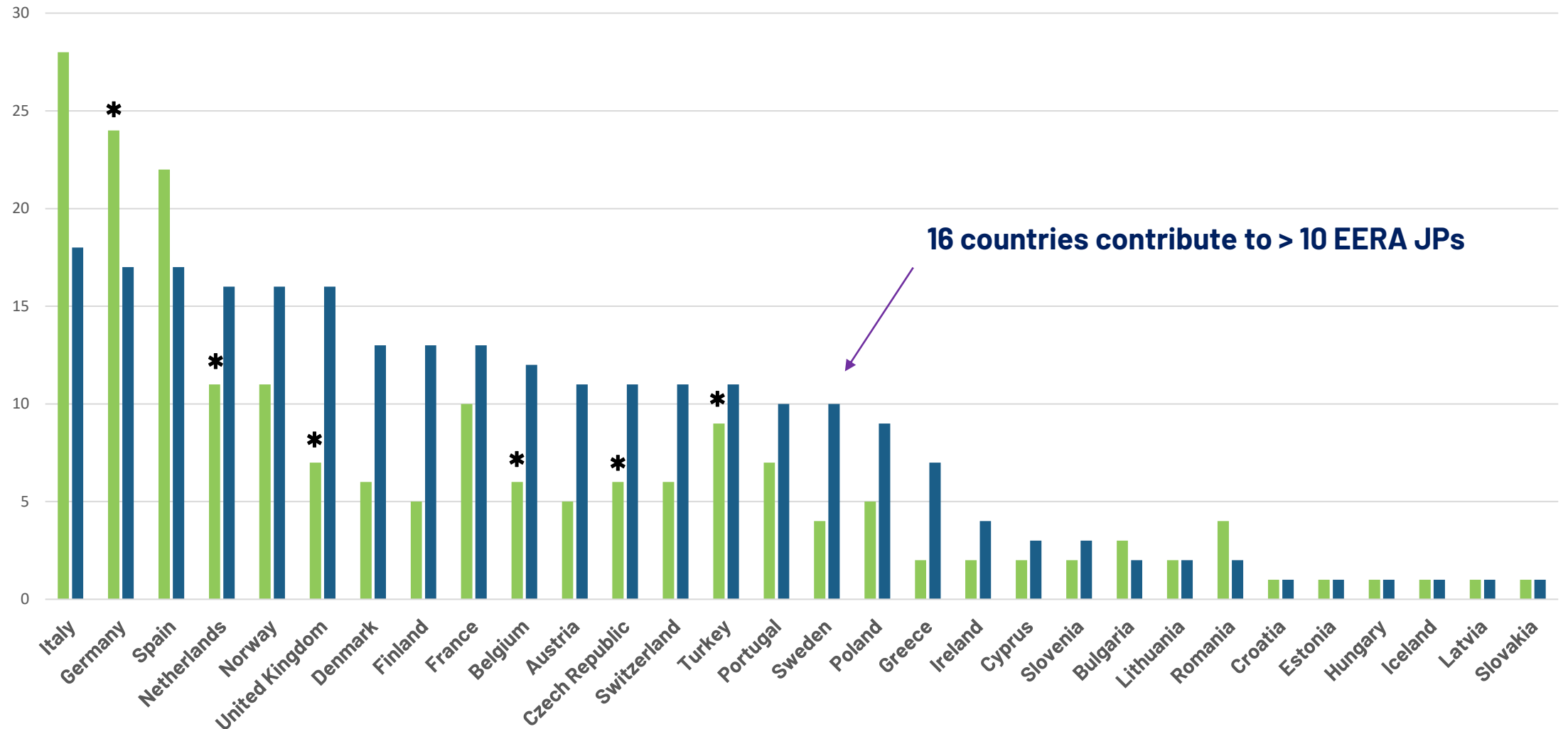
EERA leadership (Executive Committee) is composed of **17 organizations** from **13 countries** covering the whole of EU

[Link to EERA Executive Committee](#)



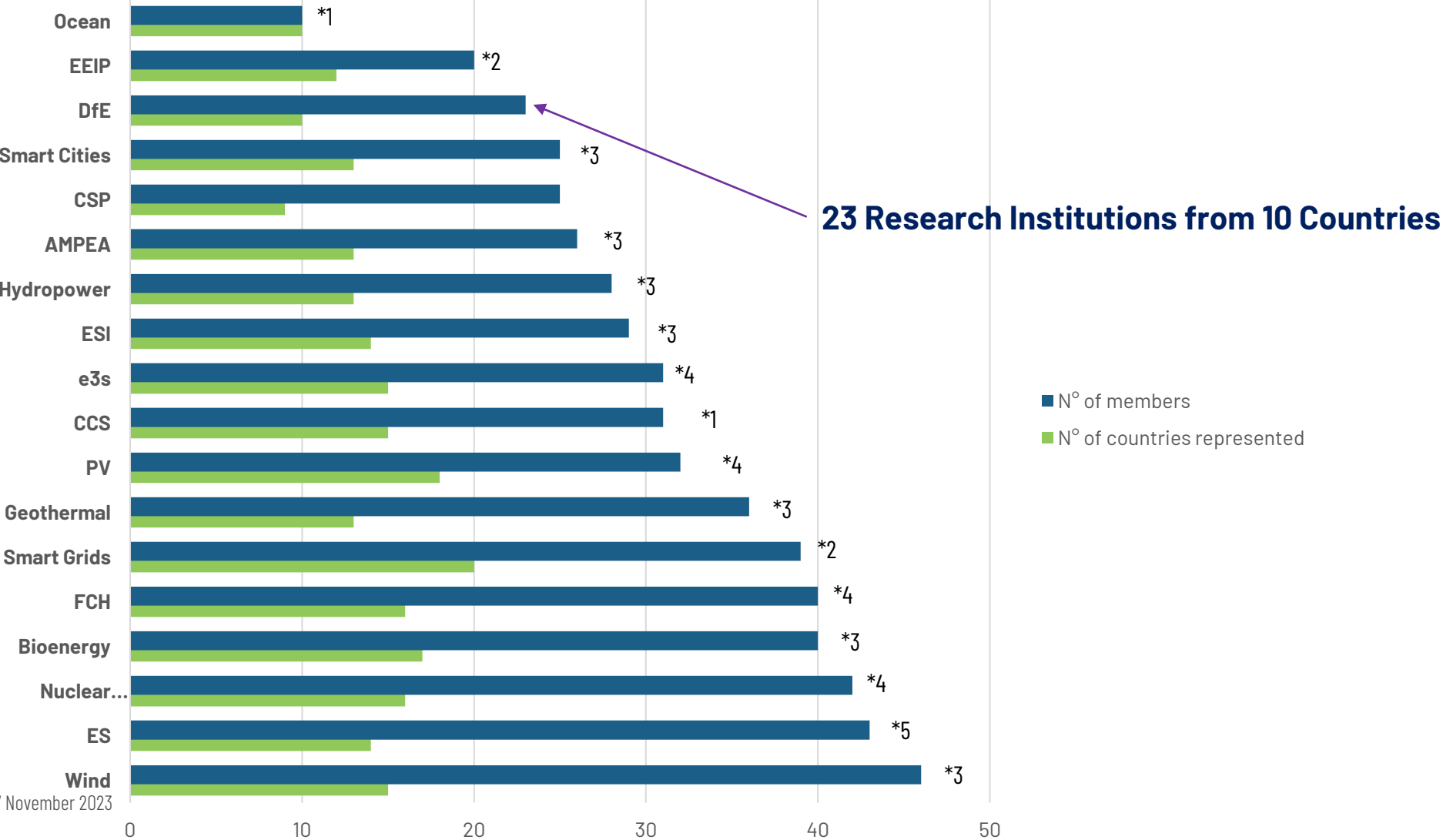
# EERA members per country and country representation in JPs

EERA JPs are a unique example of successful pan European collaboration



# Number of members per JP and number of countries represented in each JP

EERA JPs catalyze best available research across Europe





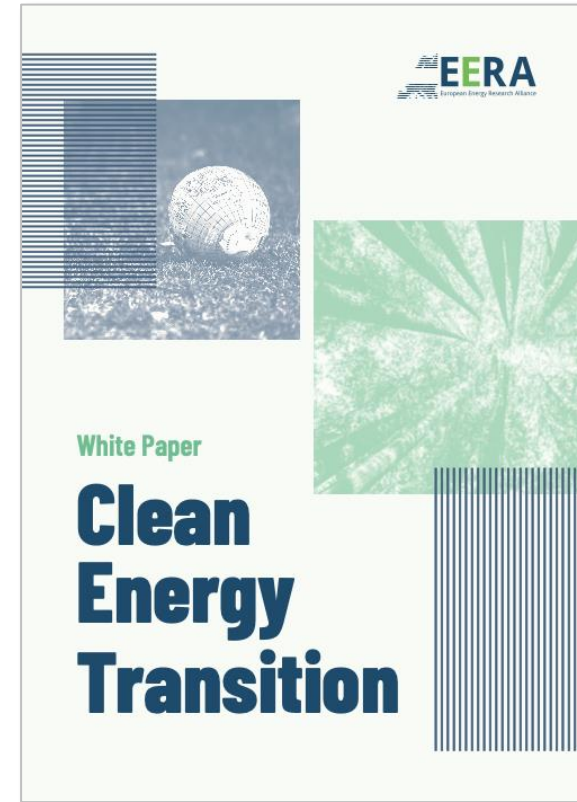


**3**

**EERA expertise on transition strategy**

# EERA thought leadership (1/5)

A framework recommending a **top-down, systemic, cross-sectoral** and **societal** approach, which has been at the core of building the **SRIA of the CETP** and de-siloing the **SET Plan**.



October 2021

[Link to White Paper](#)

# EERA Thought Leadership (2/5)



**October 2022**

[Link to Manifesto](#)

- ▶ Highlights contribution of research on **short term supply chain bottlenecks**
- ▶ Emphasizes **demand reduction** as key lever to the CET
- ▶ Emphasizes the importance of **Heating & Cooling** in final energy demand

# Thought leadership (3/5): EU CET and EU Strategic Autonomy

EERA High level Policy Conference on 17 October 2023 launching two new flagship reports



17 October 2023 | 9.00 - 13.00 CEST  
TownHall Europe, Brussels *with live broadcast*

**EERA**  
European Energy Research Alliance

**Researching energy pathways to a resilient and net-zero society**

Discover our keynote speakers

  
Salla Saastamoinen  
Deputy DG, JRC, European Commission

  
Paula Pinho  
Director, DG ENER, EU Commission

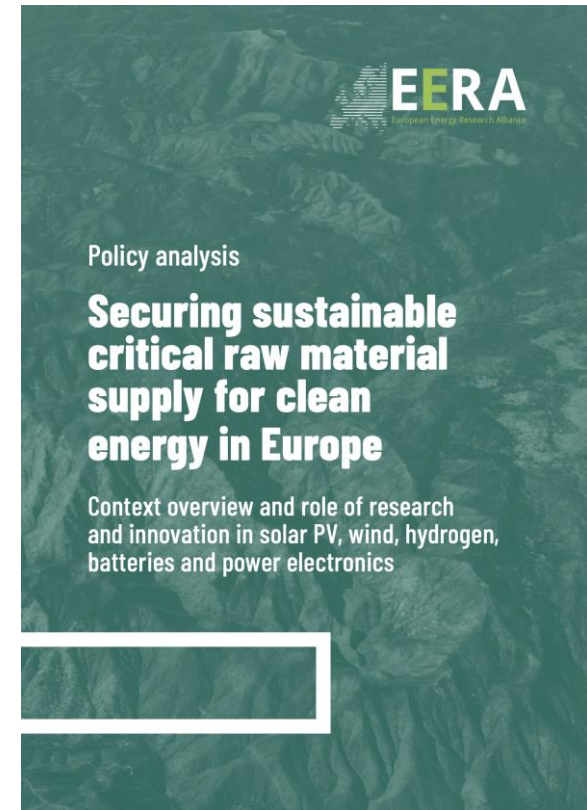
  
Sandrine Dixson-Declève  
Co-president, Club of Rome

  
Philippe Lamberts  
Member of the EP, President of the Greens

- ▶ European Commission
- ▶ European Parliament
- ▶ Leading Think Tanks
- ▶ Leading Research Institutes

# EERA Thought Leadership (4/5)

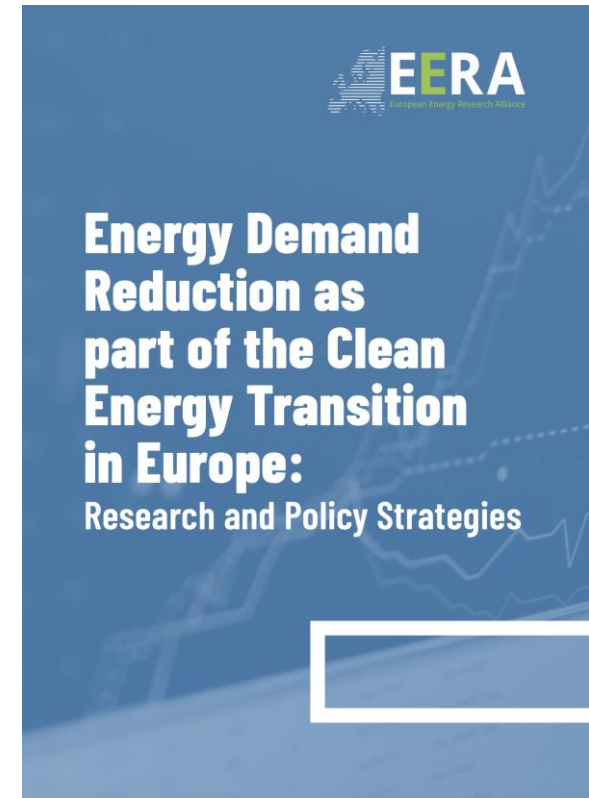
- ▶ **Clean Energy Transition Dependency to the Critical Minerals**
- ▶ Deep Dive on **5 key low-carbon technologies**
- ▶ Key **Policy recommendations**



**October 2022**  
[Link to Flagship](#)

# EERA Thought Leadership (5/5)

- ▶ Brings **Demand Reduction at core** of **Clean Energy Transition**
- ▶ Deep dive into the concept and implications of **Energy Sufficiency**
- ▶ Policy recommendations for **structural long term Demand Reduction**



**October 2023**

[Link to Flagship](#)



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## **Focusing on Joint Programme Digital for Energy**

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- ▶ Smart Grids

- ▶ Energy Efficiency in Industry
- ▶ Smart Cities

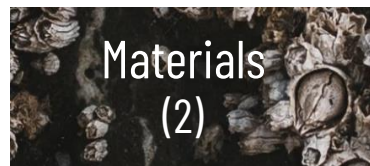
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▶ **Energy Digitalisation**



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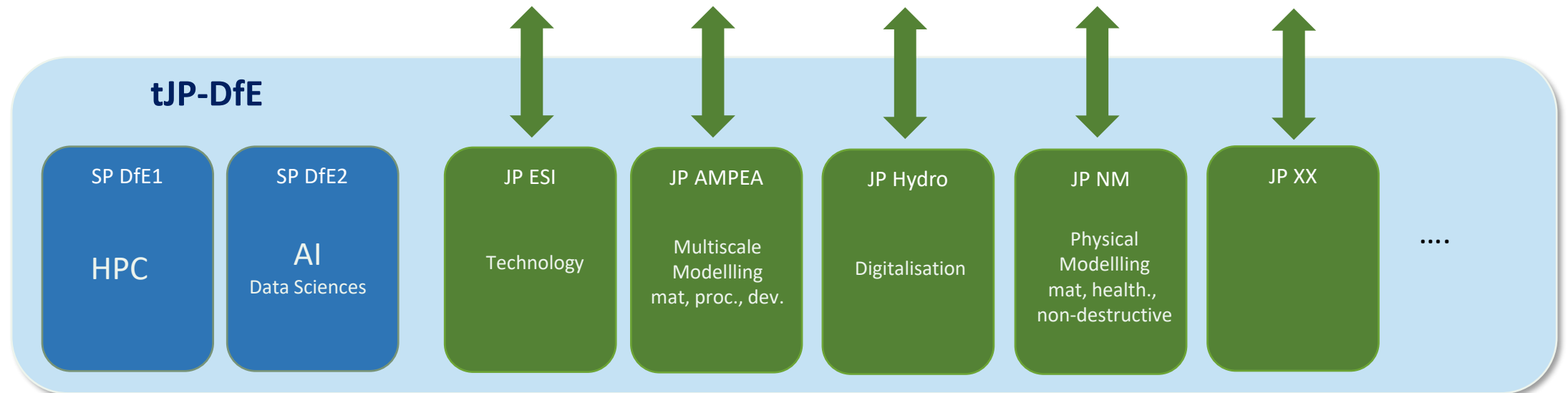
- ▶ Advanced Materials Energy Applications

- ▶ Nuclear Materials



# A cross-cutting transversal JP Digital for Energy

Digital is core to virtually all technologies and models pertaining to the Clean Energy Transition



# Leading edge research partners

## Partners



# Supporting EU Action Plan on Digitalisation of the Energy System



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## Feedback from: EERA - The European Energy Research Alliance

[Have your say](#) > [Published initiatives](#) > [Digitalising the energy sector – EU action plan](#) > [Feedback from:](#)

<b>Feedback reference</b>	F2670121
<b>Submitted on</b>	08 September 2021
<b>Submitted by</b>	Rosita Zilli
<b>User type</b>	Non-governmental organisation (NGO)
<b>Organisation</b>	EERA - The European Energy Research Alliance
<b>Organisation size</b>	Small (10 to 49 employees)
<b>Transparency register number</b>	<a href="#">339037837173-73</a>
<b>Country of origin</b>	Belgium
<b>Initiative</b>	<a href="#">Digitalising the energy sector – EU action plan</a>

# Supporting EU Action Plan on Digitalisation of the Energy System



- 1. Data Sharing for Innovative Energy Systems**
- 2. Promoting Investment in Digital Infrastructure  
(€ 584Bn / 2030 electricity Grid)**
- 3. Empowering citizens - Energy Communities  
(20% energy saving)**
- 4. Cybersecurity & energy systems resilience**
- 5. Reducing Energy consumption**
- 6. Skills and workforce**





# Thank You

## Website

[www.eera-set.eu](http://www.eera-set.eu)

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