

Welcome-Opening Remarks

Dr. Christina Papadimitriou, Assist. Professor Intelligent Energy Systems(TU/e)



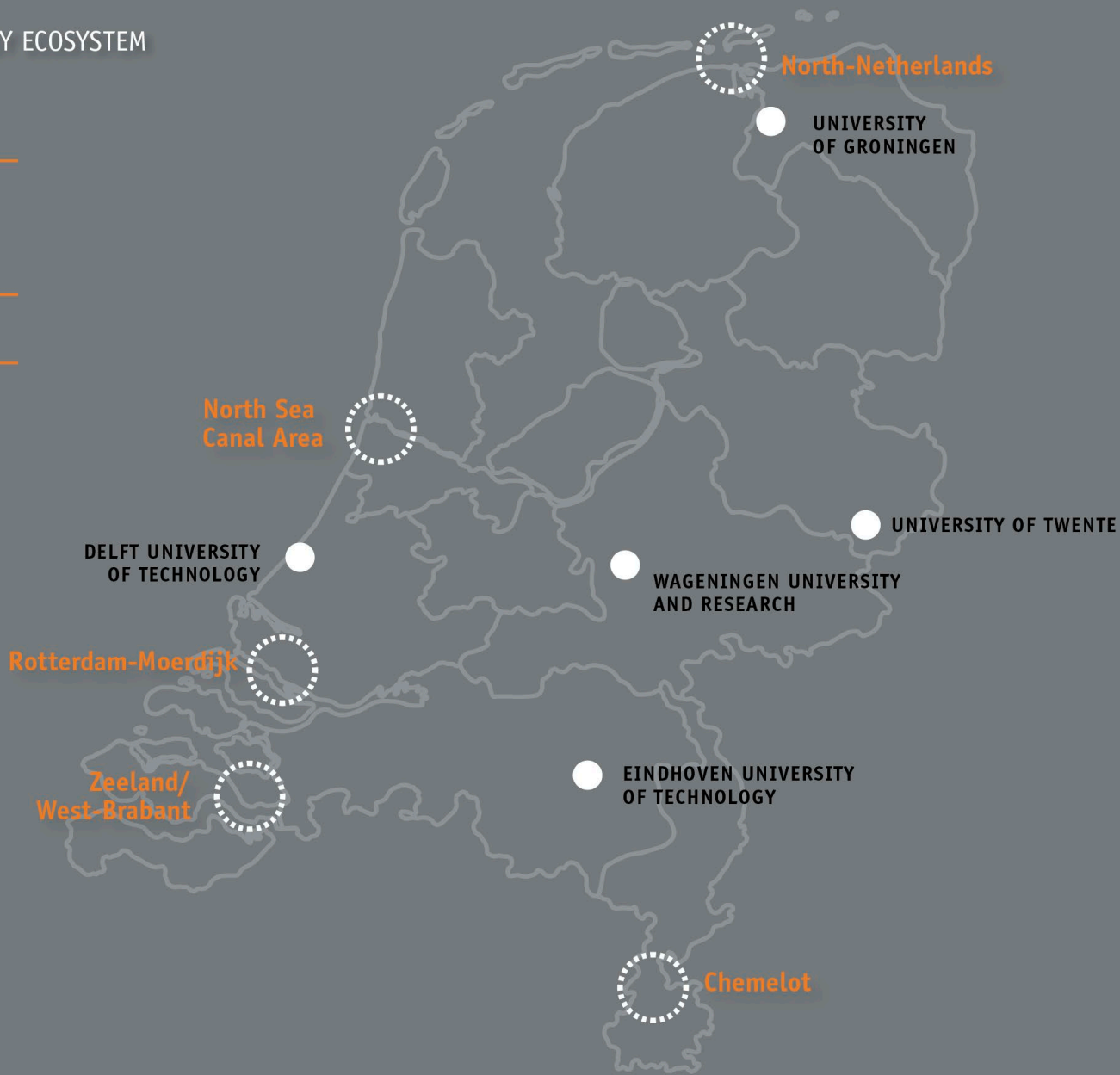
4TU.ENERGY'S NATIONAL ENERGY ECOSYSTEM AND COLLABORATIVE REACH

- **4TU+**
100+ Research Groups
1000+ Researchers
- **6 Industry Clusters**

The national energy ecosystem comprises both academia and industry clusters.

4TU+ stands for the four TUs and the University of Groningen, totaling over 100 research groups and 1,000 researchers.

The sixth industry cluster is dispersed across the Netherlands.



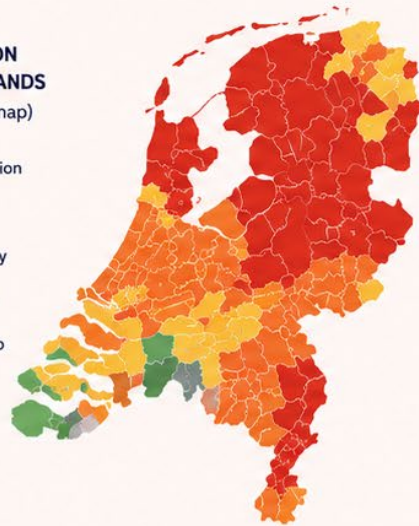
What is this 4TU symposium for?

1 THE CHALLENGE: URGENCY

Grid congestion is limiting the energy transition

GRID CONGESTION
IN THE NETHERLANDS
(DSO congestion map)

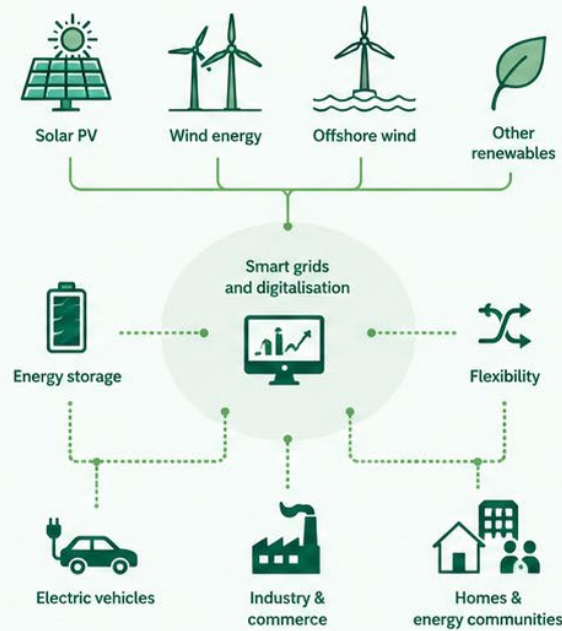
- Severe congestion
- Congestion
- Limited capacity
- No congestion
- No capacity info



- Increasing pressure on the grid
- Electrification is accelerating
- Decentralised energy production is growing
- Congestion affects businesses, citizens and sustainability goals

2 THE FUTURE: ENERGY SYSTEM

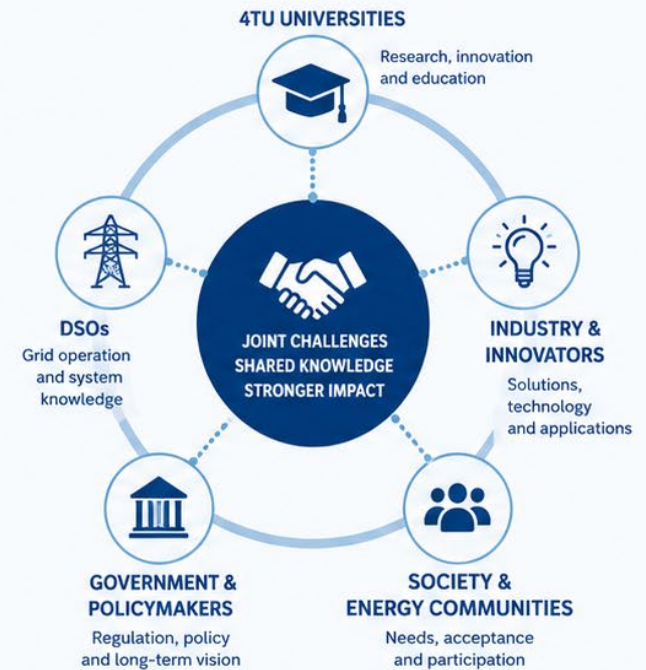
A decentralised, renewable and flexible system



Moving towards a sustainable, reliable and customer-centric energy system

3 THE SOLUTION: COLLABORATION

Stronger together for impact



Creating a structured platform for knowledge exchange, matchmaking and long-term collaboration



Agenda validation

10:15 Opening Remarks | Room “Klein Atrium (A0.07)” | Moderator: Christina Papadimitriou (TU/e)

10:30 Keynote | Room “Klein Atrium (A0.07)” | Pallas Agterberg - Challenge Officer @Alliander

Title: New challenges in the distribution grids - new technologies and possibilities

11:00 Parallel Breakouts: Grid Congestion / Flexibility

Breakout session **Grid** | Room “Spanning (S0.06)” | Moderator: Elke Klaassen (Enexis)

Breakout session **Flexibility** | stay in Room “Klein Atrium (A0.07)” | Moderator: Tarek Alskaif (WUR)

12:30 Lunch & Poster Session | Hospitality area

13:30 Panel Discussion: Energy Hubs & Future Collaboration | Room “Klein Atrium (A0.07)” | Moderator: Gerwin Hoogsteen (UTwente), Werner van Westering (Alliander)

15:00-16:00 Networking & Poster Walk | Hospitality area



Program on our Website

Desired outcomes

- Shared understanding of current power system challenges from operators perspective.
- Identification of high-impact research themes for funding opportunities.
- New MSc and PhD collaboration opportunities
- Stronger structural connection between 4TU and joint research

Final remark

The energy transition is no longer only a technology challenge — it is a coordination challenge



Powering Impact
4TU.Energy Impact Review
2022-2026 and
Looking Ahead

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