

**TITLE TBD.**

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**Tags:** resilience, infrastructure, energy system modelling, energy policy

**43<sup>rd</sup> International Energy Workshop — relevant conference topics:**

(1) Reaching net-zero emissions and climate neutrality • (2) Role of renewable energy in the energy transition • (3) Role of hydrogen, ammonia, e-fuels and e-methane in the energy transition • (4) Managing power system transitions — integration of variable renewable energy and power-to-X • (5) Sectoral pathways for the energy transition — transport, industry, and buildings • (6) Energy transition infrastructure — assessment of infrastructure to enable the energy transition, including electrical transmission, storage, EV charging, and hydrogen distribution, CCS and CDR • (12) Climate resilience of energy systems • (13) Utilisation of scenarios by governments

## Summary

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## Introduction

In the research project RESILIENT<sup>1</sup>, our team develops the first truly multi-vector energy infrastructure planning tool that can handle uncertain environments. We build upon the open-source, widely-used, multi-vector energy planning tool PyPSA-Eur<sup>2</sup>, and improve its ability to optimise energy infrastructure in a resilient way.

## Methodology

Methodology

## Results (preliminary)

Results

## Conclusion

Conclusion

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<sup>1</sup><https://resilient-project.github.io/>

<sup>2</sup><https://pypsa-eur.readthedocs.io/>

# References

References