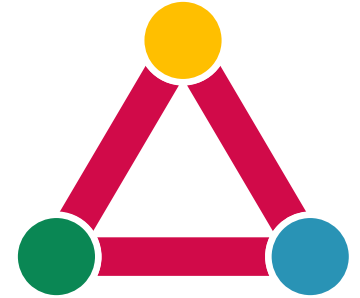


PyPSA-NL user meeting, 1 juli 2026 @TenneT

Onderzoek in ons team met PyPSA.

Gebruik tot nu toe en toekomstplannen

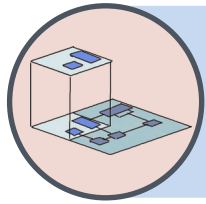


Francesco Lombardi

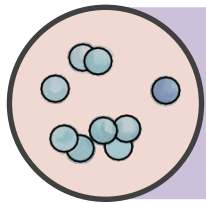
Assistant Professor of Multi-Scale Integrated Energy System Design

Faculty of Technology, Policy and Management

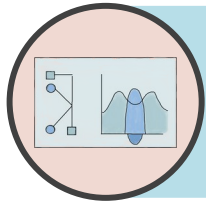
Het ontwerpen van technisch robuuste en praktisch haalbare energiesystemen tussen verschillende schaalniveaus



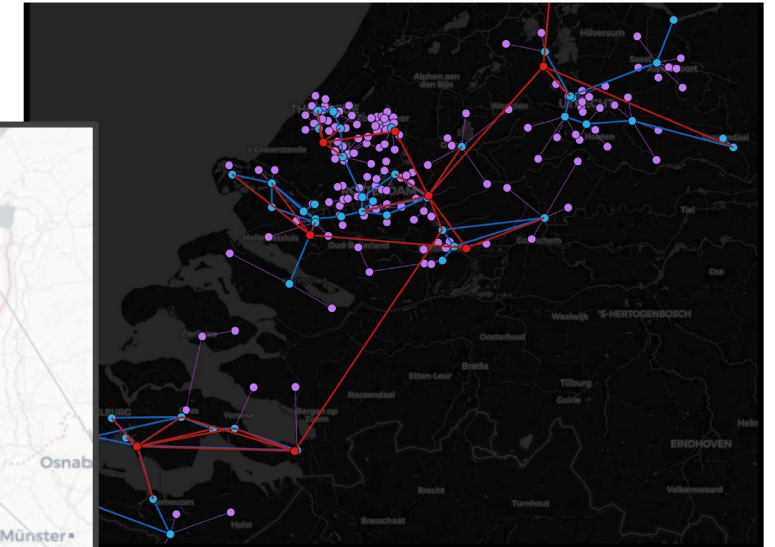
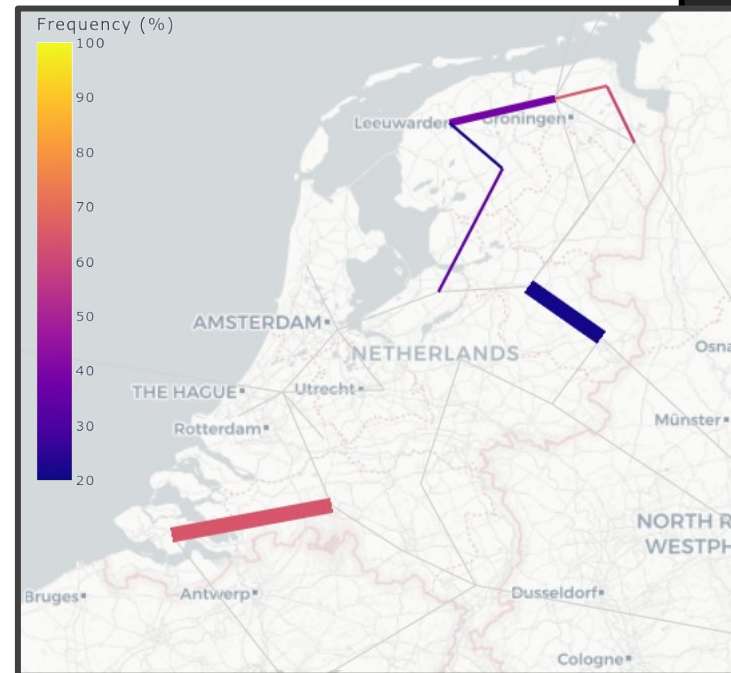
**APPROXIMATE MULTI-SCALE
COMPUTING METHODS**



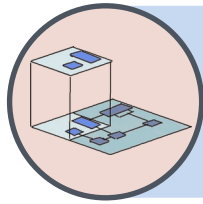
**ALGORITHMS THAT
GENERATE RESILIENT
PLANNING ALTERNATIVES**



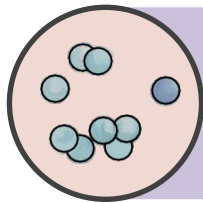
**HUMAN-COMPUTER
INTERACTION METHODS**



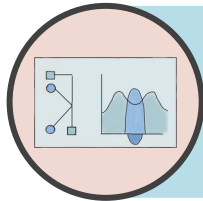
Het ontwerpen van technisch robuuste en praktisch haalbare energiesystemen tussen verschillende schaalniveaus



**APPROXIMATE MULTI-SCALE
COMPUTING METHODS**



**ALGORITHMS THAT
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**HUMAN-COMPUTER
INTERACTION METHODS**



Voorbeeld: SPROUT

System-positive Multi-Carrier Energy Hubs

Industry-academia samenwerking: 5.6 miljoen EUR

THE
GREEN
VILLAGE

TU Delft

DIVISION Q



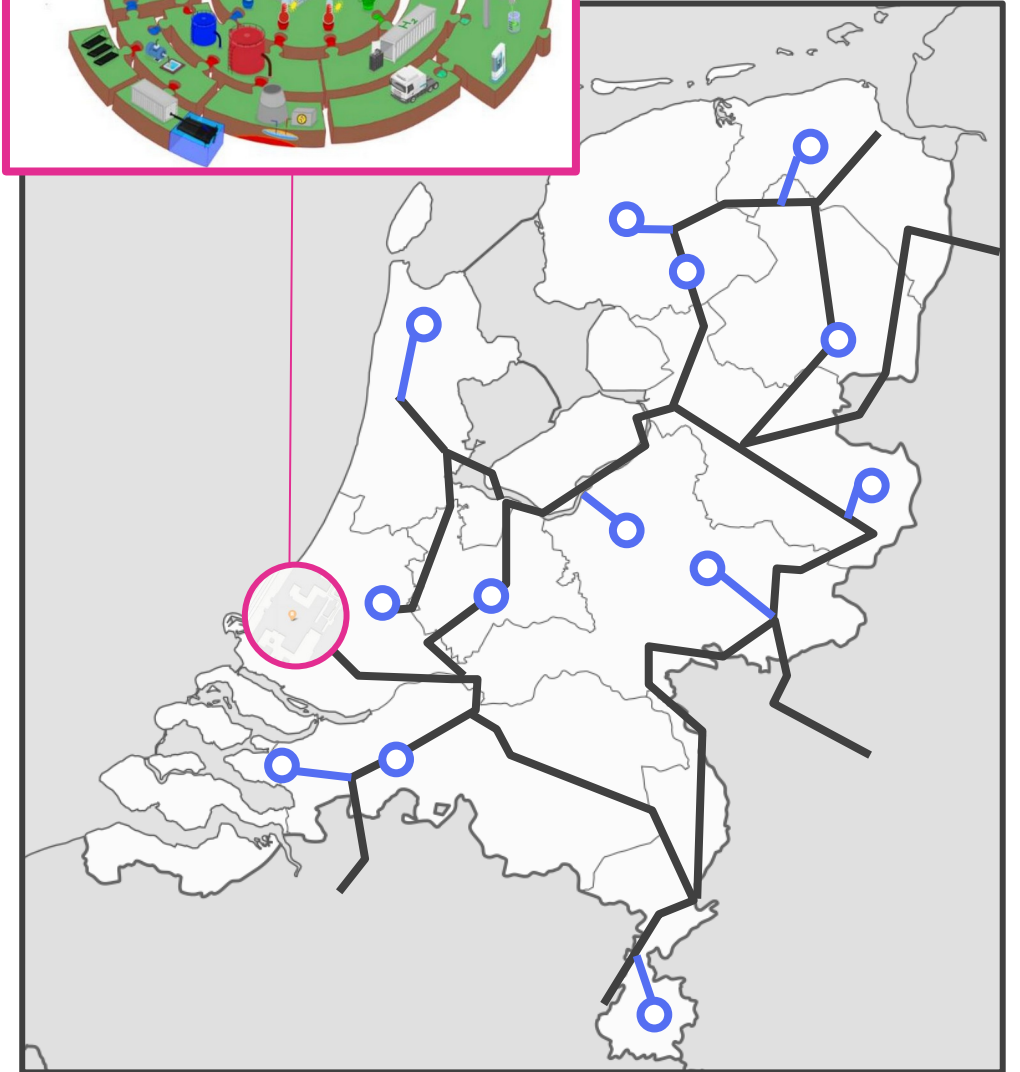
Universiteit
Leiden



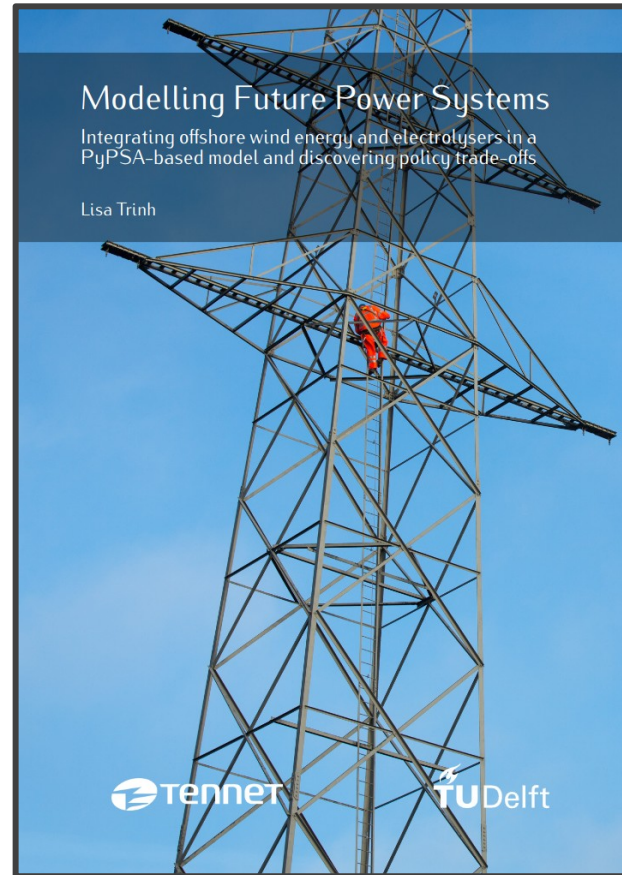
EFUELUTION



westland
infra netbeheer



PyPSA. Afgeronde experimenten



edu.nl/bahg4

edu.nl/qpfu4

Congestion-Neutral Operation of Residential Battery Storage in the Dutch Electricity Grid

Modelling Grid Impact and Economic Feasibility for
Aggregator-Controlled R-BESS

Thesis report

by

Tanne Heemsbergen

to obtain the degree of Master of Science
at the Delft University of Technology
to be defended publicly on September 8, 2025 at 14:30

Thesis committee:

Chair:	Dr. ir. I. (Ivo) Bouwmans
Supervisors:	Dr. F. (Francesco) Lombardi Dr. J.H.R. (Ron) van Duin
External examiner:	Niels Janssen
Place:	Faculty of Technology, Policy and Management, Delft
Company:	Energy System Studies, Witteveen+Bos
Project Duration:	February, 2025 - July, 2025
Student number:	6074081

An electronic version of this thesis is available at <http://repository.tudelft.nl/>.

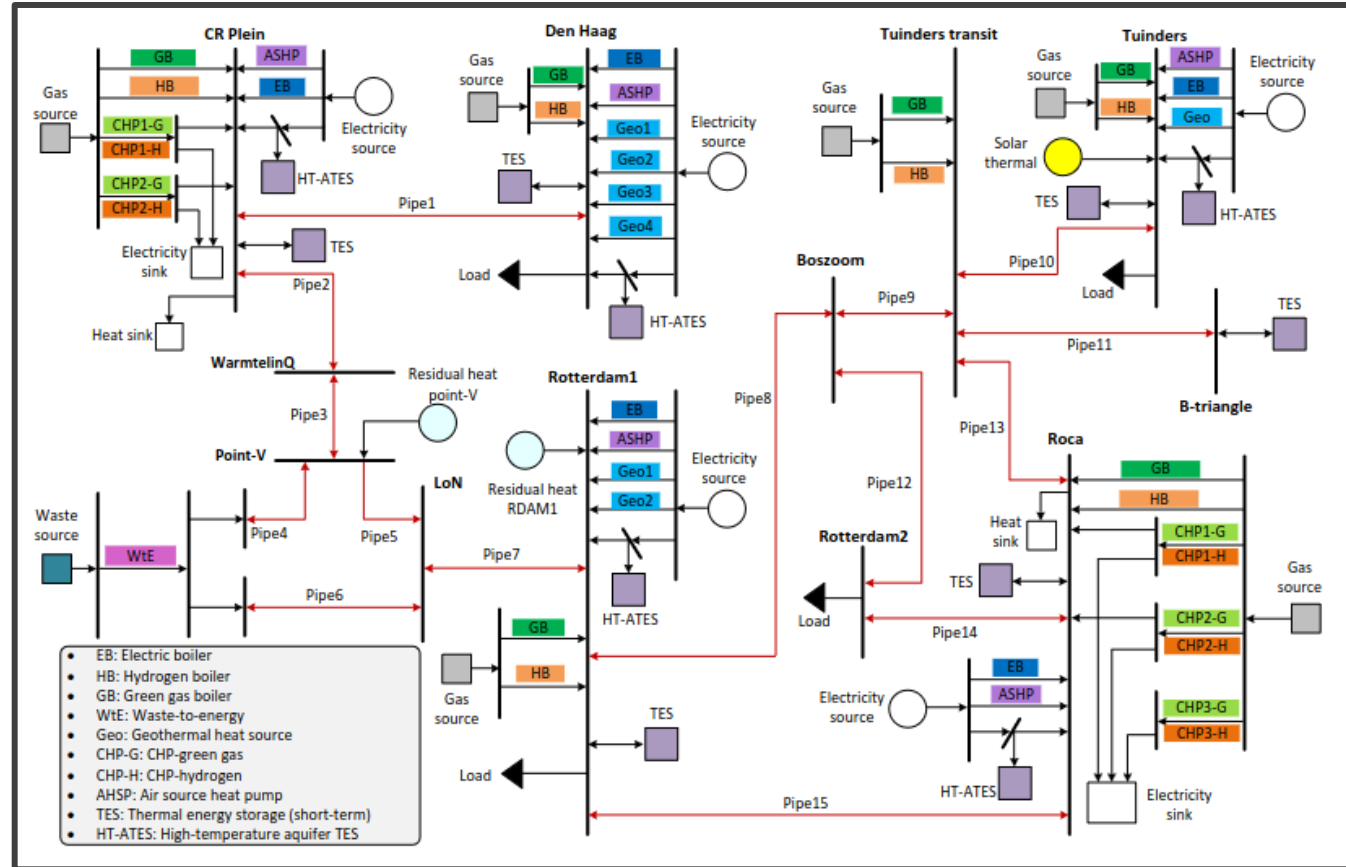
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Bos
Witteveen +

Technology configurations for decarbonizing residential heat supply through district heating and implications for the electricity network

C. Doh Dinga, F. Lombardi, R. Arkesteijn, A. van Voorden, S. van Rijn, L. J. de Vries, M. Cvetkovic

PyPSA.
MGA-onderzoek



doi.org/rc9k

Nu: MGA4All project

50-bus NL
gebaseerd op PyPSA-Eur

PyPSA. Nederlandse energiesysteem

Data tot 300-bus
binnenkort beschikbaar
(Issue#2112)

