

Assignment

Living Lab EnTranCe

Decentralised hydrogen energy systems

Client:

HydroGreenn (Jan Bekkering)

Partners (envisioned): EnTranCe, N-Tra, municipality Hoogeveen

Problem:

In the green hydrogen neighbourhood in Hoogeveen (village in the north of the Netherlands) hydrogen will replace natural gas for heating. It is not clear how a hydrogen supply chain should adapt to expected changes in supply and demand.

Description of the assignment:

The hydrogen is preferably produced from local PV and/or wind energy. Based on an existing MILP model, the predictability of hydrogen demand and adaptability of hydrogen supply deserves further analysis. A rolling horizon technique or model predictive control could be part of the analysis.

Suitable for students of the course(s):

technical/physical/operations research, e.g. EUREC EMRE

Type of assignment:

Master thesis

Assignment

Living Lab EnTranCe

Period:

What are we, and where do you find us?

The Living Lab EnTranCe is the place where students work together with teachers, researchers, the business community, governments and/or civil society organisations on complex issues. We do this at the following locations:

- Location Proeftuin, Zernikelaan 17
- Location Energy Academy Europe, Nijenborgh 6.

What do we offer?

Interesting, topical and multidisciplinary research assignments in the field of energy transition.

Space for collaboration with lecturers, researchers, lecturers and the professional field.

Guidance within the innovation workshop by theme coordinators, project leaders or experts.

Are you interested?

Then please contact us:

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