

IN-DEPTH PLANNING OF HYDROGEN INFRASTRUCTURE

with TedHy by PERSEE

IS TEDHY FOR YOU?

A wide-range of users

Are you an Industry representative using H₂ as a feedstock looking for a greener supply? Are you a Renewable energy developer looking for alternative ways to secure downstream valorisation of your energy? Are you a City or Region in a quest to decarbonisation? Or are you part of a Group of stakeholders jointly looking into a collaborative hydrogen project? TedHy is your planning assistant!

HOW CAN TEDHY HELP?

Identifying and qualifying the optimal design

TedHy facilitates the generation and analysis of optimal infrastructure pathways able to meet potential demand and connect with available energy sources. For each pathway, referred to as a scenario, the user can navigate the various result tabs covering technical, operational, economic and environmental aspects, for a thorough analysis.

HOW DOES IT WORK?

A proven methodology captured in an online process

The process begins with the creation of a quantitative and georeferenced map outlining your project's context. This data undergoes preprocessing and is processed with your main objective (Minimising, CAPEX, OPEX or LCOH, Maximising CO₂ reduction or Energy Efficiency) in TedHy core algorithms. The resolution happens in the background on our server. Results are then made accessible for all the stakeholders of the project.

WHAT'S SPECIAL ABOUT IT?

Optimisation amongst a catalogue of H₂ equipment

TedHy builds upon an extensive equipment database that originated in 2013 and has since been enriched through hands-on project experiences and ongoing literature reviews. It incorporates an advanced modeling of hydrogen infrastructure which is unique today in the industry. The core logic of TedHy is combinatorial. It picks the optimal combination of equipment available over time and space.

OUTCOME

Deciding and orientating the future course of action

Whether you're embarking on a single hydrogen project or managing a complex hydrogen supply chain, TedHy is your strategic partner in building a sustainable and economically sound hydrogen future. As the context evolves, you can easily evaluate your initial optimal plans and refine them.