

CONNECTING THE DOTS IN YOUR HRS NETWORK

with FilHy by PERSEE

IS FILHY FOR YOU?

For all stakeholders of the refueling value chain

FilHy focuses on Hydrogen Refueling Station (HRS) individually or in networks. Do you seek the best equipment to fit your refueling plans? Do you want to evaluate your own design? Do you care about the most suited supply to maximise HRS performance? Do you plan an increase in use and the need to apprehend the impact on your existing infrastructure? FilHy is for you!

HOW CAN FILHY HELP?

Underpinning refueling performance levers

FilHy contributes to reducing refill time, enhancing distributed capacity, minimizing unavailability rates, and improving overall energy efficiency. Recognizing that these objectives can sometimes be in tension with each other, FilHy supports users in achieving a harmonious balance among these critical considerations

HOW DOES IT WORK?

Connecting H2 source, HRS specifications and Fleets

The complete experience is entirely web-based. It starts with entering the design and control philosophies of a HRS, and the fleet requirements on a daily or weekly basis, which can be done by you or Persee team. Subsequently, you can simulate the refueling operations under various initial conditions. The results consist in KPIs and a detailed view of each component (compressor, storage, vehicle,...).

WHAT'S SPECIAL ABOUT IT?

Seamless refueling simulations

The core algorithm of FilHy has been fine-tuned to conduct simulations in seconds, even when examining operations with a five-second observation interval. This enables the efficient exploration of numerous combinations of fleets, hydrogen sources, HRS design configurations, and control philosophies. This efficiency facilitates the understanding of underlying dynamics and, ultimately, enables informed decisions.

OUTCOME

Progressing H2 mobility

H2 mobility, still in its infancy, will enter a path of continuous improvement yielding:

- Happy fleet operators;
- Enhanced individual HRS operations; and
- Optimized network management.