



MINERVE is an innovative P2G project aimed at addressing the key question of how to manage intermittent renewable electrical energy, being at the heart of the problem of local production of renewable electrical energy.

It is a power-to-gas demonstrator focused on the production, management and storage of renewable electricity.

Power 2 Gas: synthesis methane to "store" renewable electricity

The demonstrator project utilises the renewable (or grid) electricity to power an electrolyser to produce hydrogen which, in reaction with CO₂ in a methanation reactor, produces synthetic methane (CH₄). The CO₂ currently comes from bottles but will in the future be extracted from the fumes of the wood fired boiler room.

The methane produced is used as fuel for NGV mobility, or even as fuel in gas boilers in the boiler room.

The renewable energy sources to generate electricity include:

- 9 kWp of photovoltaics on the roof of the wood boiler silo
- 225 kWp of photovoltaics on the roof of the Polytechnique
- 20 kWe of wind power at a height of 35 m, at the entrance to the Chantrerie site

Visit schedule

10h45 to 12h00 : 14 people max

Visit language

English and French

Two visits are proposed on the morning of Tuesday 28th January. Each visit has a maximum group capacity 14 people.

Meeting point

The meeting point is in front of (please be there 10 minutes before the visit is due to start):

L'École Supérieure du Bois (ESB)

7 rue Christian Pauc

44300 Nantes

<https://www.openstreetmap.org/#map=18/47.28405/-1.51326>

Transport

Participants are invited to find their way by public transport. The site is near to the Exhibition Parc. There is a direct Chronobus (C6) from the Exhibition Parc to the site (Chantrerie stop).

Participants starting from the SNCF railway station can take the T1 tramway until the Beaujoire stop, and then the C6 until the Chantrerie stop. This route takes around 35 minutes.

