

Use cases



The AEM electrolyser is a versatile building block currently in operation in more than 30 countries and numerous applications around the world. Hydrogen from the AEM electrolyser serves as long-term energy storage, fuel in vehicles, raw material in industry or fuel for heating.

Use cases

Hydrogen's versatility is showcased with our plug-and-play building blocks. Here are a few examples:

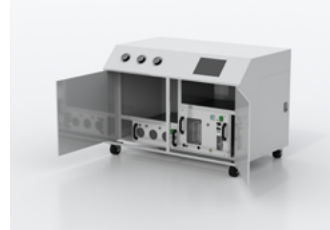


Electricity storage

France

Hydrogen keeps this refuge in the Alps operational year-round. Since 2015, it runs autonomously for up to 16 days without sunshine using a 2 kW fuel cell.

- ≡ Electrolyser: 500 NL/hr
- ≡ Storage: 5 kg



Mobility solutions

China

Enapter electrolyzers are integrated into a mobile drone refueling station. The electrolyser produces hydrogen right onsite to refuel drones that need to be in the air for long times.

- ≡ Electrolyser: 1,000 NL/hr
- ≡ Storage: 3.5 L



Power-to-Gas

Australia

Solar made hydrogen is combined with CO₂ which is extracted directly from the air to create renewable methane. Such "power fuel" can be used for heating and cooling, transport or industrial use.

- ≡ Electrolyser: 500 NL/hr
- ≡ Storage: none



Industrial solutions

Portugal

Enapter electrolyzers are being used to purify nitrogen that is contaminated with oxygen. Oxygen reacts with hydrogen to form water which can easily be dried.

- ≡ Electrolyser: 1,000 NL/hr
- ≡ Storage: none



Electricity storage

La Reunion

Only accessible by foot or helicopter, the community is energy independent with solar and hydrogen since 2017. The storage system provides 10 days of autonomy.

- ≡ Electrolyser: 500 NL/hr
- ≡ Storage: 3 kg



Power-to-Heat

The Netherlands

In June 2019, the first hydrogen project for residential heating was officially opened in Rozenburg near Rotterdam. Green hydrogen is directly used to generate heat.

- ≡ Electrolyser: 4,000 NL/hr
- ≡ Storage: none

See more Enapter use cases:
www.enapter.com