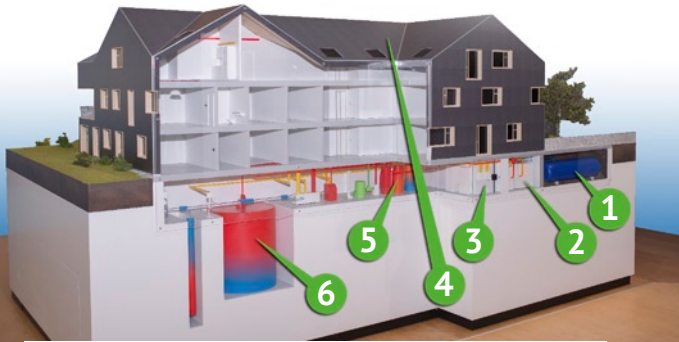


100%
Energy

Zero
Emission



Seasonal Energy Storage

- 1 Underground H₂ storage
- 2 Hydrogen production via electrolyser
- 3 Fuel Cell (Re-Energizing H₂ to electrical power and heat)
- 4 PV – Solar on roof and walls
- 5 Hot water system and heating system
- 6 Thermal energy storage

OUR PARTNER



Proton Motor Cleantech Competence

As a pioneer in fuel cell technology with over twenty years of experience, we continue to develop innovative energy solutions for the future based on our modular fuel cell stack concept. Our goal is to provide tailor-made integration of our sustainable technology in uninterruptible power supply and in emission-free drive systems, customized in line with the individual needs of our customers and partners. To achieve an economic and reliable process, we can provide you with every step from the financial feasibility study through system development and integration up to a full service package after commissioning.

Let us be your partner.

TEAMWORKER

Engineering · Integration · Service



Stationary

Automotive

Maritime

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Secure Power Supply for Energy Storage and Emergency Power Supply

Stationary

Automotive

Maritime

Fuel Cell Emergency Power Supply 5 kVA to 250 kVA

Proton Motor will deliver containerized fuel cell EPS systems with several power outputs from 5 kVA to 250 kVA.



Cooperation with Deutsche Bahn Bau Gruppe

Proton Motor provides fuel cell based emergency power supply units to DB Bahn Bau Gruppe. DB Bahn Bau Gruppe will utilize the FC EPS systems instead of diesel generator EPS systems.



Bahn Bau Gruppe

Containerized Mains Backup System 50 kVA

50 kVA fuel cell mains backup system integrated into a 20 foot HC Shipping Container:

- Output voltage: 230/400 VAC; 50 Hz
 - Output power: 50 kVA nominal
60 kVA short (15 min)
90 kVA peak (1 s)
 - Backup time w/o FC: ca. 10 min
 - Backup time with FC: ca. 12 h (200 bar)
ca. 17 h (300 bar)
 - Resistance class: RC2
- Optional: connection to external gas storage

General options:

- AC or DC
- 5 kVA to 250 kVA
- internal gas storage up to 50 kVA in one 20 ft. container
- Backsync without interruption



Solar Battery Storage

Universal backup power system with photovoltaic, grid and battery supply. Automatic operation to increase the reliability of your power supply.



OUR PRODUCT BRAND

UPS Systems

To extend backup time up to several days, the combination with fuel cell systems is possible.



PX9 1500–3000



SII/SIII



MII 400