

Smith Edison HyRange

Scope of application:

- Municipalities
- Logistics
- Airport services
- Distribution services
- Construction & engineering
- Vehicle rental



more than just fuel cells



- EMISSION-FREE
- HIGH EFFICIENCY
- INNOVATIVE CONCEPT

Main benefits

For Drivers:

- Zero emission
- Ultra-quiet operation
- Quick and easy refuelling

For Operators:

- Positive image
- Technical advantage
- Reduces carbon footprint

Partner:



Proton Motor Fuel Cell GmbH
Benzstraße 7
D-82178 Puchheim
Germany

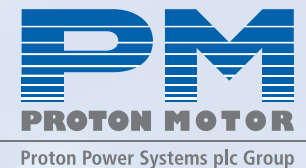
Phone +49 (0) 89 1276265-11
Fax +49 (0) 89 1276265-99
email sales@proton-motor.de
Web www.proton-motor.de

more than just fuel cells



Smith Edison HyRange

Electric vehicle with
Fuel cell range extender

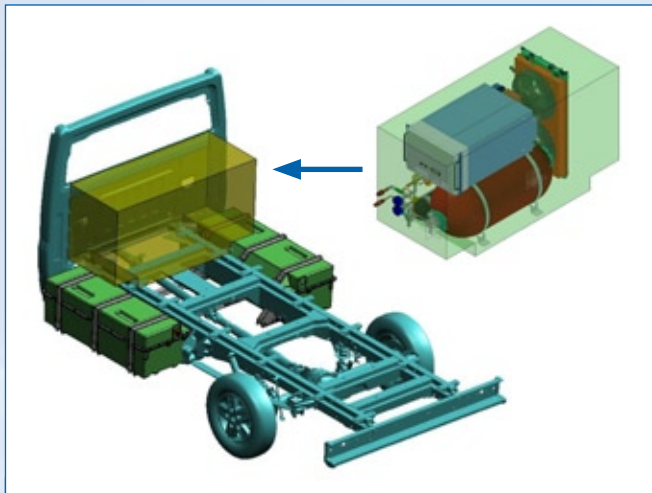


HyRange concept

Combination of benefits:

- Battery-electric vehicle manufactured by Smith Electric Vehicles on basis of Ford Transit
- Fuel cell system as range extender by Proton Motor
- Recharging of batteries during operation
- Range increase by >100%*
- Both systems absolutely emission-free

* *Dependant on hydrogen tank volume*



*Functional Prototype concept:
(to be integrated into bodywork in second step)*



Smith Edison HyRange

Technical data:

- | | |
|------------------|----------------------|
| ■ Speed | ≥ 80 km/h |
| ■ Range | ≥ 200 km |
| ■ Gross weight | 4.6 t |
| ■ Load capacity | 2.1 t (without body) |
| ■ Motor | 90 kW induction |
| ■ Batteries | Lithium-Ion ≥ 40 kWh |
| ■ Range extender | Fuel cells ≥ 5 kW |
| ■ Hydrogen | ≥ 1.8 kg |

Options:

- Different body configurations
- Right and left hand drive
- Power supply for external usage
- Air conditioning
- Larger hydrogen tank volume

Fuel cell system:

- Based on TÜV-certified PM 200 technology

