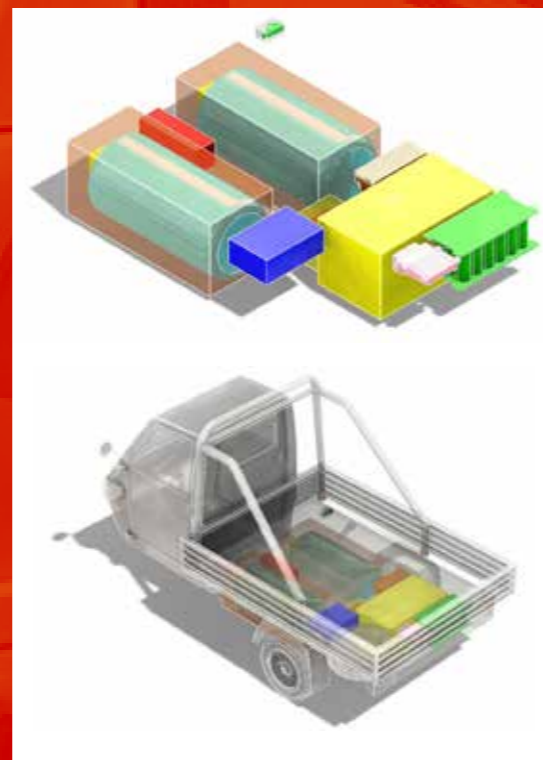


## Hydrogen Fuel Cell Powertrains for Lightweight Transportation Vehicles

### HYPOWA offers vehicle manufacturers

- a complete integrated hydrogen fuel cell powertrain (2-10 kW) assembly including hydrogen tanks ( $\geq 1$  kg) and electric motors, to power small and lightweight transportation or utility vehicles - both three- and four-wheelers
- customized powertrain solutions for specific requirements and priorities, including autonomy, power take-off (vehicle-to-grid/load) and range extender systems
- short timescale from prototype to first series - a fully road-licenced prototype of any such vehicle in less than 12 months
- the opportunity to establish supply lines with HYPOWA's high-end manufacturing partners, for all the components required
- market development for the new vehicle
- customization into a dedicated utility vehicle, for example: food truck or pop-up shop, champagne bar, silent mobile power generator for construction work or greenery maintenance



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## Cooperation Proposal: One Stop Shop, More Than Just Delivering Components

Hypowa offers a commercial collaboration to develop a new hydrogen fuel lightweight transportation vehicle, bring it to existing markets and to support vehicle manufacturers in developing new markets. Hypowa can develop the hydrogen fuel cell powertrain in close cooperation with a vehicle manufacturer, to meet the manufacturer's specific requirements and needs in less than 12 months. The prototype can be a fully road-licenced vehicle ready for series production on the vehicle manufacturer's assembly line and distribution via its dealer network. In association with a vehicle manufacturer, Hypowa and our partners can also establish supply lines in less than 12 months.

Working with Hypowa offers manufacturers the shortest time to market, top quality, and minimal

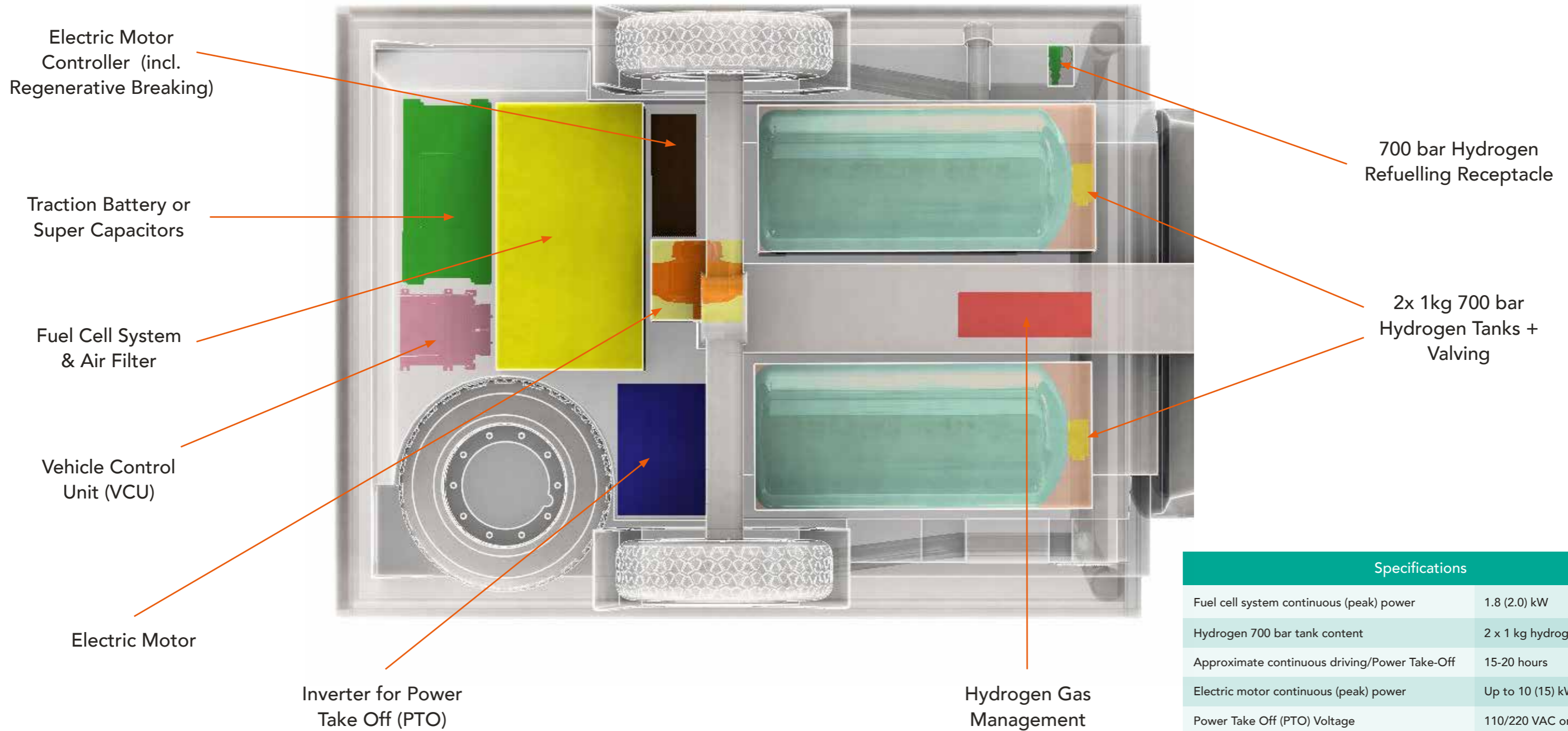
development costs. It's the most effective and efficient process for bringing a hydrogen fuel cell lightweight vehicle to the market.

Hypowa cooperates with industry partners for specialist components and services:

- Hydrogen Gas Assembly
- Fuel Cell System
- Electric Motor
- Integration Engineering
- Technology Management
- Development and Testing Facilities
- Customization and Conversion

The components selected for Hypowa powertrains are proven, off-the-shelf and reliable. Our cooperation partners are chosen for their outstanding capabilities and expertise.





Specifications	
Fuel cell system continuous (peak) power	1.8 (2.0) kW
Hydrogen 700 bar tank content	2 x 1 kg hydrogen
Approximate continuous driving/Power Take-Off	15-20 hours
Electric motor continuous (peak) power	Up to 10 (15) kW
Power Take Off (PTO) Voltage	110/220 VAC or 12/24/48 VDC
Traction Battery Peak Power (Energy Content)	Up to 10kW (up to 3.5 kWh)

