5 STEPS TO MEGAWATT-SCALE SUSTAINABLE OFF GRID EV CHARGING

THE MEGA CHARGE SOLUTION

SAFE. OFF GRID. SCALABLE.

1. **DELIVERY OF METHANOL**
   14000 Gallons = 90 MWh of Energy Stored
2. **PRODUCE HYDROGEN ON-SITE**
   Produces 1600 kg/day H2 (1 MW of Power)
3. **GENERATE POWER**
   1.4 MW Hydrogen Fuel Cell
4. **STORE/DISCHARGE**
   Expandable 500 kWH Storage with 2 MW Peak Power using ZincFive's Nickel-Zinc Batteries
5. **DC FAST CHARGING**
   Grid Forming and Grid Following AC & DC Applications

1 MW SCALABLE OFF GRID EV CHARGING

- 1 MW CONTINUOUS POWER (BASE LOAD)
- 2 MW PEAK POWER DELIVERY
- OPTIMIZED LOAD MANAGEMENT
- IMMEDIATE DEMAND RESPONSE
- DC FAST CHARGING
- EXPANDABLE 48 MWh ON-SITE ENERGY CAPACITY
- EXPANDABLE 500 kWH NICKEL-ZINC BATTERY STORAGE

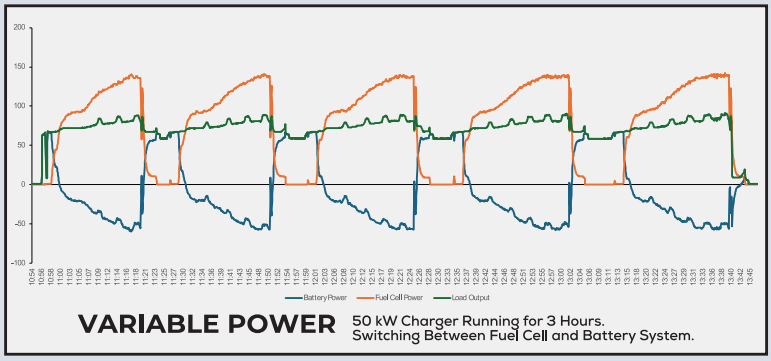
EXTREME E REAL-WORLD PERFORMANCE

System baseload power over 9 hours.

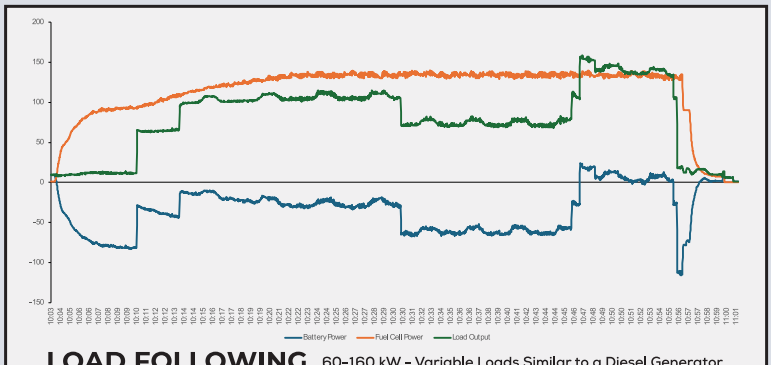
System baseload power over 12 hours.

Site powered day and night.

Atacama Desert, Chile



VARIABLE POWER 50 kW Charger Running for 3 Hours. Switching Between Fuel Cell and Battery System.



LOAD FOLLOWING 60-160 kW - Variable Loads Similar to a Diesel Generator

FOR MORE INFORMATION, CONTACT US AT KAIZENCLEANENERGY.COM OR INFO@KAIZENCLEANENERGY.COM

SAFE. MODULAR.
SCALABLE. OFF GRID.

THE MEGA CHARGE SOLUTION

POWERED BY

ADVANCED POWER & ENERGY

ZincFive

KAIZEN Clean Energy

THE GAME-CHANGING ON-SITE POWER GENERATION AND ENERGY SOLUTION THAT ADDRESSES THE CHALLENGES OF FLEET ELECTRIFICATION.

Break free from grid dependency and embrace a novel, modular approach to powering your fleet that revolutionizes energy management and provides solutions that will scale with your evolving needs.

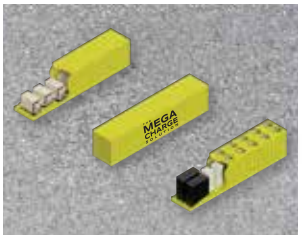
Our on-site power generation comprises methanol-to-hydrogen reformers, integrated with a fuel cell stack and high-power nickel-zinc batteries.

The modular 1 MW building block system provides:

- 1 MW of base load, generating up to 24 MWh of energy per day.
- 2 MW of peak power using nickel-zinc batteries.
- Immediate load formation – instantaneously ramps up from standby to full output.
- Load following – immediately responds to plug in and unplug of chargers.
- An extremely safe site profile, with methanol (similar safety storage characteristics as gasoline) and nickel-zinc batteries (no risk of fire or combustion).
- Rapid commissioning - less than a week following container delivery.
- All of the generation, batteries, and power electronics/balance of the system contained in two 40 ft containers plus a feedstock tank that is sized according to your use case.
- A small footprint - less than 2,000 square feet, or 0.05 an acre of land.

SMALLER FOOTPRINT | LOWER COST PER kWh
1 MW BASE POWER | 2 MW PEAK POWER

THE MEGA CHARGE SOLUTION



.05 acres required | (1/100 the space)
90 MWh energy storage
24 MWh energy production per day

VERSUS

SOLAR POWER GENERATION & LI-ION BATTERY STORAGE

10+ acres required
50 MWh energy storage
7 MWh energy production per day