

Battery Swapping

Heavy Vehicle
Battery Swapping

Electric Vessel
Battery Swapping

Mobile Battery
Swapping

Hub & Spoke
Battery Swapping

Mixed Charging &
Battery Swapping

Core Products

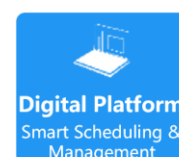
- Heavy Vehicle Battery Swapping
- Electric Vessel Battery Swapping
- Mobile Battery Swapping – Centralised charging with mobile swapping equipment
- Hub & Spoke Swapping – Centralised charging with decentralised battery swapping stations
- Mixed Charging & Battery Swapping Stations
- Power Systems - Smart AC/DC power supply, and grid interface for high-throughput swap depots
- Digital platform for real-time swap station, battery health, energy and grid monitoring and management

Capabilities

- Site assessment and system design
- Battery pack supply and swap station power system interfacing
- Battery Energy Storage System (BESS) and grid integration
- Vehicle integration
- Digital platform setup, integration and commissioning
- Equipment supply, installation and certification
- System testing and commissioning
- Operation & Maintenance services

Battery swapping is redefining fleet electrification. Faster battery swapping times (3 to 5 minutes) are enabling electric vessels and electric heavy vehicles to operate continuously on zero-emission routes, with modular swappable packs eliminating charging downtime.

Terra Sol provides complete battery swapping infrastructure, from automated heavy vehicle swapping stations that complete a swap in under five minutes, to modular electric vessel swap systems for ferries and electric harbour craft. Our solutions include platforms to manage peak grid demand, maximise battery throughput safely and give operators complete visibility over energy consumption and battery health.



Fast

Flexible

Sustainable