



# Product Brochure

Our cutting-edge technology delivers sustainable energy solutions.

## About Us

TCP Eco are proud to be industry leaders in hydrogen. For over 35 years, we've been helping businesses switch to low-emission power and lighting. Our fully managed services are tailored to your

needs, making the transition to net zero simple and efficient. We know exploring these technologies will be a new venture for many. Our team are committed to guiding you through every step.

## Eco Lighting



### Ecolite TH200

Zero-emission hydrogen fuel-cell mobile lighting tower.

- **Emissions:** none (water vapour)
- **Noise:** silent
- **Lighting type:** LED
- **Extended height:** 9.1m (hydraulic)
- **Safety:** TCP AMOSS
- **Unladen weight:** 750kg
- **Fuel capacity:** 4 Linde GENIE cylinders (20L)
- **Run time:** Up to 240 hours



The TH200 includes an optional solar panel for longer run times during sunny weather.



### Ecolite WH2

Compact local task lighting with additional hand tool power supply.

- **Emissions:** none (water vapour)
- **Noise:** silent
- **Lighting type:** LED
- **Extended height:** 3.8m
- **Unladen weight:** 180kg
- **Fuel capacity:** 1 Linde GENIE cylinder (20L)
- **Run time:** Up to 200 hours



For off-grid applications, an optional 110V AC power outlet delivers up to 2kW of power for hand tools or small equipment.



## Eco Power Equipment



### Eco GH4

Silent, emission-free power with hydrogen fuel-cell technology.

- **Weight:** 340kg
- **Rated net power:** 4kW @ 48V
- **Output voltage:** 48V
- **Rated current:** 83A @ 48V
- **Fuel consumption:** <70g per kWh



From welfare cabins to remote work sites, the GH4 is built to meet the demands of sustainable power generation.



### Eco PP60K

Silent battery and pure sine wave inverter system with solar and Eco GH4 integration.

- **Weight:** 950kg
- **Rated output:** 15kW @ 3ph
- **Output:** 230VAC 16/32A, 415VAC 32A 3ph
- **Input:** 230VAC 16A, 415VAC 32A 3ph
- **Capacity:** 60kWh



Also available with EV charger. Can work with solar panels or hybridised with hydrogen fuel cells.



### Eco CH2 Cabinet and Cage

Silent, emission free hydrogen fuel cell technology designed for off-grid applications.

- **Weight:** 60kg
- **Standby power:** 2.5kW
- **Continuous power:** 200W
- **Output:** 24VDC 200W, 230VAC 200W
- **Run time (1 cylinder @ full power):** 30hrs



Can hold up to 5 Linde GENIE cylinders (20L ea) with the cage. Integrates seamlessly with solar PV and micro-wind turbines.

## Eco Compactors and Dumpers



### Zallys Battery Dumper

Compact, emission-free dumper suitable for tight spaces and congested areas.

- **Weight:** 112kg
- **Width:** 785mm (option of 670mm)
- **Load capacity:** 500kg/250L
- **Run time:** Up to 8 hours
- **Max speed:** 5.5kph forward/4kph reverse



Silent, one-person operation. Robust yet agile design enables operatives to navigate confined spaces with ease.



### Eco Compactor AP1850E

World's first battery-operated, wireless vibratory plate with emission-free operation.

- **Weight:** 101kg
- **Width:** 500mm
- **Surface capacity:** 810m<sup>2</sup>/h
- **Hand-arm vibrations:** 4m/s<sup>2</sup>
- **Centrifugal force:** 18kN



Modular battery system and no V belt required. Reduce energy costs by up to 70% compared to gas-powered plates.



### Eco Rammer AS50E

Emission-free compaction, ideal for enclosed spaces and eco-sensitive sites.

- **Weight:** 70kg
- **Ramming shoe length:** 340mm
- **Ramming shoe width:** 280mm
- **Stroke:** 42mm
- **Percussion rate:** 680 blows/min



Parallel handle guidance reduces hand-arm vibrations. 55% lower energy costs compared to gasoline-powered rammers.

## Eco Solar PV



### Eco Solar Panel Systems

TCP Eco offers a diverse selection of solar panel systems designed to meet various energy needs.

Our products offer power outputs from 300 watts to 1320 watts, with scalable options for customers to select the best solution for their specific needs.

Whether you are looking to supplement your existing energy sources or implement a large-scale solar project, we have a range of options to suit your needs.

By providing high-quality solar panel setups, we aim to promote sustainable energy solutions and help customers reduce their carbon footprint while enjoying the benefits of clean, renewable energy.



We have a number of solar PV arrays for small to high energy requirements.

## Eco Portable Power Equipment



### LGP 2500 Power Pack

Silent, emission-free power pack designed for tunnels and confined spaces.

- **Weight:** 46kg + 15kg units
- **Rated output:** 5kW
- **Output:** 110/230VAC 22/32A
- **Welding capacity:** >20 x 4 MMA rods
- **Battery capacity:** 2.5kWh



Lightweight, modular design for easy transportation. Only mains charging required. Approved for London Underground use.

## Eco CCTV and Security



### Ecolite CCTV Tower

Reliable, off-grid security for remote or unpowered locations. Hydrogen fuel-cell powered with zero emissions, noise, or particulate pollution. Equipped with a vandal-resistant 360° pan-tilt-zoom camera, infrared LED illuminators, wireless movement sensors, and a public address system. Remote monitoring allows you to access live feeds and controls from anywhere via 3G/4G. Operates 24/7 with digital on-site recording (30-day storage).

- **Emissions:** none (water vapour)
- **Noise:** silent
- **Extended height:** 9.1m (hydraulic)
- **Safety:** TCP AMOSS
- **Unladen weight:** 750kg
- **Fuel capacity:** 4 Linde GENIE cylinders (20L)
- **Run time:** Up to 30 days



Trailer-mounted for easy installation and repositioning.



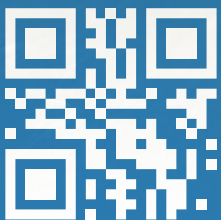
### Gatehouse

Low energy gatehouse and Eco CH2 cabinet. HYMERA fuel cell harnesses hydrogen into direct current (DC) power. Quiet, non-combustive, and emission-free, it leaves nothing but water vapor behind. Super insulated walls, roof, flooring, and double-glazed windows for maximum efficiency and thermal performance.

- **Height:** 2280mm
- **Width:** 1200mm
- **Depth:** 1200mm
- **Weight:** 330kg



Low-energy LED lights and infrared heating, controlled by a thermostat and PIR sensor.



## Get in touch

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