

Renewable Energy Viewing Deck

The Renewable Energy Viewing Deck combines solar generation with micro-wind turbine technologies; all mounted on the same frame. Designed with modularity in mind, the deck is fabricated using our inhouse Specialist Fabrication workshop, accredited to BS EN 1090 EXC3, and designed to be lifted into position on site. This design enables re-deployment as modular accommodation set ups are re-mobilised across new projects.

Specification

- 6 x 535W solar panels per deck
- 2 x 400w Micro wind turbines per deck
- Full perimeter handrail and walkway for viewing access
- Fully modular: a single deck can be installed or multiple decks for full roof coverage
- Compatible with modular stair pods for access
- Solution includes inverter and battery
- Accessible data output information

Output

SOLAR	WIND
6.5 kWh/deck/day average (Based on data to date and annual average considering seasonal variations)	Expected daily generation: 4.8kWh/day (capacity factor: 25% average utilisation)

The total estimated output is 4124.5kWh/deck/year (dependent on location)

Benefits

Installing a renewable energy viewing deck could reduce reliance on grid or generators based on average energy demand figures and reduce carbon.

- Average estimated energy use 19.6kWh/cabin/day (no BMS)
- Average estimated energy use 6.8kWh/cabin/day (with BMS)
- Reduction of C. 0876 tonnes CO₂e/deck/year (0.21233kgCO₂e/kWh)

Considerate Constructors Scheme

Carbon Reduction & Sustainability - This offering demonstrates proactive measures to reduce operational carbon through on-site renewable energy (wind & solar), supporting CCS prompts for Net Zero and environmental responsibility.

