



Australian railway station uses off-grid solar-powered integrated energy storage cabinet

 **TAX FREE**    

ENERGY STORAGE SYSTEM

Product Model
HJ-ESS-215A(100KW/215KWh)
HJ-ESS-115A(50KW 115KWh)

Dimensions
1600*1280*2200mm
1600*1200*2000mm

Rated Battery Capacity
215KWH/115KWH

Battery Cooling Method
Air Cooled/Liquid Cooled





Overview

They fitted curved solar panels atop the carriages and installed a mighty 77 kWh battery bank—about the same capacity found in a high-end electric vehicle. Imagine boarding a train that doesn't need coal, electricity from overhead wires, or diesel—but instead runs purely on sunlight. In the coastal town of Byron Bay in New South Wales, Australia, that vision has become reality. A heritage railcar, reborn with solar panels and battery power, quietly. While electric vehicles have been on our roads for some years, low-emissions transport options for residents of Byron Bay now include the world's first fully solar powered train. 6 kW of panels on the train's roof and boosted by a further 30kW of panel on the roof of the station. Byron Bay Railroad Company has restored a derelict heritage train, repaired three kilometres of railway line and a bridge and reinvigorated and consequently preserved a section of an out of action rail corridor to provide a heritage rail service linking two key Byron Bay centres. The batteries can also draw from a 30 kW photovoltaic array mounted on the railcar shed roof at the main station. But how do they really work?

And are they just a niche experiment, or the beginning of something much bigger?

What Are Solar Powered Trains?

Solar powered trains use photovoltaic (PV) panels to convert sunlight into.



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[Sunshine on Rails -- Australia's Game-Changing Solar-Powered Train](#)

Imagine boarding a train that doesn't need coal, electricity from overhead wires, or diesel--but instead runs purely on sunlight. In the coastal town of Byron Bay in New South Wales, ...

Sustainability

Byron Bay Railroad Company was awarded the 2018 Rail Sustainability award at the Australasian Rail Association Awards in recognition of the work done to re-use infrastructure and rolling stock and to ...



[The world's first fully solar-powered train left the platform in](#)

The Australian Byron Bay Railroad Company modernised a heritage train to prove that solar power can actually work for transportation. The train runs exclusively on clean energy.

Sun Train Shines New Life on Vintage Rail

From the ground, the 100-passenger, two-car train is a charming throwback, looking much like it did when it was first built in 1949. The 128 flexible thin film solar panels, capable of ...



[Byron Bay solar powered train , Clean Energy Regulator](#)

To power the train, one of the two diesel engines was replaced with two electric motors, inverters and a Lithium-ion bank of batteries. The solar panels on the carriages' roof were specially ...



[The World's First Solar-Powered Train Will Whisk You Silently](#)

Electric motors and inverters replaced one of the diesel engines. A battery bank stores energy from the custom-made solar panels at the top of the train or from the panels in the train shed



[Review on the use of energy storage systems in railway applications](#)

This review thoroughly describes the operational mechanisms and distinctive properties of energy storage technologies that can be integrated into railway systems.



[Reliable Power for Rail Projects. Off-Grid &](#)



Hybrid Solar Solutions

The rail industry can rely on Commodore Australia for a sustainable and reliable energy solution. Our systems are especially designed for remote locations to ensure continuous operation of critical rail ...



Solar Powered Trains: How They Work and Why They Matter

Explore how solar powered trains work, where they're in use, and why they're becoming a key player in the shift toward sustainable, off-grid travel.

World's first Solar-powered Train in Byron Bay signals greener future

These panels capture and store solar energy to power the train through four to five trips a day during sunny conditions. When sunlight is insufficient, the system draws from renewable energy ...





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