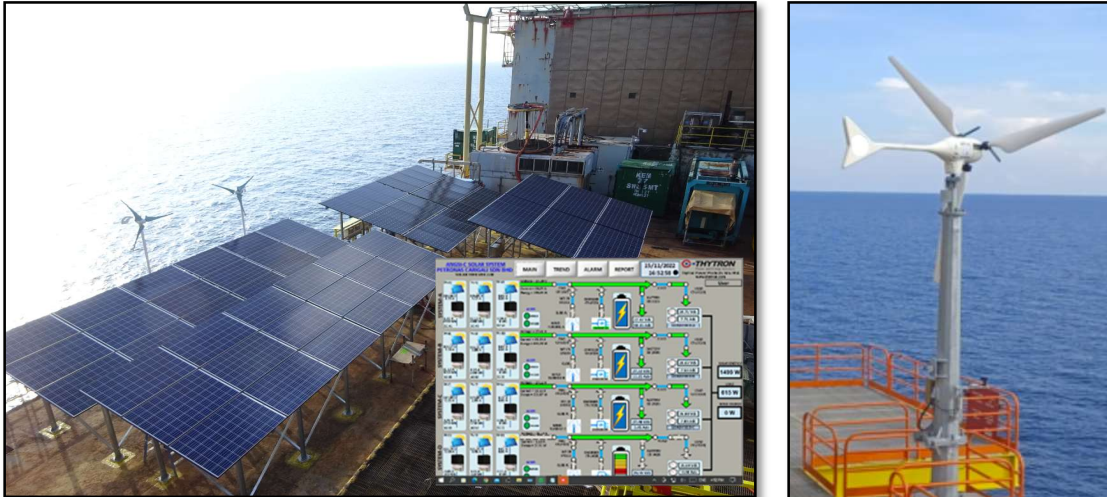


SOLAR WIND BATTERY HYBRID BACKUP FOR OFFSHORE DRILLING PLATFORM

Offshore drilling operations face relentless pressure to reduce costs, minimize supply chain dependencies, and comply with tightening emissions regulations.

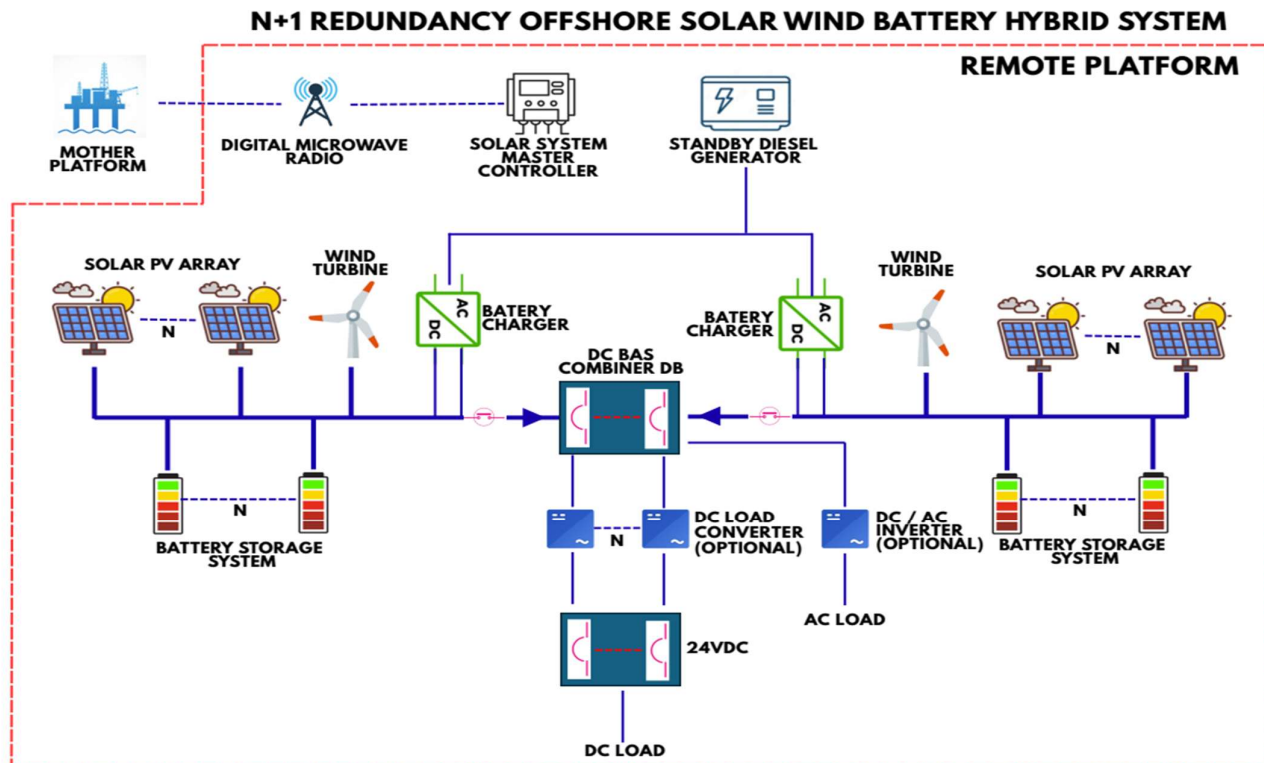


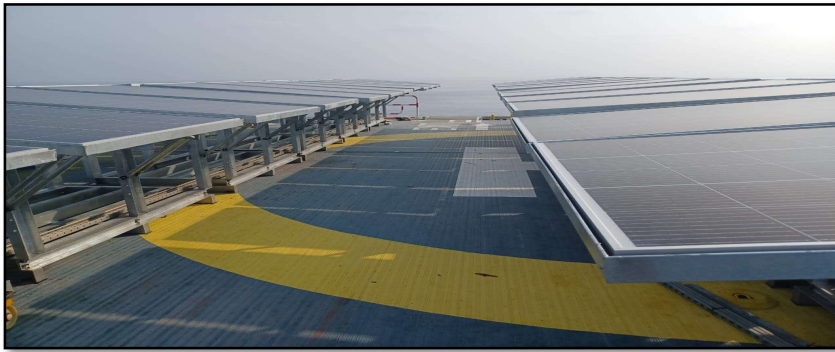
The Challenge: Power supply vulnerability compromises operational continuity.

The Solution: (hybrid power system with N+1 redundancy system).

A Solar-Wind-Battery Hybrid Backup System provides redundant power assurance, seamlessly integrated existing power management and remote communication system, eliminating single-point-of-failure risks.

Our Marine-Grade Hybrid Power System integrates solar PV, wind turbines, and battery storage with your existing generator fleet to create a more resilient and efficient power architecture.





ATEX/IECEX SOLAR PV ARRAY

Are specifically designed for Zone 1 Hazardous Areas, **photovoltaic modules** power outputs ranging from 30W to 395W.



MARINE-GRADE WIND TURBINES

From 0.4~ 5.5 KW designed to withstand cyclone-force winds. Captures energy from low starts up wind speed, operation seamlessly during day and night and storm conditions, design for survival wind speed up to 60 ~ 70 m/s.



CERTIFIED WITH ATEX AND IECEX, BATTERIES ENERGY STORAGE SYSTEM



Provides instant ride-through power during Solar, Wind energy switching, stores renewable energy for days or weeks, protecting various load from fluctuations. The battery systems enclosure manufactured in stainless steel 316L or mild steel, fitted with Solar battery cells. The special design provides lid openings, to ensure natural ventilation of Lead Acid, Ni-Cd, AGM, Gel batteries for safe hydrogen dissipation. Battery range starting from 12VDC to 500VDC max 3000Ah (C5).



THYTRON OFFSHORE SOLAR CONTROLLERS

Built with **Solar Trek** remote Monitoring Software, are designed to be installed in environments with risk of explosion, comply to with stringent safety requirement with ATEX/IECEX certified.

It contends with extreme weather, corrosive salt environments, dynamic load variations during drilling or standby.