

## PIENAAR ENERGY (PTY) LTD

# High-pressure solar-powered containerized oil platform



Standard 20ft containers



Standard 40ft containers



## Overview

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These rugged, self-contained systems integrate large solar arrays, advanced battery storage, and high-capacity fuel cells — with optional diesel redundancy when regulatory or client requirements demand it. MOBIPOWER containers are purpose-built for projects where energy demands go beyond what a trailer can deliver. In addition to custom design, we offer a range of standard free-standing kits from 100-1100W. We design and engineer custom Solar Power Systems for Oilfield Services, Gas Pipelines, Off-shore Drilling. Enter Hybrid Wind Solar Floating Platforms—an innovative solution that combines offshore wind turbines, floating solar photovoltaic systems, and onboard fuel production technology to create renewable fuel feedstock directly at sea. Despite the challenges, such as higher installation and maintenance costs due to harsh marine conditions, advancements in technology and marine-friendly designs are making. With challenges accessing offshore unmanned wellhead platforms for maintenance, reliability is key for the assets' power generation systems. In 2019, Orga BV outfitted eight of PTTEP's wellhead platforms with solar using a Morningstar TriStar™ to meet space and uptime requirements. Additionally, the container has been equipped with dual certifications.

## High-pressure solar-powered containerized oil platform

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### INTEGRATED DESIGN

EASY TO TRANSPORT AND INSTALL,  
FLEXIBLE DEPLOYMENT



### Solar Power Solutions

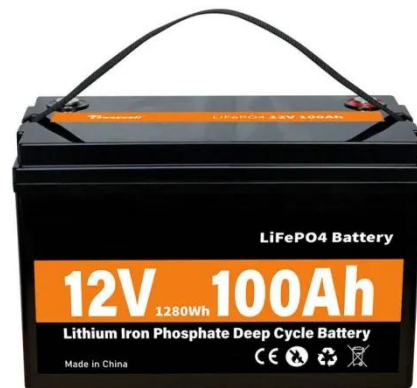
We design and engineer custom Solar Power Systems for Oilfield Services, Gas Pipelines, Off-shore Drilling, Injection Sites, Wellhead Locations and Related Oil and Gas Service Companies.

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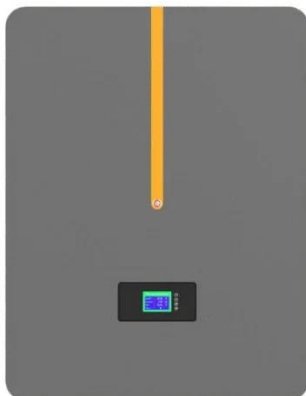
### Off-grid solar-powered containerized mobile oil platform

modular design for easy additional solar power capacity. Customize your container according to various configurations, power outputs, and storage capacity according to your needs. Lower your ...



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### Renewable energy systems in offshore platforms for

This study presents the development and analysis of an Offshore Mooring and Power Platform integrated with Platform-to-Ship systems, aimed at reducing greenhouse gas emissions in ...

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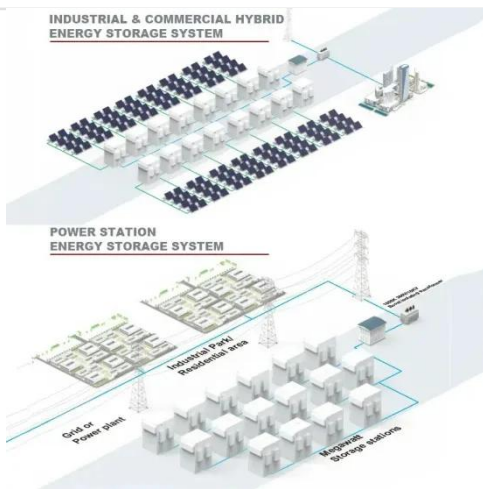
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## UNMANNED WELLHEAD PLATFORM powered by a ...

As another level of assurance, the standby diesel generator will automatically start when the battery charge level is low and will simultaneously power the platform and charge the batteries.



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## Supplying Solar Powered Offshore Containers - VG Offshore Containers ...

By harnessing solar energy, these containers can power essential equipment, lighting, and systems without emitting greenhouse gases. This aligns with the environmental pillar of ESG, ...

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## Solar Powers Offshore Oil Rigs in Southeast Asia

Offshore unmanned wellhead platforms grace the waters of Southeast Asia. These unmanned automated oil and gas assets are designed for remote operation controlled by onshore teams.



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## Off-grid containerized photovoltaic energy storage for oil ...



GSOL Energy delivers containerized solar PV systems designed for humanitarian operations, development programs and remote off-grid facilities. These systems are produced

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## Hybrid Wind Solar Floating Platforms: Marine Fuel Feedstock ...

Hybrid Wind Solar Floating Platforms are offshore structures that combine wind turbines, floating solar panels, and fuel production equipment (electrolyzers) on a single floating foundation to ...

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## MOBIPOWER Hybrid Clean Power Containers

Ready to Transition Beyond Diesel? Discover the next generation of mobile, autonomous clean power. MOBISMAART integrates solar, fuel cells, and batteries into hybrid systems that deliver where diesel ...

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## The Benefits of Offshore Solar and Hybrid Power Systems for Oil and ...

Our most recent offshore modular solar power system for a client's wellhead platform in South N'Dola is designed to effectively reduce emissions and operational costs while enhancing energy reliability. ...

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