

## Solar Energy South Africa

# Botswana seaq energy storage system



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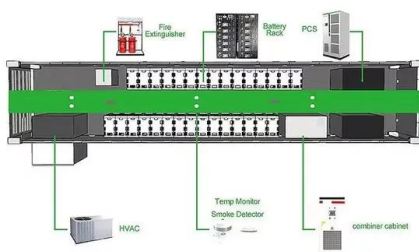


### REM has chosen Vard Electro and their SeaQ solutions for the ...

The SeaQ Energy Storage System will be used as a spinning reserve in place of generator sets, enabling the vessel to run on fewer engines with more optimal load while still maintaining the requirement for redundancy. An added benefit with batteries is peak shaving that takes the strain off the engines during big load variations by levelling the

### Vard Electro

In 2013 we launched our very own product line, SeaQ . Developed in close collaboration with our customers, our SeaQ portfolio encompasses design, integrated systems, marine electronics, and electrical systems. Microgrid converter with shaft generator and energy storage system; Hybrid thruster drives with energy storage system; Retrofit



### Vard Electro to Deliver SeaQ Energy Storage System to Atlantic ...

Vard Electro has been awarded a contract for an innovative hybrid battery power system with Atlantic Towing to be integrated on their vessel Atlantic Shrike. Atlantic Towing is the first company to implement this multiple mode application of battery technologies on a single vessel in the Canadian Offshore Oil and Gas Industry.

## Hybrid battery power system installation to reduce GHG ...

The main system components are all fitted into the self-containing deck house, while control and monitoring of the hybrid system is handled by the energy management system (EMS) that communicates with the existing control systems onboard. The SeaQ ESS includes modes for peak shaving, spinning reserve and Zero emission transit. This will enable



## [SeaQ Green Pilot](#)

SeaQ Green Pilot is a solution capable of monitoring any signal on your vessel in addition to integration with other SeaQ products. With solutions for a broad range of vessel types and operation profiles, SeaQ Green Pilot supports you to meet ...

## Vard Electro successfully installed SeaQ® Energy Storage System ...

In August 2019, the vessel was equipped with Vard Electro's SeaQ Energy Storage System (ESS) and SeaQ Shore Connection. Stril Barents is a modern dual fuel vessel, and the installation of the SeaQ ESS and SeaQ Shore Connection will ensure that the environmental impact is reduced. Fuel consumption and emissions will be significantly reduced



## First SeaQ Integrated Bridge in offshore wind sector

The hybrid battery power solution being installed



on the Rem Power and its sister vessel, due for delivery in 2024, incorporates the SeaQ Energy Storage System with 2.2 megawatts of power to store excess energy ...

## Vard Electro secures order with REM to deliver SeaQ Energy Storage

Vard Electro has secured an order with REM to deliver a complete SeaQ Energy Storage System package for a vessel retrofit as the shipowner is upgrading its fleet with hybrid power. Image Credit: REM Offshore. The newly signed contract covers a SeaQ package that includes an energy storage system, drives, energy management system, and power



## Akraberg

Akraberg is also one of the first stern trawlers outfitted with VARD Electro's SeaQ Energy Storage System. This innovative battery system can be re-charged through the permanent-magnet regenerative trawl winches. All operating in harmony with the SeaQ Power Management System for seamless integration with the hybrid diesel-electric propulsion

## Vard Electro Installs SeaQ® Energy Storage System ...

In august 2019, the vessel was equipped with Vard Electro's SeaQ Energy Storage System (ESS) and SeaQ Shore Connection. Stril Barents

is a modern dual fuel vessel, and the installation of the SeaQ ESS and SeaQ Shore ...



## World Bank supports Botswana renewable energy drive

This new World Bank project will finance the necessary grid investment and Botswana's first 50MW utility-scale battery energy storage system to enable the first wave of renewable energy generation to be smoothly ...

## Vard to fit two Simon Møkster's PSVs with hybrid battery power

To increase the company's energy efficiency and environmental performance, Simon Møkster Shipping has placed an order for SeaQ Energy Storage System with Vard Electro, which has been installing SeaQ battery technology onboard vessels all ...



## [SeaQ MicroGrid](#)

SeaQ Microgrid is suitable for deployment on all types of vessels where there is a need to connect alternative energy sources or facilitate variable speed on power sources. As a compact solution it particularly suits smaller vessels with a single cluster on ...

## Boskalis to add multipurpose DP2 vessel to its fleet

Boka Tiamat has been retrofitted with a 1,300 kW SeaQ Energy Storage System. Credit: Royal Boskalis Westminster N.V. Boskalis, the Netherlands-based company engaged in the dredging, maritime infrastructure and maritime services, has announced the addition of a multipurpose DP2 vessel, Boka Tiamat, to its fleet in January.



## Botswana to Launch First Utility-Scale Battery Energy Storage System

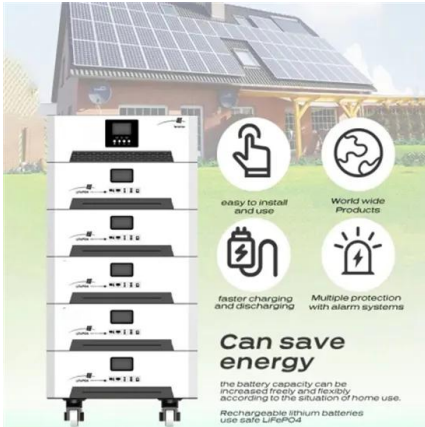
The World Bank Group has approved plans to develop Botswana's first utility-scale battery energy storage system (BESS) with 50MW output and 200MWh storage capacity. Lefoko Moagi, Botswana's minister of minerals and energy, said the finance will "support us [Botswana] to harness our rich renewable energy resources for a reliable

### ENERGY PROFILE Botswana

Energy self-sufficiency (%) 55 64 Botswana  
 COUNTRY INDICATORS AND SDGS TOTAL  
 ENERGY SUPPLY (TES) Total energy supply in  
 2021 Renewable energy supply in 2021 45%  
 48% 7% Oil Gas commodities in Chapter 27 of  
 the Harmonised System (HS). Capacity utilisation  
 is calculated as annual generation divided by  
 year-end capacity x 8,760h/year. Avoided



## Vard Electro Installs SeaQ® Energy Storage System on Stril



## Barents

In August 2019, the vessel was equipped with Vard Electro's SeaQ Energy Storage System (ESS) and SeaQ Shore Connection. Stril Barents is a modern dual fuel vessel, and the installation of the SeaQ ESS and SeaQ Shore Connection will ensure that the environmental impact is reduced. Fuel consumption and emissions will be significantly reduced

## Botswana

To create a more enabling environment, the GoB set up an energy regulator, the Botswana Energy Regulatory Authority (BERA), which began operation in September 2017. This has sparked interest in renewable energy development within the private sector. Botswana also has wind and coalbed methane potential that have not been fully explored.



## Botswana to launch first utility-scale battery energy ...

The World Bank Group has approved plans to develop Botswana's first utility-scale battery energy storage system (BESS) with 50MW output and 200MWh storage capacity. The World Bank will support the 4-hour ...

## Siem Offshore orders SeaQ ESS from Vard Electro for vessel retrofit

The supply package for the Siem Offshore subsea construction vessel will consist of a Vard Electro SeaQ Energy Storage System (ESS), two battery packs and a DC link. Installation is scheduled for early 2022 ahead of the ship carrying out work in the wind sector. with control



and monitoring of the battery storage solution handled by Vard's



## Botswana Unveils \$78M Solar Plant for a Greener Future

Botswana is set to transform its energy landscape with a \$78M solar plant in Jwaneng. Discover how this project will drive sustainability, create jobs, and shape the future of clean energy. To address this issue, the government is exploring the integration of battery storage systems. These systems can store excess solar energy during peak

## Vard Electro to Deliver SeaQ Energy Storage System to Atlantic ...

By utilizing its long experience as a system integrator, Vard Electro will deliver a containerized energy storage system for hybrid battery power. Supporting Atlantic Towing's goal of reducing their carbon footprint the SeaQ Energy Storage System (ESS) will enable decreased fuel consumption and carbon emissions.



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