

HBL Wire

Application and Project News

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Issue 3

In this edition of our newsletter, we introduce you to some of the key projects that HBL has recently supplied.

CORAL PROJECT FPSO, Korea

HBL has successfully executed the Coral FLNG project through our PE Partners Vertiv and Technip FMC, France a global leader in subsea, onshore/offshore, and surface projects. The critical backup valve regulated nickel cadmium batteries have been delivered to Samsung Heavy Industries Co. Ltd, shipyards in South Korea in record time. The project was planned and executed meeting all the deadlines - ensuring that the batteries have been installed without delay on the 260,000 ton vessel.

The Coral Project will be producing in the Mozambique Channel for owners "ENI". Such a critical project demanded batteries of the highest quality and reliability. Along with the quality – project management was key in the delivery phase. Building the world's largest FPSO is a mammoth task – everything must be delivered on a "just in time" basis to ensure no knock-on delays are experienced in construction.

The batteries themselves are installed in specially designed racks to allow safe operation at sea.

"Nickel cadmium batteries are often the choice when total reliability is required" commented Preeti Maheswari, HBL Export Sales Manager "HBL has significant experience in the oil and gas sector – Coral is the second large FPSO trusted with our batteries".

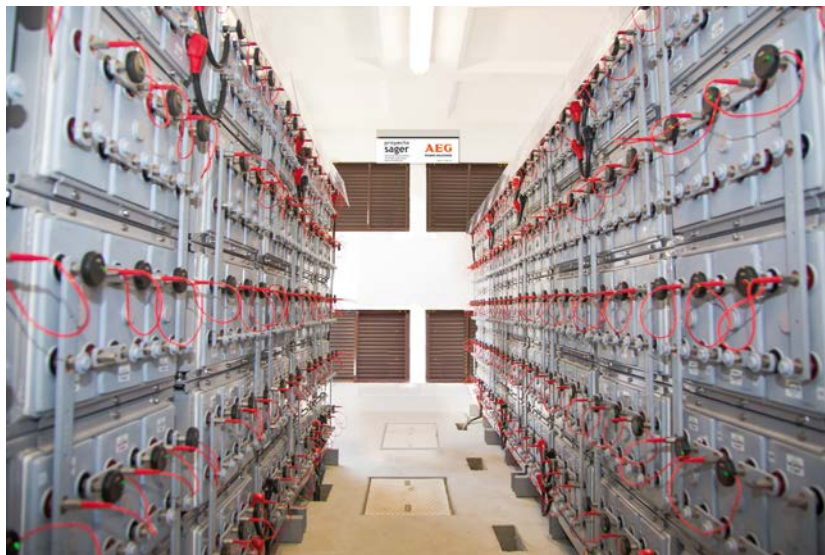


SAGER PROJECT, Spain

Energy storage is one of the hottest topics in the world today. The shift from fossil fuels to alternative energy sources such as solar and wind generation requires storage of energy in the grid. This allows utilities to manage demand at night and when wind speeds drop. HBL has significant experience in “off grid” solar sites – and has now successfully deployed a major “on grid” system for Iberdrola in Spain.

It is an on-grid battery storage system to manage peak demands and seamlessly integrate the utilities renewable energy sources with existing networks. In the SAGER project, the station is designed to be connected to the grid, to store energy (0.6 MWh) during low demand time and inject it to the grid at peak demand. HBL Tubular Gel lead-acid batteries have been customized to fit the purpose and have been selected for their ability to tolerate repeated cycles, moderate cost and long life.

The batteries are installed with a real time monitoring system perfectly matched to the AEG supplied grid tie inverter systems.



ADNOC BAB INTEGRATED FACILITIES PROJECT- Oil and Gas Project in the UAE

HBL has delivered advanced valve regulated nickel cadmium batteries to EPC contractor **CHINA PETROLEUM ENGINEERING & CONSTRUCTION CORPORATION**, to become part of ADNOC ONSHORE' S major project in 2019 & 2020 . The biggest challenge was the batteries had to function in an extreme temperature with long life. This was a time bound, ambitious project in Abu Dhabi – HBL logistics ensured on time performance for smooth installation. Nickel cadmium batteries continue to be the battery of choice in high temperature environments – to ensure they work over the operational life.

Railways in Germany – Rhine-Ruhr Express

HBL has supplied complete battery and vehicle box systems to exacting German standards for the new RRX fleet of trains built in Germany. These trains will operate high density commuter routes in and around Dusseldorf – they are already operational on several routes.

Rail vehicles are a punishing application for vehicle components and batteries alike. They are exposed to shock, vibration, temperature extremes and complex duty cycles. Through all of this total security is required for passenger safety. HBL has built a strong reputation for supplying the rugged battery systems required in the rail environment. Our experience in India, Europe and the USA in rail applications has seen key OEM's rely on HBL to provide the engineered systems with the reliability demanded – and with commercially attractive conditions.

HBL designed, tested and manufactured the boxes and the VRLA Monobloc batteries for Siemens – responding to the complex, demanding specifications and European rail standards for safety and car body welding. HBL is certified to EN/ISO3834-2 and EN15085-2 for welding of railcar components.



Data Center in the USA trusts HBL- VRLA Batteries

HBL is a leader in large format 2V VRLA batteries. Our products are built to last, have UL recognition and offer seismic certifications. This has made us a natural choice for a key government data center in the USA. This was two parallel 240V 1250 Ah batteries which replaced a flooded battery bank previously in place. From the customer's perspective we used less than ½ the space of the older battery, eliminated the threat of spills and the concerns with ventilation. Our product also eliminated the need for watering cells and significantly reduced maintenance requirements.

HBL meets or exceeds national standards – and all of our batteries are engineered with IEEE485 sizing methodology.

HBL is able to offer our US customers local engineers from our subsidiary in Connecticut, USA. We ensure we can undertake application engineering locally and provide the reassurance of availability of spare parts and product support.



About HBL

HBL is a 43 year old research led Indian company listed on the Indian stock exchanges. We design and manufacture the world's widest range of specialized batteries and related electronics. We supply customers in the telecoms, industrial, military, railway, utility and UPS markets worldwide. We are able to supply products from standard ranges and to provide customized designs for challenging projects. We would be pleased to hear from you..... For more information please visit our website www.hbl.in

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