

AMS & Exhaust Gas Monitoring for HLV Svanen

Project specifications

type

Heavy Lift Vessel

class

Lloyd's Register, 100 A1 - Crane Pontoon

built

Grootint, The Netherlands 1990 Refit 2012

lifting capacity

8,700 Tonnes

hoisting height (above deck)

76 m

gross tonnage (DWT)

13,608

Customer references



Project description

HLV Svanen was originally designed by Ballast Nedam for the construction of the mega-structure 'Storebaelt Bridge', a 18 km long bridge which links the Danish islands Fyn and Sjælland. The bridge's pre-fab elements were so large and heavy that a floating crane was needed. To meet the heavier demands for the Canadian Confederation Bridge, HLV Svanen was enlarged and its lifting capacity further increased to an impressive 8,700 tonnes.

DeltaMACS II solution for new wind farms

In 2014 Van Oord acquired HLV Svanen. Although originally designed for assembling prefabricated bridges, this self-propelled catamaran is equally at home in new wind farms, positioning the huge submerged monopiles on which the turbine towers stand. Its lifting capacity is more than sufficient for today's monopiles, which weigh up to 600 tonnes, and its massive dimensions guarantee a stable platform for offshore ramming work.

To be ready for a second life, this time in the construction of wind farms, Ballast Nedam has requested CSI to upgrade HLV Svanen to the latest DeltaMACS system, including:

- Alarm & Monitoring
- Exhaust Gas Monitoring
- Trending

3e Industriestraat 25J
3133 EJ Vlaardingen
The Netherlands

tel +31 10 435 8888

email info@csi-systems.nl

website www.csi-systems.nl



Stable, reliable and safe

Our DeltaMACS II system provided for additional read-out stations, easy-to-install extensions and changes that make it possible to connect new equipment aboard, and applications for more hardwire and communication signals as needed. Since DeltaMACS II has a modular set-up, we only needed to install those modules that were essential to Svanen's operations, providing a cost-effective solution as well.

For example, our upgrade did not include an anti-heeling / ballast management system. Due to the incredible stability of HLV Svanen no ballast is required when hoisting loads, and the calmer sea between the ship's two floats makes for any CSI system maintenance.

Because the ship has basic rigging, a large capacity as well as redundancy, the installation platform is stable and extremely reliable. Over the last few years, the HLV Svanen has not been out of action for a single day of repairs.

'Nearly one hundred foundations have been laid, without any vessel downtime. That's very good news for us and for our customers, because offshore time is expensive,' says Van Bergen (Director Ballast Nedam Offshore).

