



## Marine

### Case History

Diving Support Vessel *Seven Atlantic*

#### Where:

Launched at the IHC Merwede yard in Hardinxveld Giessendam, Netherlands. Operating in the North Sea based in Aberdeen, Scotland.

#### Specified:

6 x **AvK** DIG 156 AC generators and 1 x **AvK** DSG 86 AC generators

#### Purpose:

Diving support vessel for saturation and air diving support work

### **AvK** Provides 17MW of Power for Diving Support Vessel

Seven Atlantic, the diving support vessel was designed by IHC Merwede Offshore & Marine in collaboration with its owner Subsea 7 and the maritime engineering company Bakker Sliedrecht. Its power is generated by 6 x **AvK** DIG 156 synchronous generators from Cummins Generator Technologies, specified by Bakker Sliedrecht. The 6 x **AvK** DIG 156 generators are backed up with 1 emergency **AvK** DSG 86 generator.

Being one of the most advanced and most capable diving vessels in the world, Seven Atlantic contains a broad range of diving and ROV (Remotely Operated Vehicle) equipment and a 120t crane for subsea on board. She also features a 24-man saturation diving system rated to 350m depth, twin diving bells orientated port and starboard with two hyperbaric lifeboats.



Fully assembled generator-set inside the ship



Diving support vessel "Seven Atlantic"

With a length of 145m and a breadth of 26m it is one of the largest diving support vessels worldwide. Bakker Sliedrecht, who is the world leading engineering company for complete electrical systems on high-engineered ships, was responsible for the delivery of the generators, generating sets and the emergency generator, the entire electrical installation on the vessel, the main switchboards, various frequency drives and propulsion motors, the motors for the thrusters and several rotating converters.

The 6 x **AvK** DIG 156 diesel generators on Seven Atlantic are divided over three engine rooms and have a maximum output of 3,600kVA, a speed of 720rpm, a voltage of 6,660V and a frequency of 60Hz. The emergency generator **AvK** DSG 86 has a maximum output of 1,875kVA, speed of 1,800rpm, voltage of 440V and a frequency of 60Hz.

This is only one of many projects where Bakker Sliedrecht have specified **AvK** generators. The reputation for quality and reliability, coupled with outstanding technical support made **AvK** and Cummins Generator Technologies the logical partner for Bakker. Seven Atlantic's sister ship, the Seven Pacific, also part of the Subsea 7 fleet, features 5 x **AvK** generators providing again 17MW of power, is also now fully operational.



*Cummins Generator Technologies has been partnering with Bakker to provide industry leading **AvK** generators for many years. This partnership provides dedicated technical support to ensure that Bakker Sliedrecht selects the right product to meet their needs.*

For more information on Cummins Generator Technologies' **AvK** range of synchronous AC generators visit [www.cumminsgeneratortechnologies.com](http://www.cumminsgeneratortechnologies.com)