

PROJECT INTRODUCTION *IRM Oosterscheldekering*

The Oosterscheldekering (English: Eastern Scheldt storm surge barrier), between the islands Schouwen-Duiveland and Noord-Beveland, is the largest of the thirteen ambitious Delta Works series of dams and storm surge barriers, designed to protect the Netherlands from flooding from the North Sea. Vriens Diving (former DCN) was one of the contractors who helped with the construction of the barrier ([click here](#)). The barrier requires high maintenance, and the area is challenging due to its high water currents. DCN was contracted from 2013 until now for the inspection, repair and maintenance of the barrier.

Discipline

Inspection Repair & Maintenance (IRM)

Clients

Van der Velde, Van der Heide, Rijkswaterstaat



OUR EXPERTISE

- Air and Sat Diving
- Hyperbaric / Wet Welding
- ROV Operations
- DSV Supply
- Subsea Engineering
- Subsea NDT IRM
- Creating Dry Space UW
- Underwater Concreting



DCN AT A GLANCE

<p>OPERATIONS</p> <p>Worldwide with a focus on North Sea, WAF, UAE and SE Asia.</p> <p>Offices in the Netherlands (headquarters), UK, Germany, Abu Dhabi and Kuala Lumpur. Bases in the Netherlands, Abu Dhabi and Singapore.</p>	<p>CERTIFICATION</p> <p>ISO 9001 – 2015, ISO 14001 – 2015, ISO 45001:2018. SCC / VCA** FPAL (Verified) IMCA In-water Survey Certification</p>	<p>HSE</p> <p>Strong dedication on ZERO harm to people and environment.</p> <p>LTIFR - 0 (IMCA 0,42) TRIR - 0,72 (IMCA 1,67) FAR - 0 (IMCA 0,93) Env. 5L - 0 (IMCA N/A)</p>	<p>PEOPLE</p> <p>90 FTE's including 32 supervisor / divers. Flexible group of core freelance personnel. Focus on inhouse development, knowledge sharing / training / lessons learned.</p>

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PROJECT

IRM
Oosterscheldekering

LOCATION

Oosterscheldekering,
Netherlands

WATER DEPTH

Ranging from 5 - 28
meters

PROJECT DURATION

2013 - till date

VESSEL & System

Mobile Dive Van,
SCUBA Replacement
Unit on dive boat
(Hudson), Dive
Support Vessel
(Survey Boat) with
mobilized Air Dive
Spread



SCOPE OF WORK

The scope is, but not limited to the following elements:

- Development of Diving HSE and operational Procedures
- Managing permit to work systems
- Inspection, including Ultra Thickness measurements and Cathodic Protection Measurements
- Sensor measurements and replacements.
- General Visual Inspections
- Subsea Concrete Repairs
- Marine growth removal with H.P. Waterjetting
- IRM on anchor piles used for major construction vessels to anchor on (e.g. for installation of large and heavy prefab elements onto the barrier).
- Salvage of sunken objects near the area.
- Final Reporting to the client.



PROJECT ACHIEVEMENTS

- ✓ **ZERO LOST TIME INJURIES**
- ✓ **NO ENVIRONMENTAL SPILLS**
- ✓ **WORKING IN CHALLENGING CONDITIONS WITH A HIGH SAFETY PERFORMANCE**
- ✓ **SPECIALIZED TRAINED PERSONNEL TO OPERATE AND WORK IN THE AREA**
- ✓ **SATISFIED CLIENTS**