

# OFFSHORE SUBSTATIONS

TRANSPORT, INSTALLATION AND INTEGRATED SOLUTIONS

seaway<sup>7</sup>

35+ OFFSHORE SUBSTATION INSTALLED

TOPSIDE INSTALLED UP TO 14,000 TONNES

COLLABORATION WITH CLIENTS TO SHAPE  
DESIGN FOR MARINE INSTALLATION

With over a decade of proven delivery, Seaway7 is among the industry's most experienced contractors for offshore substation installation (OSS). Our track record spans major HVAC and HVDC projects across the UK, Germany, the Netherlands, Denmark, Belgium and Poland. This includes topside lifts of up to 3,960 tonnes and float-over operations of up to 14,000 tonnes, as well as extensive experience across jacket and monopile foundations, bringing together strong engineering capability and proven marine execution to deliver today's large-scale offshore substations.

## OUR CAPABILITIES

- **Transport and installation:** offshore HVAC and HVDC substations using lifting or float-over installation methodologies.
- **Design and engineering:** early-stage engagement to optimise design for vessel operability and interface.
- **EPCI delivery:** full Engineering, Procurement, Construction, and Installation of OSS substructures.
- **Logistics:** heavy transportation services for topsides and foundations
- **Integrated solutions:** end-to-end delivery across the offshore wind value chain.



## EARLY ENGAGEMENT

### OPTIMISED CONCEPTS FOR COMPLEX INSTALLATIONS

SylWin Alpha set a new benchmark in offshore installation with the first topsides float-over in a harsh North Sea environment. The jacket, weighing 7,000 tonnes, was equipped with buoyancy tanks and positioned on a submersible barge. After lift-off from the barge, the jacket was carefully lowered to the required depth, allowing the *Seaway Strashnov* (max. crane capacity 5000mt) to lift it clear and dynamically position it for installation.

This innovative approach, backed by meticulous preparation and precise execution, demonstrated industry-leading capability, technical innovation and safe delivery in challenging conditions.



### EARLY COLLABORATION IN PRACTICE

**On Arkona:** Close collaboration enabled a topside designed for efficient installation - ensuring alignment with both client requirements and operational limits.

**On Burbo Bank:** Working in shallow water with significant tidal variation, we collaborated during early design phases to develop a substation structure that maximised future capacity while remaining within lifting limits.

**On Baltica 2:** Early planning for the transportation of the four HVAC OSS topsides from Vietnam to Poland enabled the use of our Heavy Transport Vessels (HTVs), bringing efficiency and flexibility. Execution commenced in 2026.



## PROJECT HIGHLIGHTS

PROJECT	CLIENT	T&I SCOPE	WEIGHT	VESSEL(S)	YEAR	KEY FEATURES
SylWin Alpha, DE	TenneT TSO GmbH	Jacket with piles + HVDC OSS float-over	Jacket 6,746 t Topside 14,000 t	<i>Seaway Strashnov</i>	2014	First North Sea Float-over, heaviest jacket
Dudgeon, UK	Dudgeon Offshore Wind Ltd. (Equinor)	Jacket with 4 suction buckets + HVAC OSS	Jacket 1,381 t Topside 1,778 t	<i>Seaway Strashnov</i> & <i>Seaway Yudin</i>	2016	Suction bucket jacket, integrated installation with foundations
Burbo Bank Ext., UK	Dong Energy Wind Power A/S (Ørsted)	Jacket with piles + OSS	Jacket 984 t Topside 2,224 t	<i>Seaway Yudin</i>	2016	Shallow water, tailored topsides design
Arkona, DE	AWE-Arkona Windpark Entwicklungs GmbH (RWE, Equinor)	Jacket with piles + HVAC OSS	Jacket 1,136 t Topside 3,895 t	<i>Seaway Strashnov</i>	2017-18	Tailored topside design
East Anglia ONE, UK	East Anglia ONE Ltd. (Iberdrola)	Jacket with piles + HVAC OSS	Jacket 2,370 t Topside 3,960 t	<i>Seaway Strashnov</i>	2018	Heaviest OSS topsides
Triton Knoll, UK	Triton Knoll Offshore Wind Farm Ltd. (RWE)	Monopile with TP + HVAC OSS x 2	Monopile 677 t Topside 1,206 t	<i>Seaway Strashnov</i>	2020	Integrated OSS and foundations scopes
Baltica 2, PL	Elektrownia Wiatrowa Baltica-2 sp. z o.o. (Ørsted, PGE)	HVAC OSS x 4 + Main Support Frame	Topsides 3,500 t	<i>Seaway Strashnov</i> + HTVs	2026	Integrated HTV and T&I scope
BC-Wind, PL	C-WIND POLSKA SPÓŁKA Z O.O (Ocean Winds)	OSS TP + HVAC OSS x 1	Topside 1,950 t	<i>Seaway Alfa Lift</i>	2027	Integrated WTG FOU and OSS scope