

# Offshore Substations

In July 2002 Bladt received its first order for delivery of an offshore substation to the Nysted Offshore Windfarm in Denmark, and in 2006 Bladt received additional two orders for offshore substations, one for Lillgrund Offshore Windfarm in Sweden, and one for the Q7 Wind Power Plant in the Netherlands.



## Nysted Offshore Windfarm

Client	SEAS Distribution AmbA
Type of contract	EPCI
Weight	670 tonnes
Deck area	805 sqm.
Height	25 metres above sea

## Lillgrund, Sweden

Client	Siemens Wind Power A/S
Type of contract	EPC
Weight	650 tonnes
Diameters	22 metres
Height	22 metres above sea

## Q7, The Netherlands

Client	Van Oord Dredging and Marine Contractors B.V.
Type of contract	EPC
Weight	650 tonnes
Deck area	880 sqm.
Height	30 metres above sea



The substation for Nysted Offshore Windfarm gathers electricity from 72x2.3 MW wind turbines. The electricity is lead from the wind turbines to the substation by 33 kV sea cables and from the substation to shore by a 132 kV sea cable.

## Lillgrund Offshore Windfarm

The electricity from 48x2.3 MW wind turbines will be gathered in the substation. The electricity will be transported from the wind turbines through 33 kV sea cables to the substation and from the substation to shore through a 132 kV sea cable.

## Q7 Wind Power Plant

The substation for Q7 gathers the electricity from 60x2 MW wind turbines. The sea cables to the offshore substation are 22 kV cables, and the sea cable to shore is a 132 kV cable.



## Nysted Offshore Windfarm

The contract consisted of fabrication and installation of a complete substation ready for offshore installation.

