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Installation of Foundations for Offshore Windturbines at Horns Rev

Organization

- Mobilisation Buzzard
- Work Cycle
- Foundation Works
- · Monopiles, history and future

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1 Sailing to Esbjerg	
2 Move alongside and jack up	
3 Load piles and radar reflectors	16 hrs.
4 Jack down, remove moorings and attach tugs	
5 Sailing	
Piling Cycle 1	
6 Temporary location jack-up	
7 Running anchore wires	
8 Jack down and winch to location	
9 Jack up and preload	
10 Remove sea fastenings	
11 Boom up and attach uppender	
12 Lift pile and transfer to gripper	
13 Attach to hammer, place on pile and remove up en	
14 Piling	10 hrs.
15 Remove hammer and seafasten	
16 Lift and place radar reflector	
17 Sea fasten crane	
18 Jack down and tighten anchore wires	
19 Winch to temporary location	
20 Jack-up at temporary location	
21 Disconnect anchores haul in wires, move anchors	
22 Jack down	

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	Jack down and tighten anchore wires Winch to temporary location	
	Jack-up at temporary location	
	Disconnect anchores haul in wires, move anchors	
	Jack down	

Work Cycle Buzzard

- Optimum 36 hours for 2 piles
- First pile in place 31st of March 2002
- Last pile in place 1st of August 2002
- Total 4 Months, 122 days, average
 - 1,5 day (36 hrs) for each pile
 - Examples
 - Due to weather, period June 22 July 3 > waves over 1 meter, no production.
 - Period July 4 July 17 > 16 piles in 14 days

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