



DDC

DUTCH DRILLING CONSULTANTS

Project references



The foundation for innovation





COMPANY PROFILE

Dutch Drilling Consultants (DDC) is specialized in large diameter drilling. To execute the drillings we have a fleet of different types of pile top drilling rigs. We drill from about 0,5 meter up to 7 meter. We already designing to drill 8 meters and more. Drilling is our core business, but we do also consultancy and engineering of drilling projects.

PROJECTS

DDC is active in different markets varying from onshore, near shore to offshore. For example we drill foundations for offshore wind farms, bridges, jetties, oil/gas platforms and ventilation shafts for tunnels. We have executed our projects all over the world, from the artic to the tropics. In al kind of soil. In this brochure we give some examples of our prestigious projects.

renewables

- Tidal systems
- Wind farms

offshore

- Oil and gas structures
- Decommissioning

nearshore

- Harbors
- Jetties
- Dry docks
- Dolphins

onshore

- Civil constructions
- High rise buildings
- Riser/ventilation shafts

Market leader drilling offshore wind farms foundations



Dudgeon

Client:

Seaway Heavy Lifting

Location:

North Sea, UK

Date:

April 2016 – August 2016

Drill rig and foundation type:

PBA 1450, OWF monopole

The 402MW Dudgeon offshore wind farm is located some 20 miles off the coast of the seaside town of Cromer in North Norfolk.

For foundation of the wind turbines monopoles are used. The installation will be done by Seaway Heavy Lifting using the vessel Oleg Strashnov.

DDC used the PBA 1450 drill rig for the project. The drill rig is a Self Supporting Drilling Unit (SSDU). That means that all the equipment is on the platform to carry out the drilling operations.

The equipment stood standby on our yard in Ridderkerk. In case of refusal our equipment could be picked up directly from the quay. See our drill PBA 1450 on the quay next to the jacket on the two pictures left below.



Burbo Bank and Racebank Substations

Client:

Dong Energy

Main contractor:

Seaway Heavy Lifting

Location:

Irish Sea and North Sea, UK

Date:

July 2016 and August 2016

Drill rig and foundation type:

PBA 936, Jacket piles

DDC delivered the PBA 936 with landing platform and for each jacket a BHA. The equipment was loaded on board of the Seaway Heavy Lifting vessels. For Burbo the Stanislav Yudin was used and for Racebank the Oleg Strashnov. The equipment was on board in case of refusal of the jacket piles.

On the pictures left you see the Race bank jacket. Our drill rig PBA 1450 is standing on the quay left of the jacket.



West of Duddon Sand (Wods)

Client:

Dong Energy and ScottishPower Renewables

Location:

Irish sea, UK

Date:

September 2013 – December 2013

Drill rig and foundation type:

PBA 1450, OWF monopole

The West of Duddon Sands Offshore Wind Farm is located in the East Irish Sea approximately 14 km from the nearest coast on Walney Island, Cumbria.

The project consist of 108 wind turbines with a total installed capacity of 389MW and ensure clean renewable energy for more than 300,000 UK households.

DDC used the PBA 1450 drill rig for the project. The drill rig is a Self Supporting Drilling Unit (SSDU). That means that all the equipment is on the platform to carry out the drilling operations.



Baltic 2 Offshore Wind Farm

Client:

EnBW Baltic 2 GmbH

Main contractor:

ArGe Baltic 2 Foundations

Location:

Rostock, Baltic sea, Germany

Date:

September 2013 – December 2013

Drill rig and foundation type:

PBA 936, OWF monopile, ø6500-4600mm

The Baltic 2 project consist of 41 jackets en 39 monopiles. DDC was standby for the event the monopiles could not reach the final depth by vibration. Due the different depth of water, each monopile is produced with different dimensions. There are in total 5 different diameters. The engineering department of DDC designed a Bottom Hole Assembly which could drill all of the different diameters. For this project we used the PBA 936.

Baltic 2 is the first project where they used XXL monopiles. The biggest pile was 73,5 meters long and weighted 930 ton.



Samsung Wind Turbine prototype

Client:

Samsung Heavy Industries

Location:

Fife Energy Park, Methill Scotland

Date:

May 2013 – July 2013

Drill rig and foundation type:

PBA 936 jacket turbine, PBA 815 jacket catwalk

Korean giant Samsung Heavy Industries is to base its first European offshore wind project in Fife. Therefore a test and demonstration 7MW Wind turbine is built, located 45m from the coast of the Fife Energy Park in Methill Scotland.

DDC was requested to drill oversized holes for casing piles for 4 turbine jacket piles OD 2642 mm, length 37 m and 4 catwalk piles OD 1150 mm, length 17 m.

The maximum allowable inclination of the casing piles is 0,1°. This job is executed with a PBA936 for the jacket pile casings and a PBA815 for the catwalk pile casings.

To measure the inclinational deviation during drilling an inclinometer was used measuring the deviation of the drill string at regular intervals. Using our standard bitt plate configuration, the achieved inclination over 37 m is 0,07°.



Anholt Windfarm

Client:

Dong Energy

Location:

Rostock, Baltic sea, Germany

Date:

September 2013 – December 2013

Drill rig and foundation type:

PBA 936, OWF monopile, ø4600-6500mm

The Anholt Offshore Wind Farm is Denmark's largest offshore wind farm with a total capacity of 400MW and is located at the Kattegat between Djursland and the island of Anholt. The wind farm consists of 111 identical wind turbines with a capacity of 3.6MW each.

The piles are hammered into the seabed by SHV Svanen. In the event of a refusal, there could be bolders, the hole had to be drilled. DDC provided the first standalone drill rig, the PBA 1450. This unique drill rig has all his auxiliary equipment on the platform. When placed on a pile, the drill rig can drill independent from crane ship or jack-up barge.



Renewables

LINCS Wind Farm

Client:
Centric Renewable Energy Ltd.
Location:
Skegness Lincolnshire, UK
Date:
April 2011 - June 2012
Drill rig and foundation type:
PBA 936 monopile



Baltic I Wind Farm

Client:
EnBW
Location:
Baltic Sea, Germany
Date:
July 2010 - August 2010
Drill rig and foundation type:
PBA 936 monopile



Sheringham Shoal Wind Farm

Client:
Scira Offshore Energy Ltd.
Location:
Greater Wash, north of Sheringham, UK
Date:
August 2009 - February 2010
Drill rig and foundation type:
PBA 936 monopile



Gun Fleet Sands Wind Farm

Client:
Dong Energy
Location:
Northern Thames-Estuary, UK
Date:
February 2009 - March 2009
Drill rig and foundation type:
PBA 936 monopile



Renewables

Rhyl Flats Wind Farm

Client:

RWE Npower Renewables Ltd.

Location:

Liverpool Bay, UK

Date:

April 2008 - August 2008

Drill rig and foundation type:

PBA 936 monopile



Robin Rigg Wind Farm

Client:

E.ON UK

Location:

Irish Sea, UK

Date:

August 2007 - February 2009

Drill rig and foundation type:

PBA 815 monopile



Lynn and Inner Dowsing Wind Farm

Client:

Centrica Renewable Energy Ltd.

Location:

Lincolnshire coast, UK

Date:

June 2007 - August 2007

Drill rig and foundation type:

PBA 936 monopile



Burbo Wind Farm

Client:

SeaScape Energy

Location:

Irish Sea, UK

Date:

May 2006 - August 2006

Drill rig and foundation type:

PBA 933 monopile



Jacket installation campaign

Client:

Technip UEA

Location:

Persian gulf, UAE and Qatar

Date:

August 2015 - current

Drill rig and foundation type:

PBA 810 jackets



Satah Al Razboot (SARB)

Client:

ADMA OPCO

Location:

Persian Gulf, Abu Dhabi

Date:

April – June 2014, April – June 2015

Drill rig and foundation type:

PBA 408 jackets, PBA 612 mooring anchors



Westermost Rough substation

Client:

Dong Energy

Location:

Westermost Rough, UK

Date:

May 2014 - June 2014

Drill rig and foundation type:

PBA 408 jacket



Jacket offshore Mumbai

Client:

Larsen & Toubro

Location:

Arabian Sea, west of Mumbai, India

Date:

November 2010

Drill rig and foundation type:

PBA 818 jacket



PY-1 Gas field

Client:

Cal Dive Marine Constructions Ltd.

Location:

Bay of Bengal, near Chennai, India

Date:

January 2009 - April 2009

Drill rig and foundation type:

PBA 810 jackets



El Bunduq Oil-platform

Client:

Valentine Marine Gulf

Location:

Persian Gulf, UEA

Date:

June 2005 – July 2005

Drill rig and foundation type:

PBA 612 jackets



Goodwyn Platform

Client:

Heerema

Location:

Northeast shelf, Australia

Date:

1994



Oseberg Jacket

Client:

Norsk Hydro

Location:

North Sea, Norway

Date:

1987



Ichthys, LNG

Client:

INPEX

Contractor:

Bam international

Location:

Darwin, Australia

Date:

December 2013 – May 2014

Drill rig and foundation type:

PBA 815, piles two diameters

The Ichthys LNG Project consist of a Loading Jetty located at Blaydin Point, Darwin, Northern Territory. Gas from the Ichthys Field will be transported from the offshore CPF through a subsea pipeline more than 885 kilometers to the onshore LNG processing plant located at Blaydin Point.

BAM requested an drill rig which was directly available. For this project DDC revised an PBA 815 in a record time. We also delivered two BHA with a different daimeter. The drill rig is shipped to Darwin and under supervision of our personnel mounted together. Our supervisor trained the BAM Clough personnel on site to operate the drill rig.



Ferry port extension

Client:

Dover Harbour Board

Main contractor:

Herbosch-Kiere Marine Constructors Ltd.

Location:

Port of Dover, UK

Date:

October 2010 – November 2010

Drill rig and foundation type:

PBA 936, PBA 815 piles

Herbosch-Kiere Marine Constructors was awarded for the 35 m extension to the Dover ports Pier E. The extension is to cater for larger ferries that are expected to enter into service in 2011. The works consist of installing a 4 m diameter x 46 m long fendered monopile and a concrete deck suspended on 6 steel monopiles 1,2 m diameter.

The job for the 4m monopile was carried out with the PBA 936. The 6 smaller monopiles where executed with the PBA 815 using a drill bit of 1100 mm diameter. Both PBA's are hydraulically driven by a powerpack and works with the reversed airlift drilling principal for soil removal.



Nearshore



PNG LNG jetty

Location:
Port Moresby, Papua New Guinea
Date:
December 2011 - May 2012
Equipment:
PBA 815



Quay expansion

Location:
St. Maarten, Caribbean
Date:
March 2008 - November 2008
Equipment:
PBA 306



Submarine jetty

Location:
Faslane, Scotland
Date:
March 2008 - June 2008
Equipment:
PBA 815



LNG loading terminal

Location:
Milfordhaven, UK
Date:
May 2006 - April 2007



Jetty and mooring dolphins

Location:
Milfordhaven, UK
Date:
April 2006 - December 2006



Stenaline Terminal

Location:
Holyhead, UK
Date:
January 2003 - September 2003



Breakwater wall

Location:
Lanzarote, Spain
Date:
June 2004 - May 2005



Mooring piles

Location:
Condamine harbor, Monaco
Date:
2000-2001



King Fahd Causeway

Location:
Bahrein
Date:
1982 - 1983

Carolina Bridge

Client:
Ministry of Public Works of Surinam
Contractor:
Ballast Nedam
Location:
Suriname river, Surinam
Date:
May 2014 – August 2014
Drill rig and foundation type:
PBA 810, bridge and collision piles

The Carolina bridge cross the Suriname River near the village of Redi Dati some 50 km south of the capital city Paramaribo. The bridge has a total length of 204 m divided in 2 spans. The foundation design consists of foundation piles of the bridge pier in the river to support the bridge and foundation piles of the eastern and western abutment. The bridge pier is protected with an collisions construction. In the past there where several bridges hit in the fast streaming Surinam river by boats.

For this project we used our PBA 810 drill rig. We could use one diameter BHA for all the piles. For drilling the middle pier and the collision construction we operated from a barge.



Parking garage Anna van Bueren

Client:
SNS Property Finance and Fortress
Main contractor:
Ballast Nedam
Location:
The Hague, The Netherlands
Date:
September 2009 – October 2009
Drill rig and foundation type:
PBA 810, piles

Two of the foundation piles were leaking and due to the groundwater pressure 20 cubic meter sand was pushed out thru these piles. To prevent more sand coming out a grout plug was placed. When this grout plug had to be removed for inserting tension piles DDC was requested to do so.

A backyard game for DDC, while normally working all over the world this was a new experience. In the middle of the city centre we drilled out the 2 grout plugs giving the client the option to complete their job. Working on this small jobsite asked for special solutions for mobilization and preparation. Also a closed circulation system for the discharge and water supply was made.



Onshore



Intake pumping station

Location:
Dead Sea, Jordan
Date:
August 2009 - February 2010



Zambezi river bridge

Location:
Caia, Mozambique
Date:
February 2007 - May 2007



Bay Bridge

Location:
San Francisco, USA
Date:
October 2006 - January 2007



Riser shaft

Location:
Providence, USA
Date:
May 2003 - January 2004



Load out terminal

Location:
Vysotsk, Russia
Date:
November 2003 - March 2004



Catalyst cleaning

Location:
Pernis, The Netherlands
Date:
2002, 2004, 2006, 2008



Sewage outfall risers

Location:
Detroit, USA
Date:
2002



Ventilation shaft

Location:
Jacksonville, USA
Date:
2001



Carquinez bridge

Location:
San Francisco, USA
Date:
2001



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