

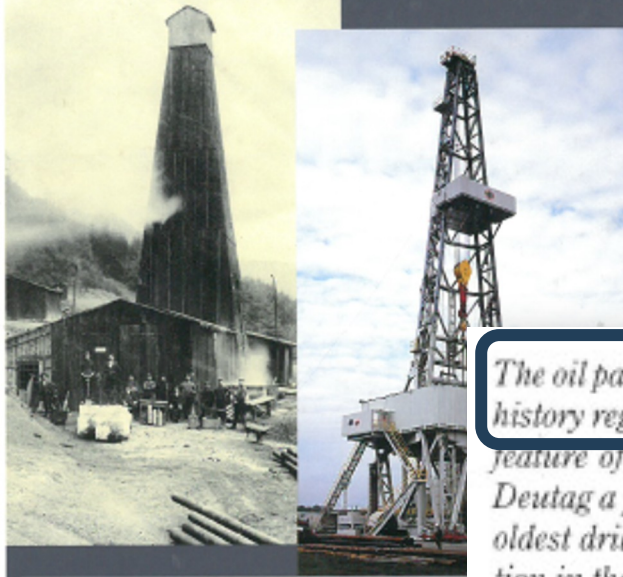



KCA Deutag group

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Bore & Rigg conference

DEUTAG  
DEUTSCHE TIEFBOHR-AKTIENGESELLSCHAFT



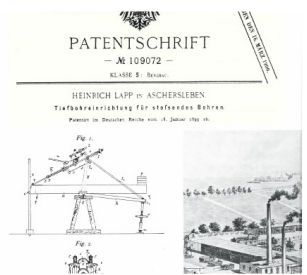
1888  1900

A CENTURY OF DRILLING EXPERTISE

*The oil patch has always been a tough environment – and one in which history regularly repeats itself through “boom and bust” cycles. It is this feature of the oil business which makes the 100 year track record of Deutag a particular achievement. Today, Deutag is not only one of the oldest drilling companies but one of the best, with a first class reputation in the industry.*



# Innovation and collaboration through Boom and Bust cycles



PATENTSCHRIFT  
— Nr. 109072 —  
KLASSE 5. a. 110  
HEINRICH LAPP in ANSCHLUSS  
Tiefenbauarbeiten für stählernen Behälter  
Patent in Deutscher Reich vom 14. Januar 1899 ab.

1899

Patent on automated cat walk



Eigentum  
des Kaiserlichen  
Patentamts.  
KAISERLICHES PATENTAMT  
PATENTSCHRIFT  
— Nr. 119169 —  
KLASSE 5. a. 110  
CARL DEILMANN in DORTMUND.  
Elastisch gelagerte Rutschschere mit Wasser  
Patent in Deutscher Reich vom 31. März 1899 ab.  
*The patent for Carl Deilmann's bumper for one of his several inventions.*


1901

Patent on bumper sub



1918

Economic crash post 1st WW



1963

Started offshore and founding Transocean




1964

Start drilling in Oman



1973

Start drilling in Norway  
Statoil/Esso(Vår Energi)



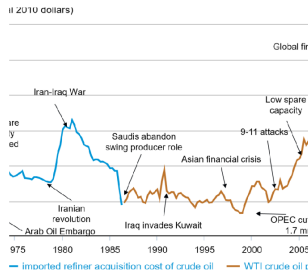
1987

Drilling in Arctic



2013

Decision on Cat J



Oil bust

The chart shows oil prices in 2010 dollars from 1975 to 2015. It tracks two series: 'Imported refinery acquisition cost of crude oil' (blue line) and 'WTI crude oil price' (orange line). Key events marked include the Arab Oil Embargo (1973-74), Iranian revolution (1979), Saudi abandonment of swing producer role (1980), Iran-Iraq War (1980), Iraq invades Kuwait (1990), Asian financial crisis (1997), 9-11 attacks (2001), and OPEC cuts (2003). A 'Global financial' crisis is noted at the end of the period. The price peaks at approximately \$140 in 2008 before crashing to around \$30 by 2009.



2018-2024

Azerbaijan BP ACE



Living in the Snow globe



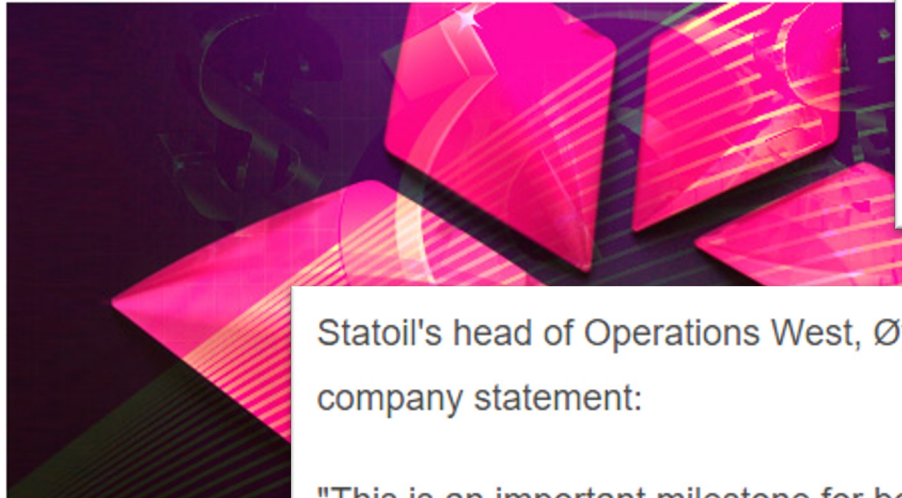
## Brave and visionary

2013

### NEWS

#### Statoil Awards Samsung, KCA Deutag Cat J Contracts

by Rigzone Staff | Tuesday, June 04, 2013 | 1:05 AM EST



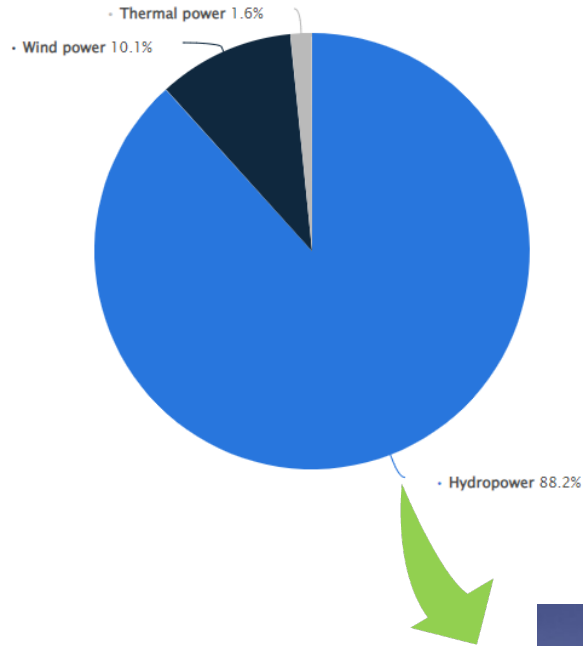
They will be able to operate in harsh environments at water depths from 230 to 460 feet and drill wells to depths of up to 32,800 feet. The rigs are based on proven technology, but optimized to allow for more efficient drilling and completion of subsea wells compared to the existing jackup fleet.

Statoil's head of Operations West, Øystein Håland, commented in a company statement:

"This is an important milestone for both Oseberg and Gullfaks. The awards will secure vital rig capacity for both licenses at very competitive prices. Reduced drilling costs are important to increase recovery and to maintain production in Oseberg Area Unit and Gullfaks for decades."

# Electrification of Jackup

2024

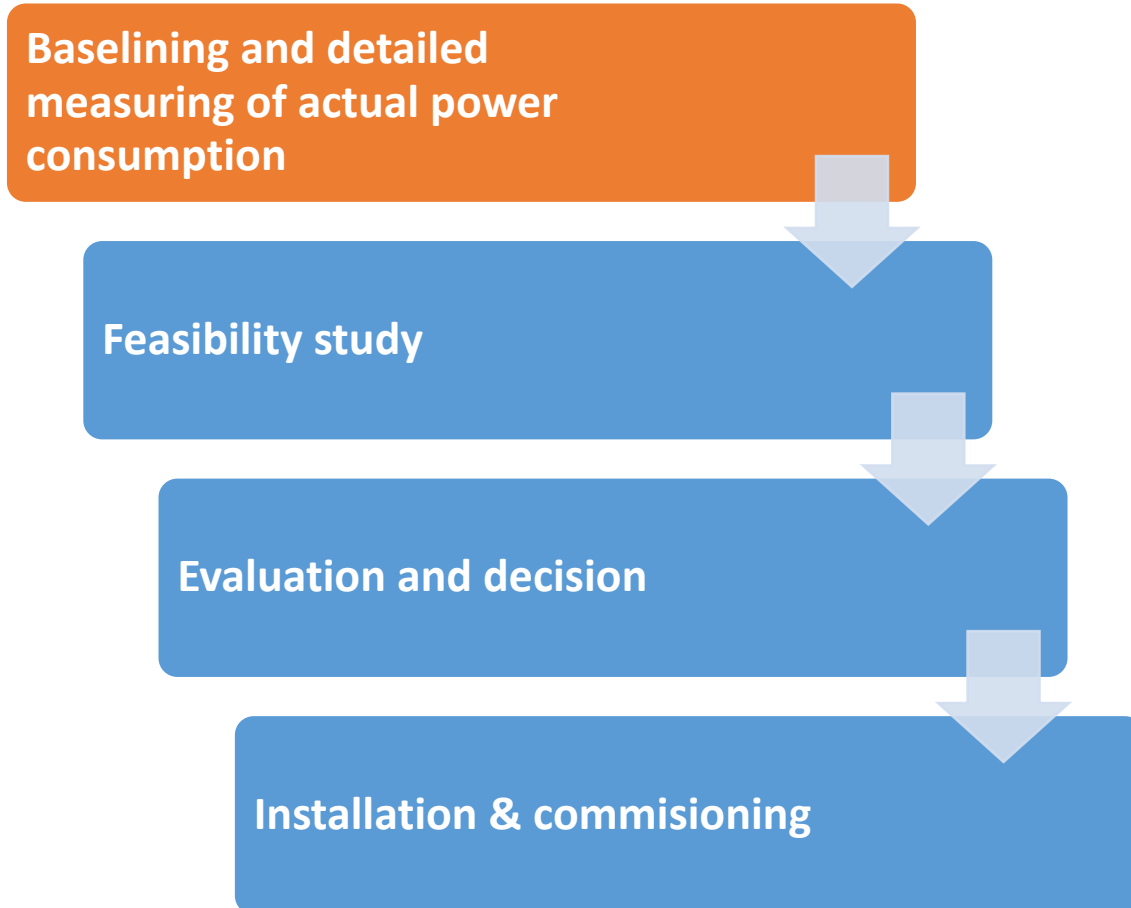


## Zero Emission Mobile Offshore Drilling Unit



# Energy optimisation of Askeladden and Askepott

Process

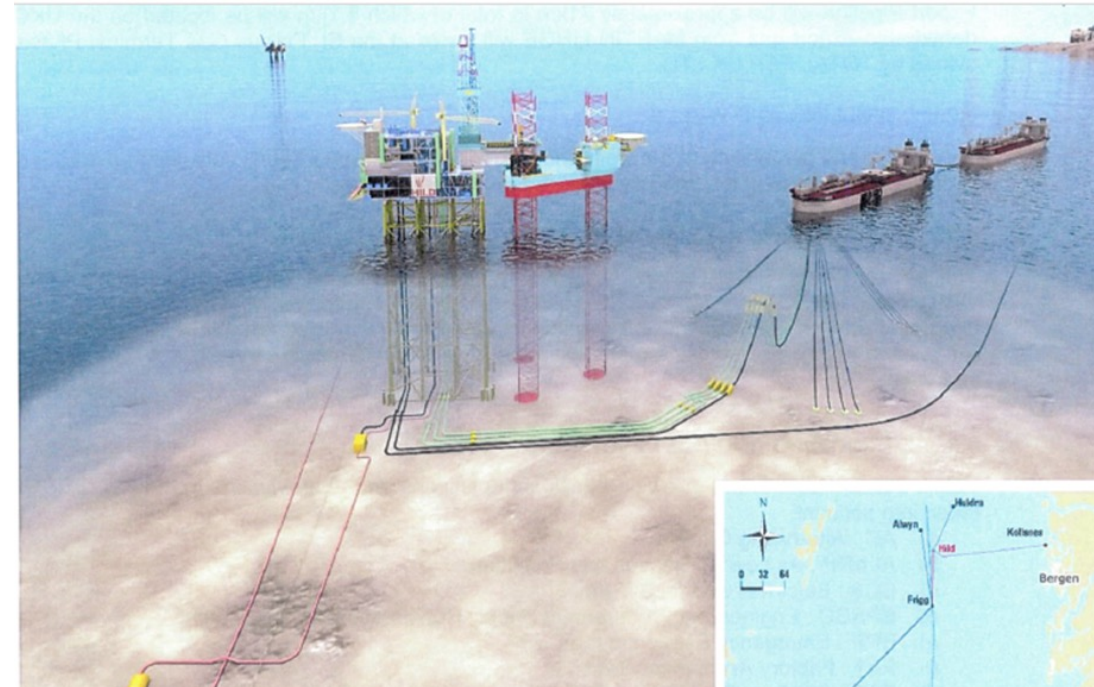




## Energy optimisation of Askeladden and Askepott

Shore power from land to jackup

- Askepott is originally powered with 4 x Cat C-280 diesel engines with 3,8 Mw /11kV generators.
- Shore power now provides power instead of the diesel engines via a 161 km long cable from land. (Kollsnes to Martin Linge field)
- Transformers, frequency converters and high-voltage switchboards are installed onboard the drilling unit by KCAD to convert 11 kV/50 Hz to 11kV 60 Hz to supply Askepott via the cable.



# Energy optimisation of Askeladden and Askepott

Shore power from land to jackup



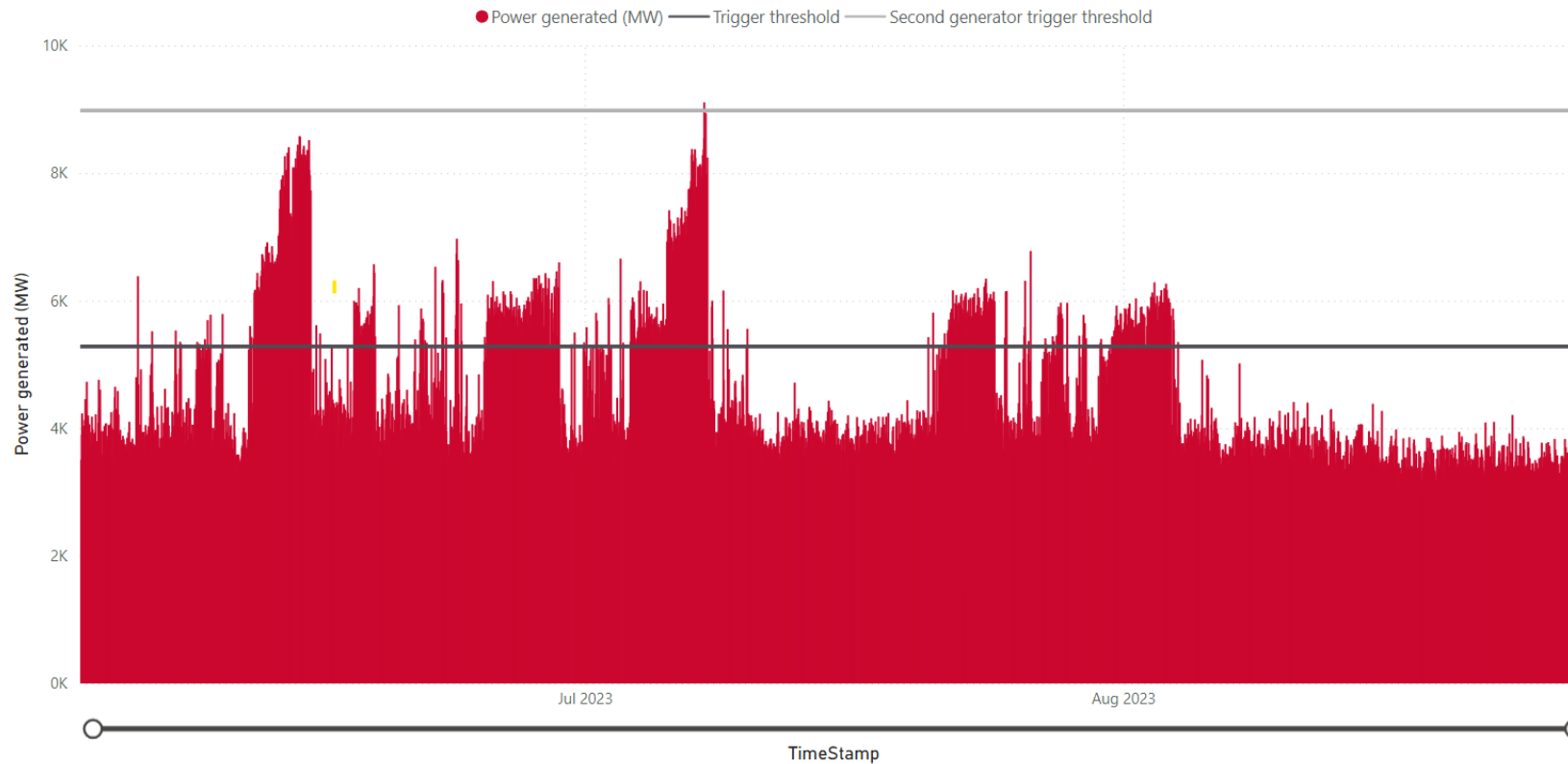
Reduction  
0.00

## 23.1 %

Generator Triggered

TimeStamp  
6/2/2023 8/27/2023

Power scenario on Martin Linge - ASP



# Innovation through Trusted partnerships

Credibility



Knows what they are talking about

Reliability



Commitment to your words

Time



It takes time

Reflect on our action. Act on our reflection