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Elektrifisering – hvorfor og hvordan?

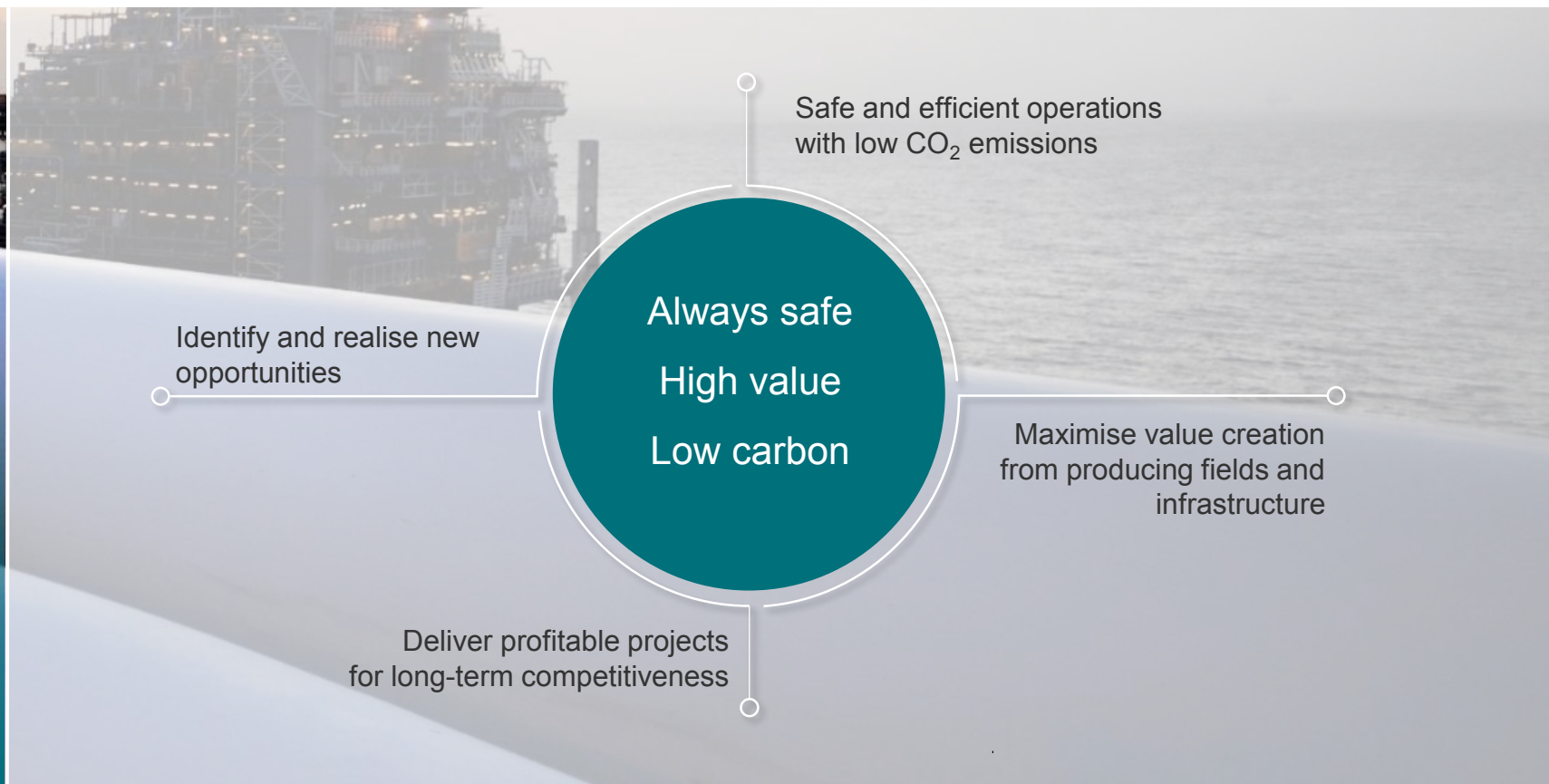
Statnett kraftsystemmøte, 24th of October 2018

Øystein R Berge, Advisor



Equinor's roadmap for the Norwegian continental shelf

Maintain profitable production at the current level until 2030 and beyond



Safe and efficient operations
with low CO₂ emissions

Identify and realise new
opportunities

Always safe
High value
Low carbon

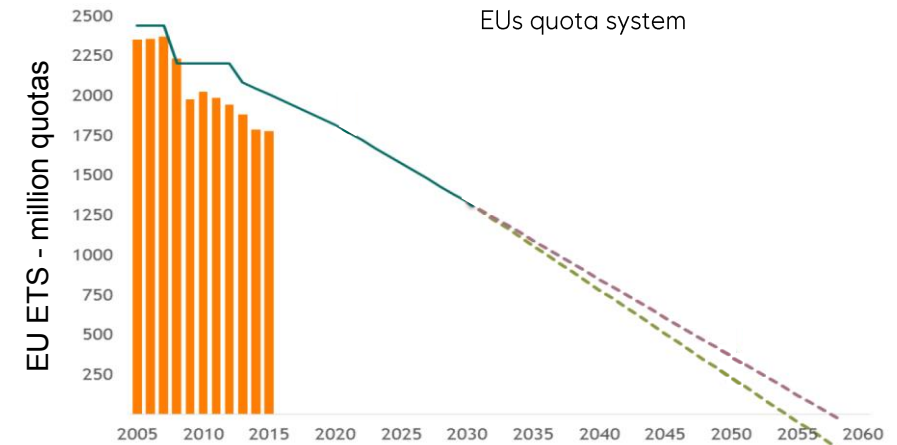
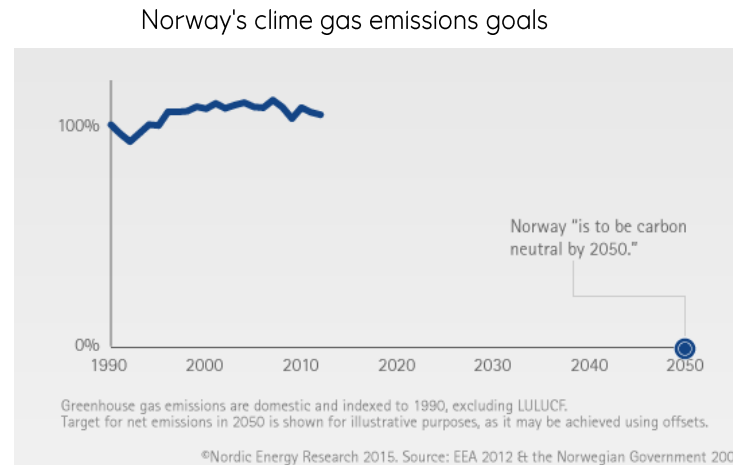
Maximise value creation
from producing fields and
infrastructure

Deliver profitable projects
for long-term competitiveness

The challenge

Key strategic themes
CO₂ footprint

National and EU targets



Our response



Our ambitions:

- 8 kg/boe in 2030,
- Reduce yearly emission with accumulated 3 mill. tonn

Our actions:

- 25% of R&D into low carbon and energy eff. by 2020
- 15-20% of CAPEX in new energy by 2030
- Electrification
 - Power from shore or floating wind mills

Greenfield vs brownfield – a totally different ballgame

Greenfield

- Possible economical profitable project
 - PfS will in many cases be economical viable
 - PfS often show better availability
- Company ambitions
 - Profitable projects will be welcome by all partners
- By regulation
 - Licence to operate

Brownfield

- Profitable?
 - Normally not
 - Will not lead to higher revenue, only reduced tax
- Company ambitions?
 - Different partners has different level of ambitions
- By regulation?
 - Existing licences are valid

Frame conditions – what will ease (or not) the electrification process?

- Access to grid with adequate capacity and quality
 - Timely information and collaboration among parties important
- Reasonable and transparent investment contribution
 - Changes in regulation does have some concerns in this respect
- Reasonable and non discriminating tariffs
 - Tariffs should reflect the actual customers effect on the grid, and part of socialized costs should reflect the customers investment contribution
- Direct regulations
 - Of course.....



Forslag til endring i forskrift om kontroll av nettvirksomhet

Forslag til endringer i regelverket om anleggsbidrag

6
2018

HØRINGS
DOKUMENT



Statnett Fremtiden er elektrisk

English Kundeportal Media Kontakt oss

KRAFTSYSTEMET NETTUTVIKLING SAMFUNNSOPPDRAG FINANS KARRIERE OM STATNETT

Forside > Media > Nyheter > Nyhetsarkiv 2018 > Tariff for 2019 vedtatt

Nyheter

- Nyhetsarkiv 2018**
- Nyhetsarkiv 2017
- Nyhetsarkiv 2016
- Nyhetsarkiv 2015
- Nyhetsarkiv 2014
- Nyhetsarkiv 2013**
- Nyhetsarkiv 2012
- Nyhetsarkiv 2011

> Pressesenter

Tariff for 2019 vedtatt

Statnetts styre har vedtatt sentralnettstariffen for 2019. Store investeringer i strømmettet gjør at tariffen øker, og det blir gjort endringer for å sikre mindre forskjell mellom nettkundene.

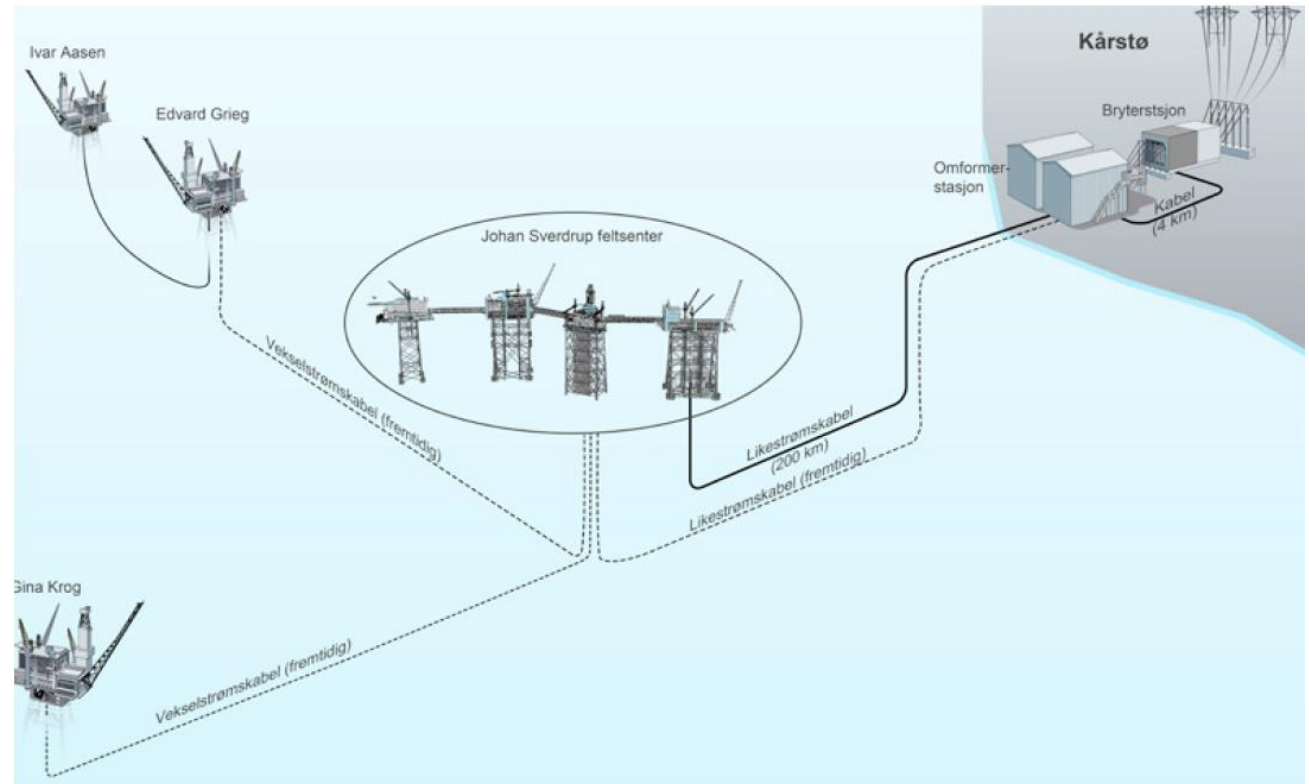
Statnett gjør for tiden betydelige investeringer for å sikre at sentralnettet er robust, og for å sikre strømforsyningen i mange år fremover. Kraftsystemet er i endring og skal blant annet takle en overgang fra fossil til fornybar kraft i Norden, samtidig som det er et stort reinvesteringsbehov i eksisterende nett. Dette vil medføre økt tariffnivå i årene fremover, og for 2019 øker tariffen for sentralnettet med 9%. For vanlige forbrukere betyr det i snitt en økning på 0,6 øre/kWh.

[Her finner du tariff for 2019](#)

Det blir også mindre endringer i tariffmodellen. Kraftintensiv industri kan i dag få opptil 90% redusert tariff. Styret vedtok at dette taket reduseres med 15 prosentpoeng til 75% i 2019. Styret legger videre til grunn at taket reduseres med ytterligere 15 prosentpoeng både i 2020 og 2021. Dette er basert på de vurderingene som i dag foreligger om en fremtidig ny tariffmodell. Samtidig vedtok styret at det skal jobbes videre med den nye tariffmodellen.

Electrification on NCS is nothing new!

- Some examples:
 - Kollsnes and Troll A
 - Melkøya (partly, due to lack of grid)
 - Ormen Lange
 - Gjøa
 - Valhall
 - Johan Sverdrup (Utsira)
 - Martin Linge
 - More to come!



Main takeaways



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Stabile and reasonable frame conditions

Grid with capacity and quality – in time

Bear in mind CAPEX and OPEX