

Potential for CO₂ Capture and Storage from Natural Gas Production

Trude Sundset, Vice President Environment and Climate, StatoilHydro

CSLF capacity building workshop, Al Khobar, Saudi-Arabia, Jan 2008

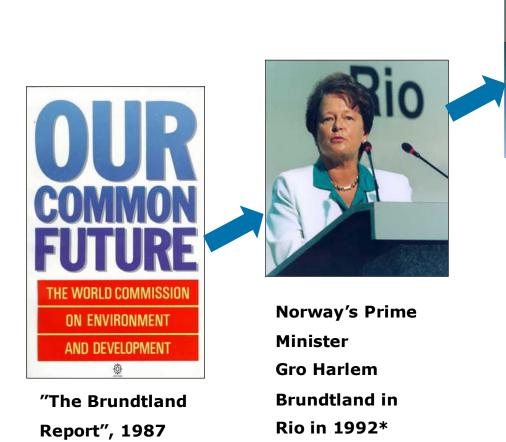


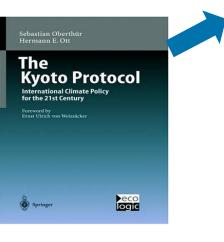
- Present in 40 countries
- 31.000 employees
- Production 1.7 MBBL o.e./day
- Largest offshore operator
- 3rd largest net seller of oil





2007: 20 year Anniversary for Our Common Future



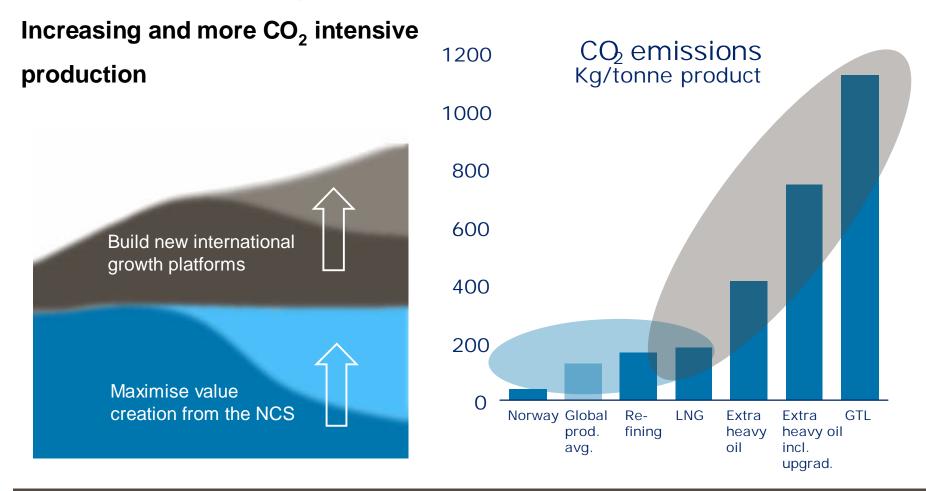


The Kyoto Protocol, 1997 ACIAS OBRIGADO PASIBO DANKE SEHR, MERCI GRAZIE DANK U GRACIAS TAKK SPASIBO I **KYOTOCOL** 16 FEBRUARY 2005 SPASIBO DANKE SEHR AF MERCI GRAZIE DANK U UKRAN THANK YOU S R ARIGATO MEP

The Kyoto Protocol ratified, 2005

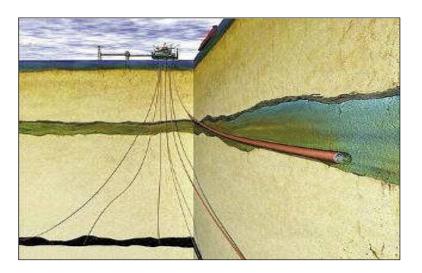
 * A Brundtland-led government introduced a CO2-tax of about 45 US\$/ton in Norway in 1992.

Responding to the growth challenge makes it a climate challenge



The Sleipner experience – our starting point





- Started in 1996
- CO₂ from natural gas (Approx. 1 mill. tons CO₂ annually)
- Storing in saline aquifer
- Driver: CO₂-tax (340 NOK/ton \$50/ton), corporate environmental strategy
- Learning and confidence building through a series of large EU-wide R&D programmes

The Sleipner experience – the Utsira formation

- Safe and high capacity CO₂ storage
- Systematic mapping needed to verify storage capacity
- Experts aligned probability high that CO₂ will be contained for thousands of years
- CO₂ storage as potential profitable business in a carbon constraint world



Source: Bjørlykke, NGI

In Salah and Snøhvit LNG – the next CCS steps

- Started in 2004
- CO₂ from natural gas
- Separating and injecting 1,2 mill. tons CO₂ annually
- Injection into reservoir aquifer
- Driver: BP internal quota system



- Starting in 2008
- CO₂ from natural gas
- Separating, piping and injecting 0,7 mill. tons CO₂ annually
- Injection below reservoir
- Driver: CO₂ tax





StatoilHydro's CCS projects An industrial approach to climate change

