

EU ENERGY AND CLIMATE CHANGE POLICY



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Cautionary Note

Reserves: Our use of the term "reserves" in this presentation means SEC proved oil and gas reserves.

Resources: Our use of the term "resources" in this presentation includes quantities of oil and gas not yet classified as SEC proved oil and gas reserves. Resources are consistent with the Society of Petroleum Engineers 2P and 2C definitions.

Organic: Our use of the term Organic includes SEC proved oil and gas reserves excluding changes resulting from acquisitions, divestments and year-average pricing impact. Resources plays: our use of the term 'resources plays' refers to tight, shale and coal bed methane oil and gas acreage.

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OUTLINE

EU Framework for Climate and Energy to 2030

Global context

EU energy pathways

Decarbonisation pathways and the role of CCS

Policy needs

What is Shell doing for a lower carbon future?

THE 2030 POLICY FRAMEWORK FOR CLIMATE AND ENERGY

Aims to make the European Union's economy and energy system more competitive, secure and sustainable

Reducing greenhouse gas emissions by 40% below 1990 level by 2030

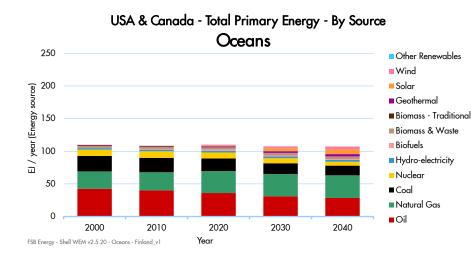
- Sectors covered by the EU-ETS need to reduce by 43% compared to 2005.
- Sectors outside the EU-ETS need reduce by 30% below the 2005 level.
- Ensuring a cost-effective track towards cutting emissions by 80% by 2050.
- Enables EU to engage actively in the negotiations on a new international climate agreement that should take effect in 2020.

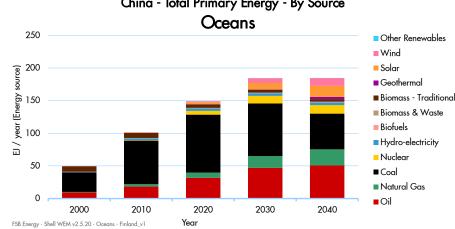
This effort would be shared equitably between the Member States.

- Increasing the share of renewable energy to at least 27%
 - Non-binding for individual member states
- Increasing energy efficiency by 30%
- Reform of the EU Emissions Trading System
 - Establishment of a market stability reserve at the beginning of the next ETS trading period in 2021, addressing the surplus of emission allowances that has built up in recent years and improve the system's resilience to major shocks by automatically adjusting the supply of allowances to be auctioned.

Source: European Commission

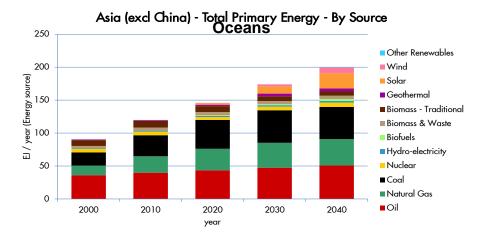
THE GLOBAL CONTEXT – THE COMPETITION FOR ENERGY





China - Total Primary Energy - By Source

EU - Total Primary Energy - By Source Oceans 250 Other Renewables Wind 200 Solar EJ / year (Energy source) Geothermal Biomass - Traditional 150 Biomass & Waste Biofuels 100 Hydro-electricity Nuclear 50 Natural Gas 0 Oil 2000 2010 2020 2030 2040 Year FSB Energy - Shell WEM v2.5.20 - Oceans - Finland_v1



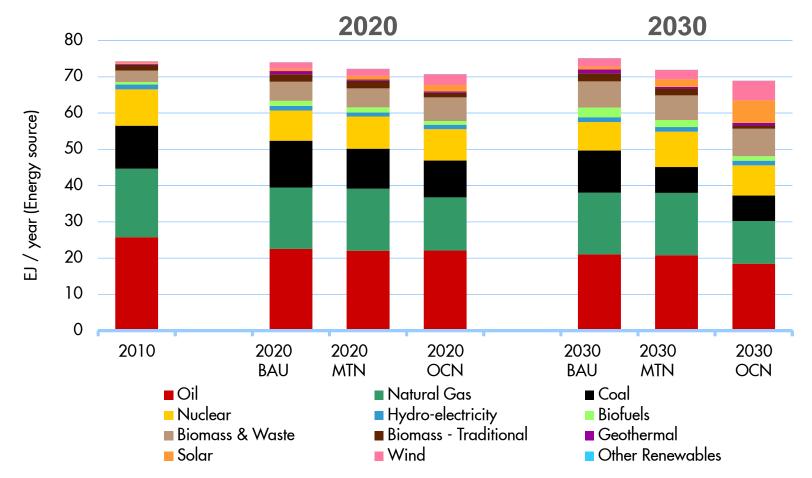
Source: Shell FSB-Energy

SCENARIOS

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MOUNTAINS

What energy choices will be driven by policy and what by global drivers?



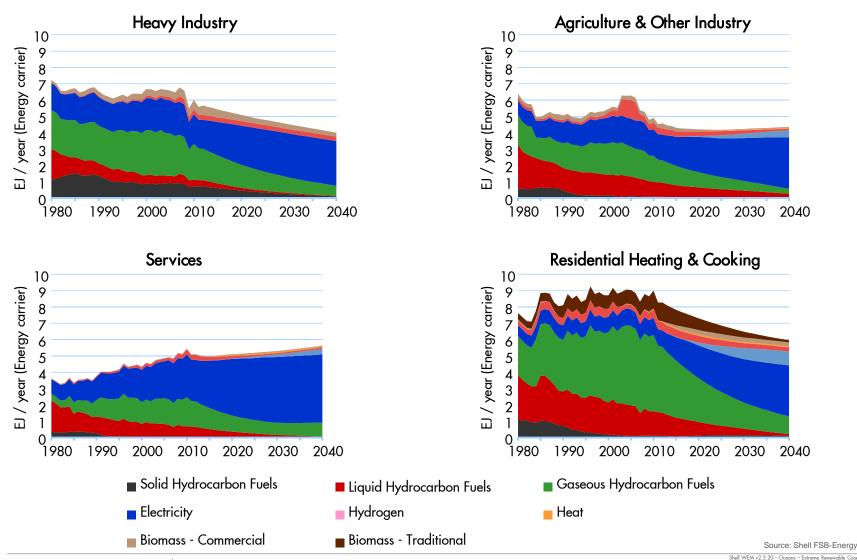
By 2020 around 20% Renewables and by 2030 between 25-35% True efficiency gains difficult to assess

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EU-15 TOTAL FINAL CONSUMPTION HOW FAST CAN SECTORS CHANGE?

A strong uptake of Renewables can only be accommodated by strong uptake of electrification of sectors

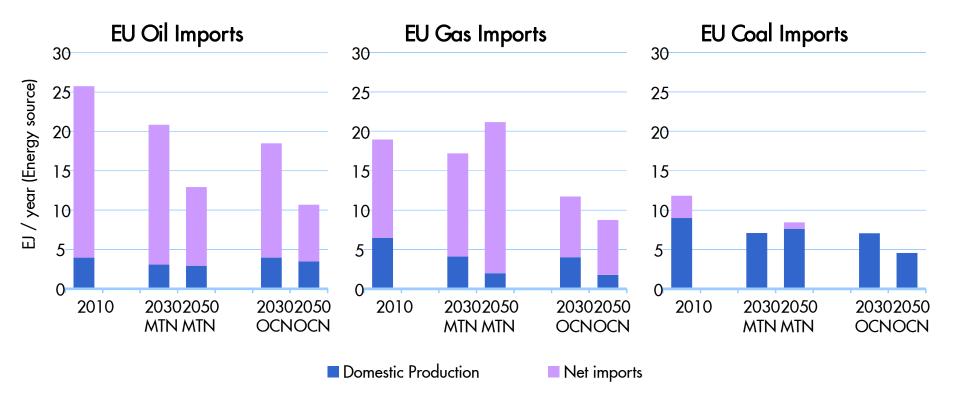


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hese regional outlooks are based on many assumptions and interpretations of possible future choices from today's perspective. Many uncertainties remain and many alternatives are ossible. It should be seen as a starting point for discussion and Shell by no means advocates any of these outlook as a preferred or inevitable one.

MOUNTAINS FOSSIL PRIMARY ENERGY IMPORTS

A scenario of higher commodity prices and CO_2 pricing will increase efficiency and substitution – and reduce imports by more than half by 2050



OCEANS

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MOUNTAINS EU CO₂ EMISSIONS FROM ENERGY OCEANS

The CO₂ reduction targets of 20% by 2020, 40% by 2030 and 80% by 2050 fall somewhat short, unless land use and Industry can make up the difference

EU - CO2 Emissions from energy

Emissions Emissions captured & Stored

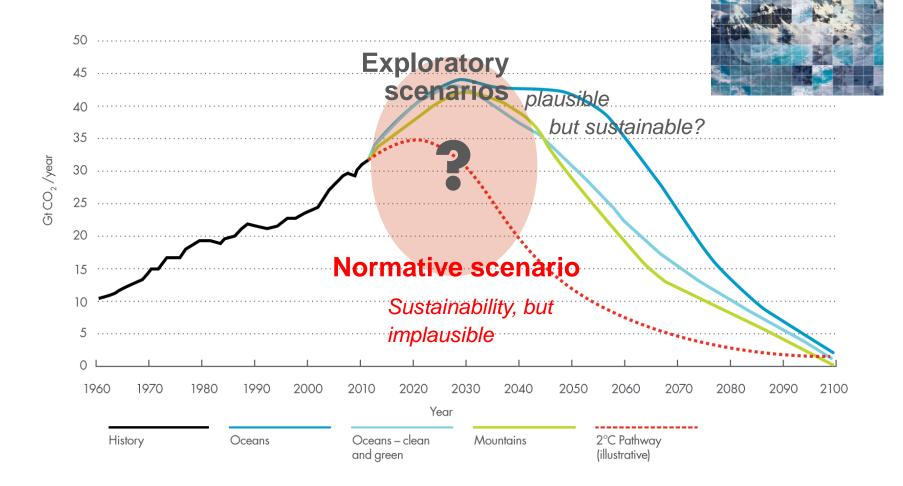
By 2020 between 5-10% reduction from energy, by 2030 between 20-30% and by 2050 between 55-60%

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GLOBAL CONTEXT - ENERGY-RELATED CO₂ EMISSIONS

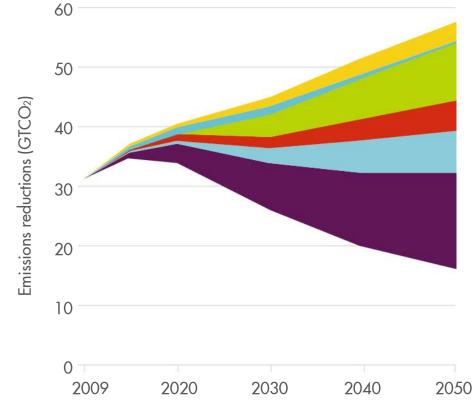
OVERSHOOT, DAMAGE ... REPAIR?



CENARIOS

Source: Shell FSB-Energy

CONTRIBUTIONS TO GREENHOUSE GAS REDUCTION



Nuclear 8% (8%) Power generation efficiency and fuel switching 3% (1%) Renewables 21% (12%)

End-user fuel switching 12% (12%)

CCS 14% (17%)

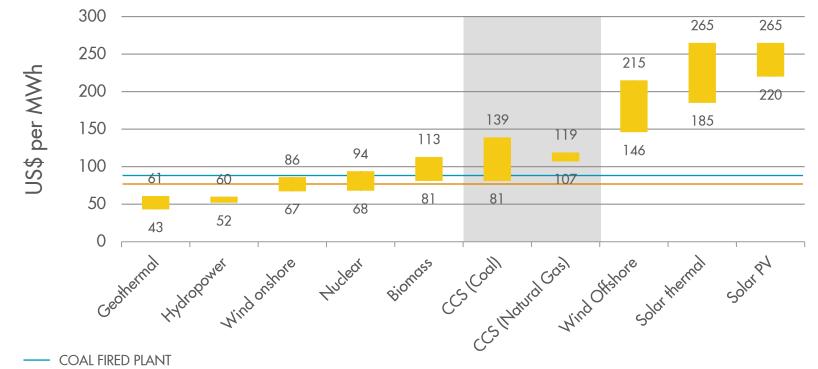
End user fuel and electricity efficiency 42% (39%)

CCS IMPACT

- 14% cumulative impact to 2050
- 17% impact in the year 2050

Source: IEA Energy Technology Perspectives, 2012

CCS EXPECTED TO BE COST COMPETITIVE



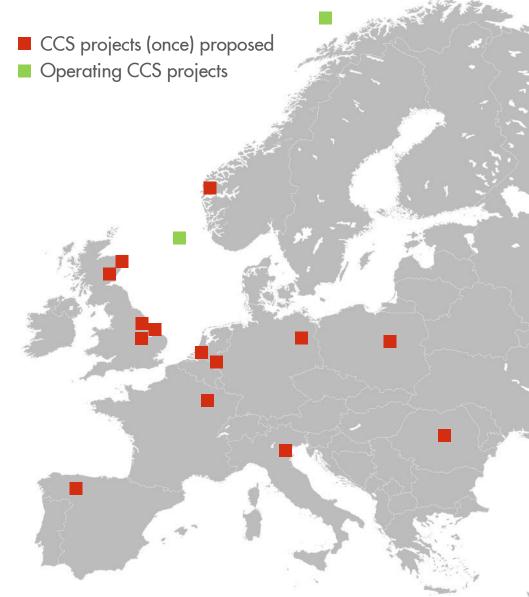
*Levelised cost of electricity of low-carbon technologies and conventional power generation – as presented in 'The costs of CCS and other low-carbon technologies' Global CCS Institute.

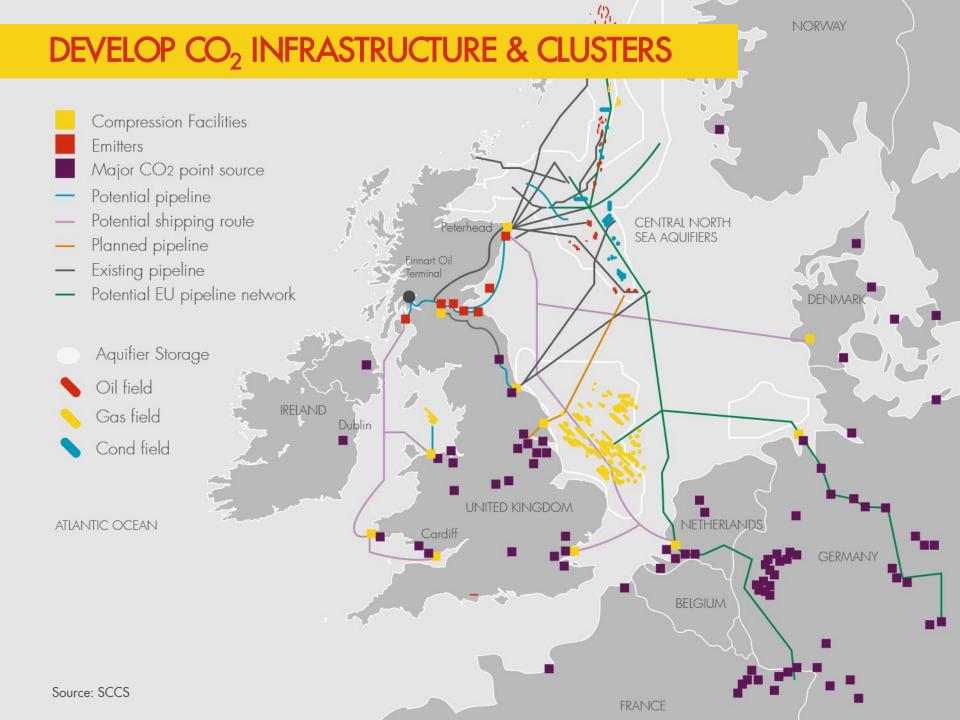
CCS EUROPEAN STATE OF PLAY

- Large-scale demonstration projects proposed, some operating
- Demonstration funds (EERP and NER300) available

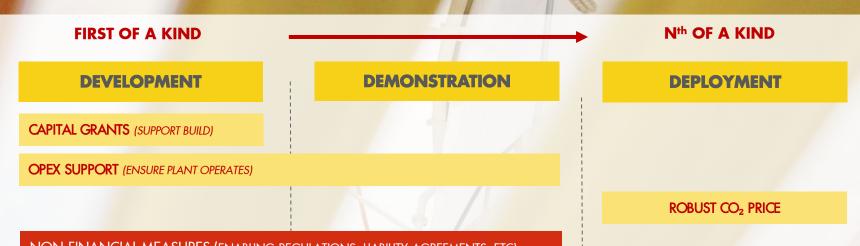
But progress largely stalled due to:

- ETS ineffective as CCS driver
- Lack of Member State support
- Lack of public support for onshore storage





POLICY NEEDS



NON-FINANCIAL MEASURES (ENABLING REGULATIONS, LIABILITY AGREEMENTS, ETC)

CCS will require a robust CO₂ price, a level playing field with alternative low carbon technologies, and short term demonstration support to drive down costs.

WHAT IS SHELL DOING FOR A LOW CARBON FUTURE?



BIOFUELS: RAIZEN JV



ENERGY EFFICIENCY: REFINERIES



CARBON CAPTURE + STORAGE: OIL SANDS



CO2 TECHNOLOGY CENTRE MONGSTAD (TCM) NORWAY

The world's most advanced test centre for CO₂ capture

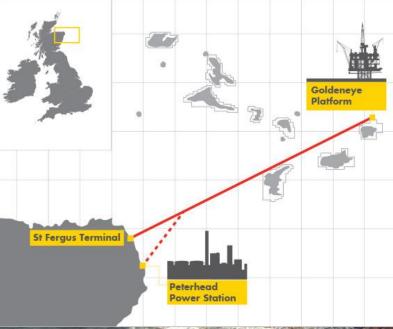
Technology demonstration and verification, including Shell Cansolv

Critical step in scaling up CCS

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PETERHEAD CCS FOR GAS POWER PROJECT

Planned first full-scale CCS project on a gas-fired power station



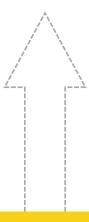


DEVELOPING PETERHEAD WITH CONFIDENCE

CLEAR LIABILITY AGREEMENT

Government accepts the long term liability at handover





DEMO FINANCIAL SUPPORT

UK CCS Competition offers 'up-front' capital grant Partial FEED funding Additional R&D support underpinning project

ENABLING LEGISLATION

CCS Directive Transposed Storage Licence granted Electricity Market Reform (EMR) Contracts for Difference (CfD)



Peterhead Powerplant operates as baseload Negotiated CfD



To build a competitive, secure and sustainable energy system is complex and costly, requiring new forms of co-operation between Governments, Industry, Academia and Society.

- We need all forms of energy to meet future demand and the oil and gas industry will continue to fulfil a crucial role in this over the coming decades while new industries grow
- To achieve the CO₂ targets there is a growing need to decarbonise fossil fuels and CCS will play a critical role



