

CCS and Carbon Take Back in the Netherlands

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- 30+ years experience Oil/gas industry
- 15+ yrs experience in CCS
- Project manager Barendrecht CCS project (2007/10)
- Self-employed, working on CCS since 2016:



Public acceptance

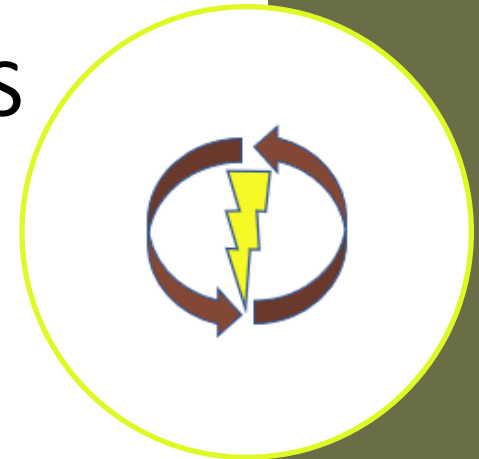
lessons learnt in NL

Paris agreement → net zero studies → much better understanding (*experts*) of the need for CCS

Dutch Climate Agreement: CCS under conditions:

1. Sieve: industry only; no cost-effective alternatives
2. Ceiling: max 7.2 Mton/y (subsidised) in 2030
3. Horizon: no new subsidy after 2035

Also important: don't assume that people *in general* know WHAT CCS is and WHY it is needed

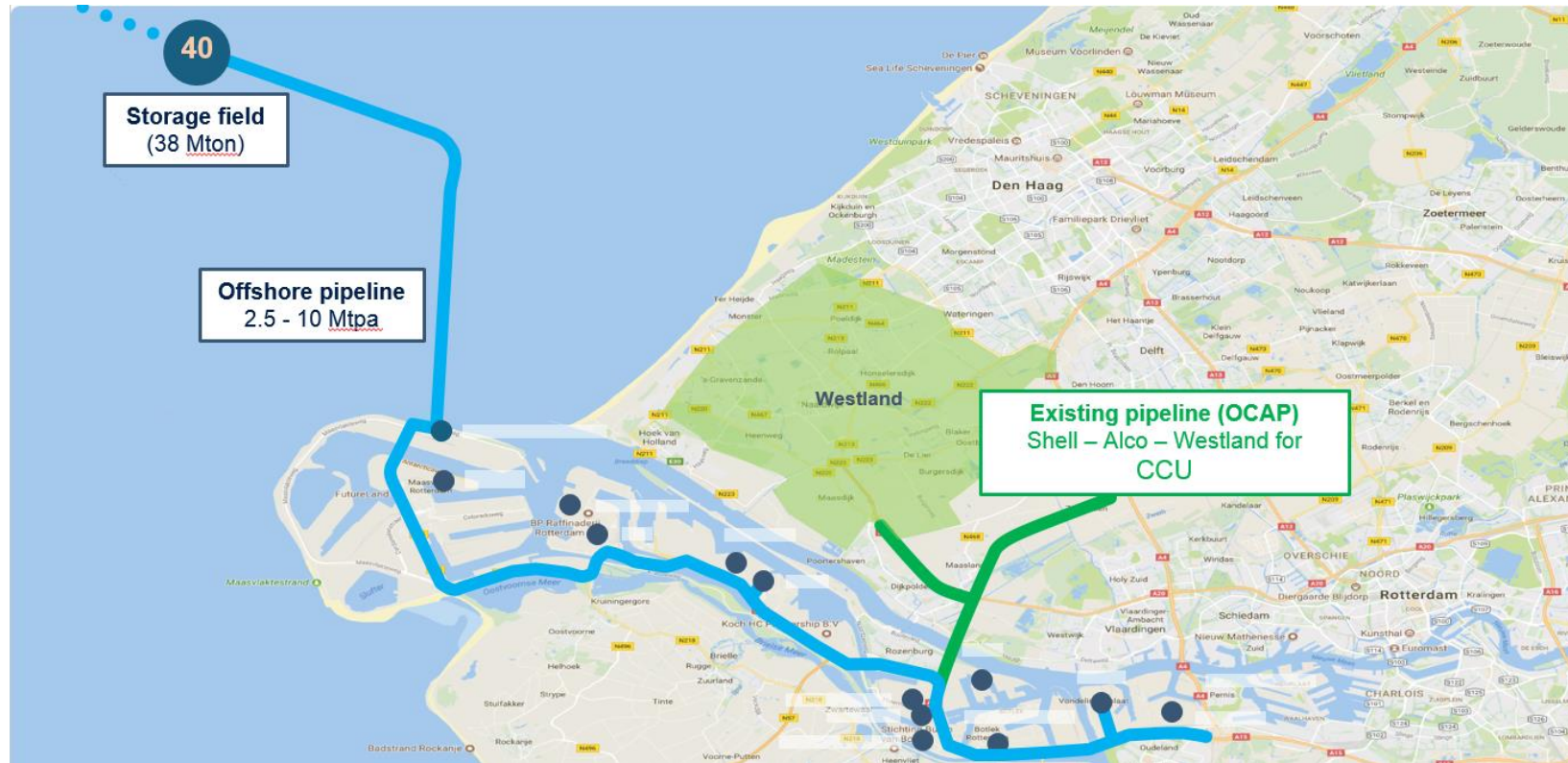


Looking forward

- Carbon Take Back study proposal
 - Policy Gap Paris agreement
 - multi-party stakeholder process to better understand the why and how of a CTB
 - Sponsored by Oil/Gas organisations and Ministry
 - Based on 30+ 1-on-1 discussions last year
- Start-up projects: Porthos & Athos



Porthos (Rotterdam)



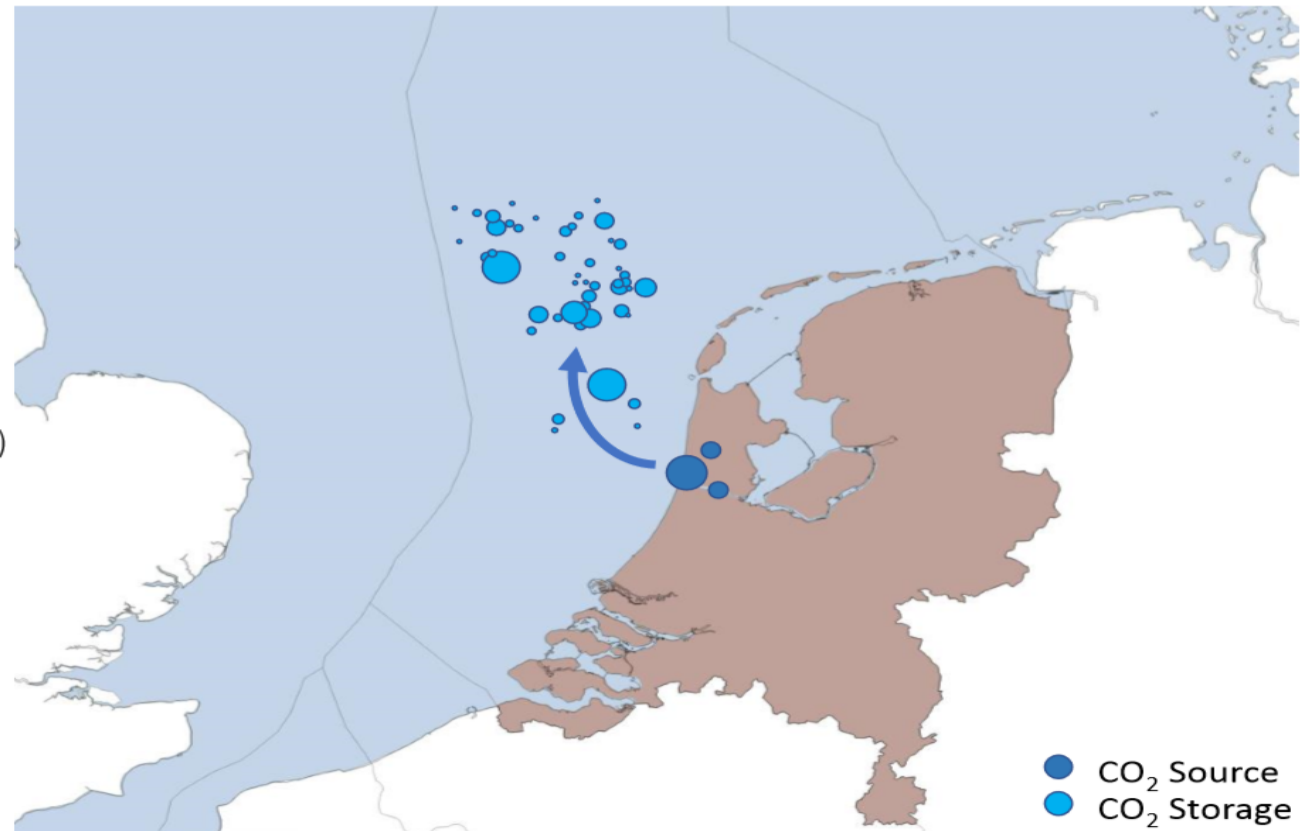
- <https://rotterdamccus.nl/en/>

Athos (Amsterdam)



Project Athos

- Feasibility study
- Large scale CCUS (1-5 Mton)
- Capture, utilization, transport & storage
- Multiple potential offshore storage sites
- Partners: Tata Steel, Gasunie, HbA, EBN
- PCI status applied for (support from D, IRL)



Project Athos
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Why do NL authorities support a study of Carbon Take Back?

- Making oil/gas-producers co-responsible will increase political support and reduce costs
- New permits oil/gas production 'Paris-compliant'
- Avoid/prepare for court cases:
 - Urgenda court case: short-term emission goals
 - Council of State advice: policy gap 2050 targets
- Potential for a better deal (for the state) on decommissioning/mothballing costs

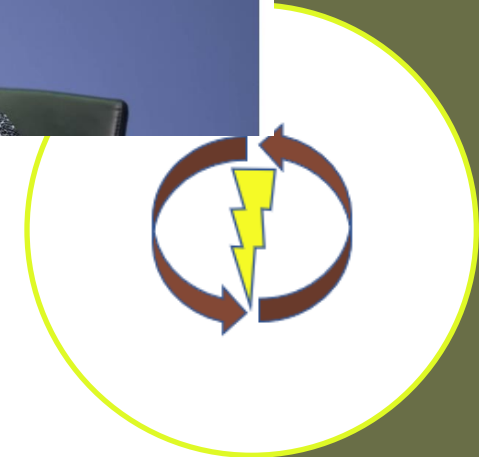


Governments urged to attach green strings to long-term coronavirus recovery plans

Published on 23/03/2020, 11:34am

UN says Paris climate agreement and sustainable development goals should guide recovery beyond massive stopgap measures needed to combat coronavirus

Recommendations:



1. New oil/gas fields: under CTB; electricity or hydrogen; taxed like other industries; no subsidies after 2030
2. Existing fields: when renegotiating terms (or 'Corona' packages): introduce CTB at low % and increase to 100% in 2050
3. Work with other North Sea countries to set up and announce a North Sea Carbon Take Back Alliance at COP 26