nexstep NATIONAL PLATFORM FOR RE-USE & DECOMMISSIONING

Nexstep Factsheet Decommissioning in the Netherlands

status December 31, 2021

Operational infrastructure offshore

Gas platforms	Oil platforms	Subsea installations	Wells	Pipeline (kms)
106	12	16	411	3069

Suspended infrastructure offshore

Gas platforms	Oil platforms	Subsea installations	Wells	Pipeline (kms)
32	3	3	260	661

Decommissioned infrastructure offshore

Gas platforms	Oil platforms	Subsea installations	Wells	Pipeline (kms)
26	6	12	781	803

Decommissioned infrastructure offshore 2021

Gas platforms	Oil platforms	Subsea installations	Wells	Pipeline (kms)
0	0	2	20	239

Offshore infrastructure forecasted to be decommissioned 2022-2031

Gas platforms	Oil platforms	Subsea installations	Wells	Pipeline (kms)
84	9	15	452	1924

Operational infrastructure onshore

Well locations	Processing locations	Other locations	Wells	Pipeline (kms)
198	33	87	609	1757

Suspended infrastructure onshore

Well locations	Processing locations	Other locations	Wells	Pipeline (kms)
129	3	21	422	688

Decommissioned infrastructure onshore

Well locations	Processing locations	Other locations	Wells	Pipeline (kms)
37	6	27	1411	140

Decommissioned infrastructure onshore 2021

Well locations	Processing locations	Other locations	Wells	Pipeline (kms)
0	0	6	9	0

Onshore infrastructure forecasted to be decommissioned 2022-2031

Well locations	Processing locations	Other locations	Wells	Pipeline (kms)
161	10	78	490	955

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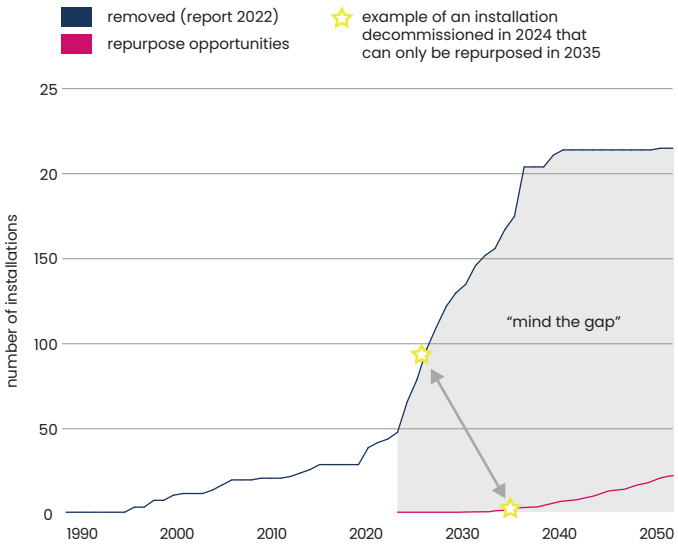
Re-using / repurposing oil & gas infrastructure

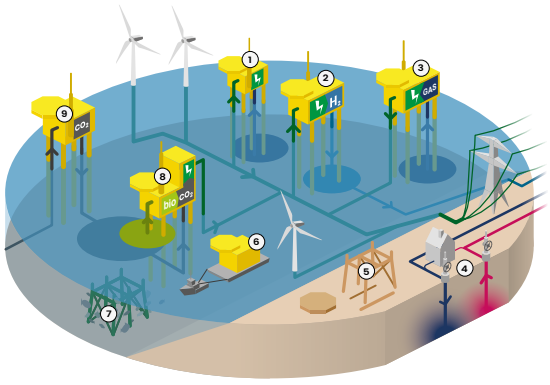
status December 31, 2021

The Netherlands is facing an ambitious challenge to meet the targets of reducing its CO_2 footprint and to transition towards a sustainable energy system. In some instances there will be opportunities to re-use or repurpose existing oil and gas infrastructure to accelerate the energy transition. In practice, the decommissioning of the infrastructure would be earlier than the demand for re-use or repurpose. Approximately half of the infrastructure offshore is scheduled to be decommissioned in the next decade. It is important now to determine which infrastructure can contribute to the energy transition and to ensure that this infrastructure is not decommissioned prematurely, preventing unnecessary future investments.

Number of installed and removed offshore installations



Investigated options for re-use/repurposing of infrastructure:



1 offshore electrification
2 production and storage of hydrogen
3 gas to wire
4 geothermal
5 recycling
6 relocation
7 rigs to reef
8 biomass production
9 CO_2 storage

Of the 34 platforms that have been removed, 15 were re-used for hydrocarbon production:

Platform	Installation year	Operator	Re-use year	Re-used for
E18-A	2009	Wintershall Noordzee bv	2019	D12-B
K10-C	1981	Wintershall Noordzee bv	1997	Q04-A
K10-V	1993	Wintershall Noordzee bv	2005	L05-C
K11-B	1995	Neptune Energy Netherlands bv	2005	G14-A
K12-A	1983	Neptune Energy Netherlands bv	2006	K12-K
K12-E	1986	Neptune Energy Netherlands bv	2005	G16a-A
K13-D	1978	Wintershall Noordzee bv	1987	L08-H
L10-G	1984	Neptune Energy Netherlands bv	1988	L10-L
L10-K	1984	Neptune Energy Netherlands bv	2000	L10-M
L11a-A	1990	Neptune Energy Netherlands bv	1999	K09ab-B
P02-NE	1996	Wintershall Noordzee bv	2001	Q04-B
P02-SE	1997	Wintershall Noordzee bv	2002	P06-D
P06-S	1997	Wintershall Noordzee bv	2013	Q01-D
P14-A	1993	Wintershall Noordzee bv	2008	E18-A
Q01-Helder-B	1986	Petrogas E&P Netherlands bv	1989	Q01-Haven-A

In addition to re-using oil and gas platforms on other locations for the same purpose, infrastructure may be repurposed. It is estimated that some 10% of the infrastructure may be re-used/repurposed.

Current repurposing projects:

PosHYdon pilot	Production and transportation of green hydrogen on Neptune Energy's Q13a-A platform
Storage of CO_2	Porthos / Aramis
GZI Next	NAM's repurposing of onshore gas treatment installation to new energy hub in Emmen