Estimated P&A- Norwegian Continental Shelf: 2021 – 2026
January 2021

Company	Estimated number of P&A 2021 → 2026	Estimated number of Slot Recovery 2021 → 2026	Estimated number of Sub Sea P&A 2021 → 2026	Contact person
AkerBP	17	29		Egil Thorstensen
ConocoPhillips	45	47	0	Birgit Vignes
Equinor	+/- 24 cessation	+/-70 pr. år	+/- 5 cessation	Tormod Fossdal
Neptune Energy	1-2 /year	0	0	Malte Damm
DNO North Sea	3-5	0	subsea P&A	Grethe Lønø
Lundin Norway	0	2	4 subsea P&A	Jakob Mo
Norske Shell	9	0	subsea P&A, LWI	Madelen Moore
Repsol Norge	19	2	3	Øystein Østerhus
Total Norge	3	0	Subsea P&A	Johan Kverneland
Spirit Energy	1	0	Subsea P&A	Stian Brevik
Wintershall Dea	+/-11	+/-20	0	Frode Angell-Olsen
Vår Energi	0	5	0	Jan Terje Svendsen

Key technical challenges:
Subsea P&A, Platform P&A, Dual casing strings across P&A zone, Slot recovery, Rigless P&A, Verification of cement / formation outside casing, Removal of tubing / casing, Challenge to set 50m plugs, Tubing access/collapse, verification methods, corroded tubulars, cross-department. Through tubing PWC, Logging through two strings, Deformed casing/tubing
COP do rig/DP based P&A. Key challenge is dual casing over P&A zone. Typically, 7'' casing inside 9 5/8'' csg. Also: See presentation''CasingDeformation'' held in 2018

Technical needs:
Dual string cross sectional plugging, Cutting/milling in large casing, Pull tubing, Logging challenges, PWC, Reliable and efficient barrier verification methods, Dual casing bond logging, Alternative plugging solutions, Rigless P&A
CoP: A dual string cross sectional technique which (dual string logging) can be verified or effective fishing of inner string.