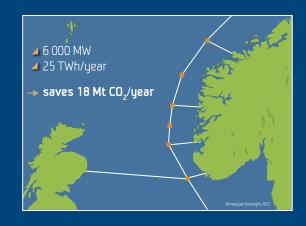


Offshore Wind Energy

- a solution to the climate challenge





Grid connection - a stepwise development



- ▲ Small wind farm connection to oil & gas installation
 - ▲ Wind farm operate in parallel with gas turbines
 - Saves fuel and emissions



- ▲ Large wind farm directly connected to mainland grid
 - Possibly also connects oil & gas installation
 - Options:
 - a) HVAC with SVC b) LCC HVDC c) VSC HVDC



- ▲ An offshore transmission highway is established
 - Connections to wind farms, oil & gas installations, mainland grid and trans-national
 - Options:
 - a) HVAC b) Multi-terminal HVDC c) combination











