



From mountain to sea

Aberdeenshire
COUNCIL



An overview of Energy and Infrastructure Projects in the NE

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Head of Planning & Building Standards



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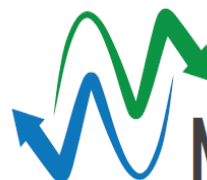
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Energy and Infrastructure Projects



renewables



NORTHCONNECT

CONNECTING RENEWABLES



Statoil



PORT AUTHORITY





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MORL Offshore Wind

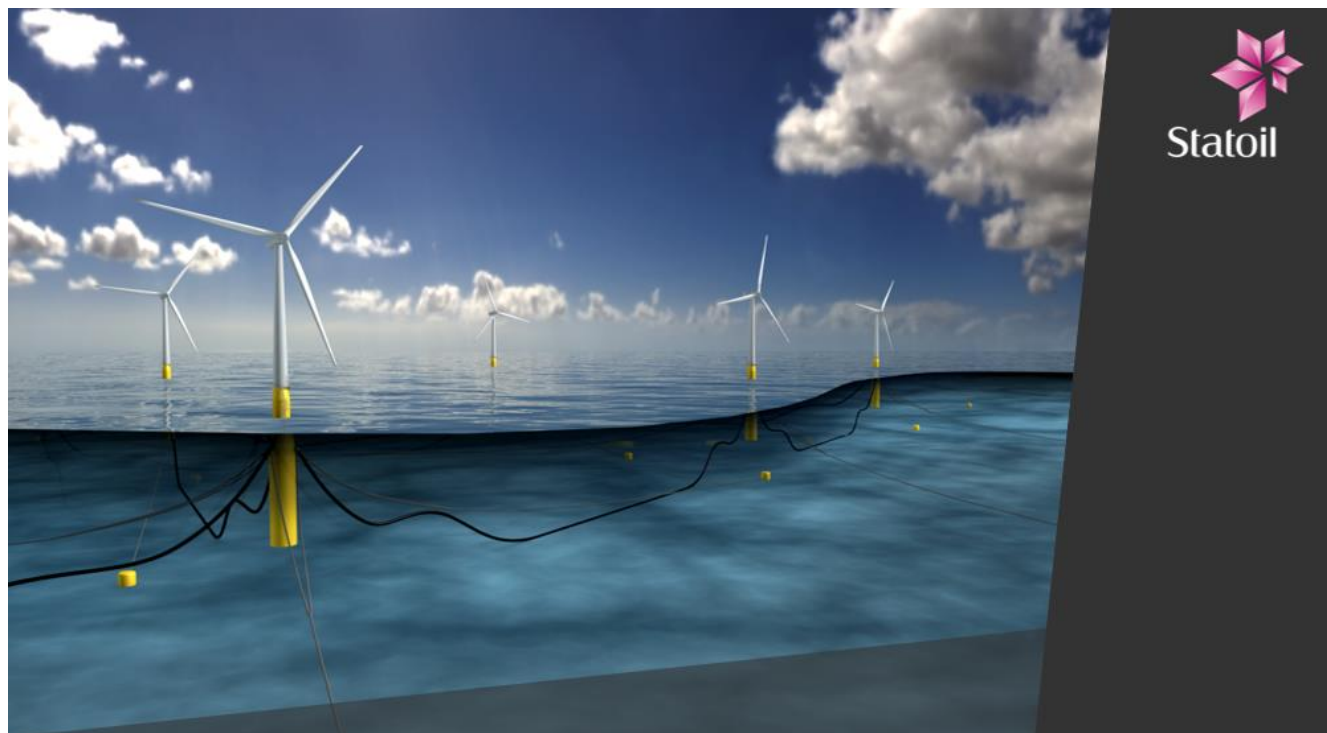
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- Offshore Windfarms in Outer Moray Firth
- 189 – 339 turbines (1.1 GW capacity) - Moray East consented
- 90 turbines (750MW) - Moray West at pre-app/EIA scoping stage
- Onshore works Moray East – landfall Banff , 33km long corridor, 20ha site substations in Aberdeenshire



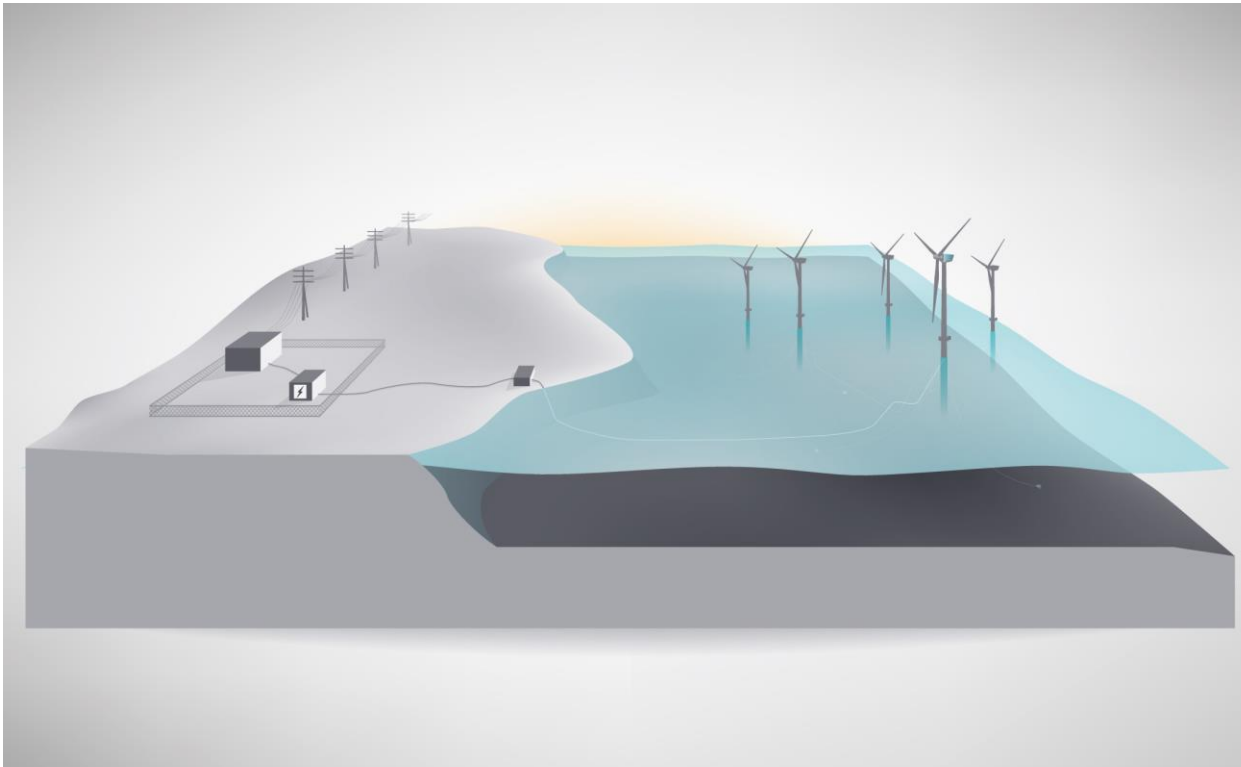
From mountain to sea **Offshore Wind – Hywind Scotland Pilot Park**



- Statoil proposal for 5 X 6 MW floating turbines
- World's first full scale floating turbine 'Pilot Park'
- Located in deep water
- Onshore works – export cable, landfall at Peterhead, cabling to substation



From mountain to sea **‘Batwind’ Pilot Scheme at Hywind Scotland**



- Pilot Scheme to store energy - build + measure + learn
- Testing of business model, technology, operations, market drivers and regulation
- If successful, scale up to commercial scale
- Battery (1 MWh) and conversion (33kv AC to DC)



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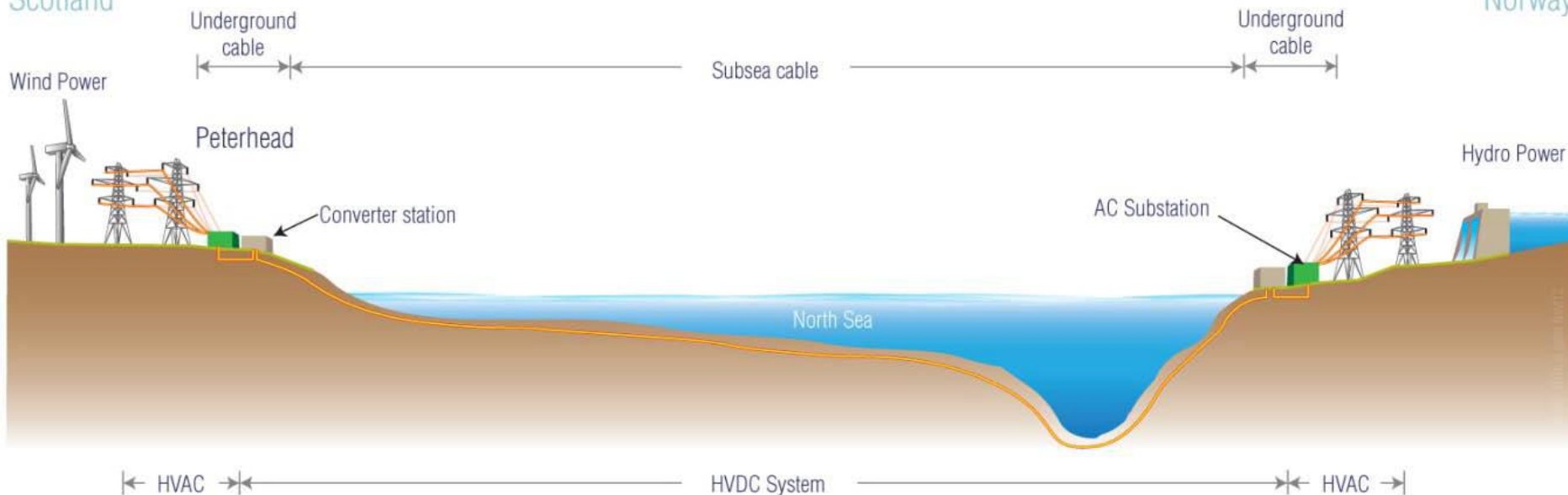


North Connect Interconnector



Scotland

Norway



- Subsea electricity transmission interconnector between UK and Norway (1.4GW)
- Landfall, cabling, large HVDC converter station (Phase 1)
- Connection to Peterhead Sub Station



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Peterhead Port Development

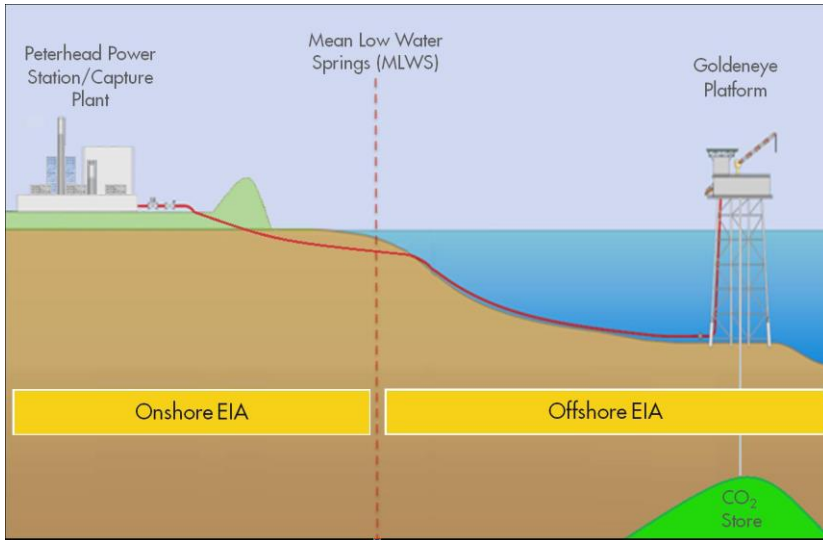
Peterhead
PORT AUTHORITY





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CCS Peterhead Power Station



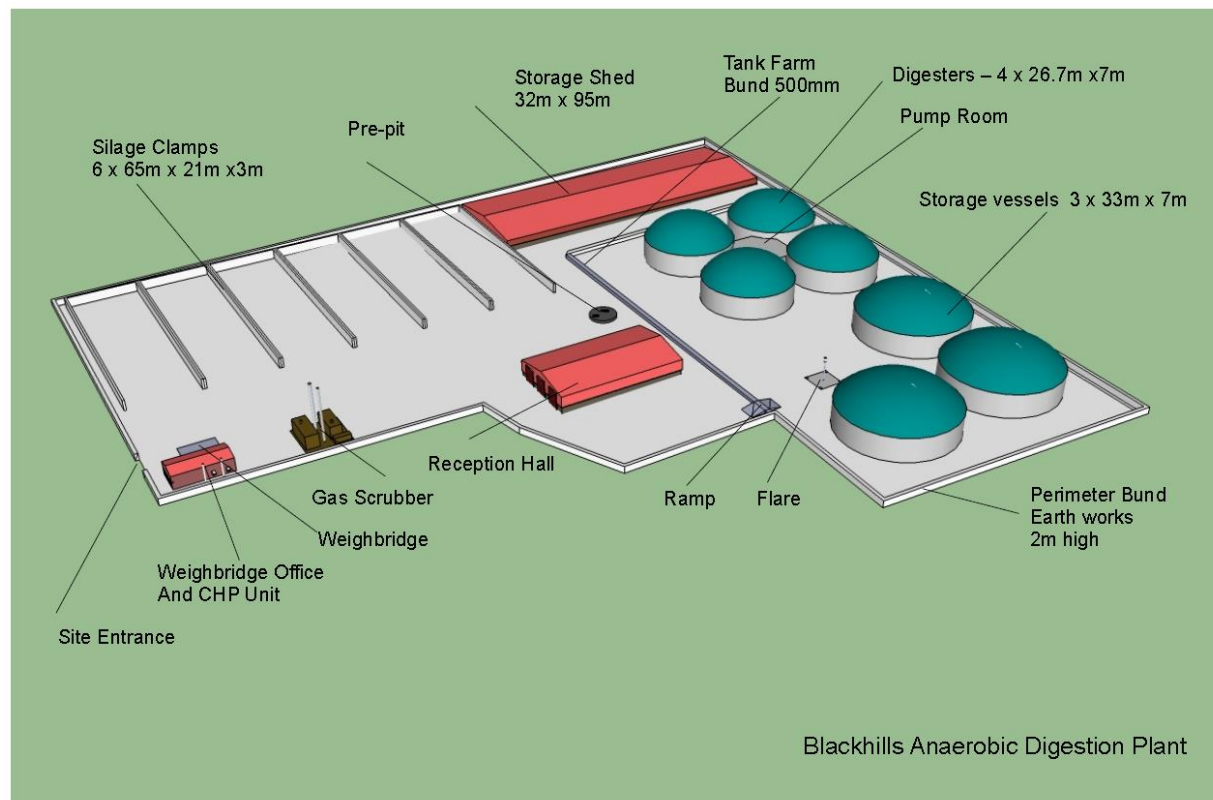
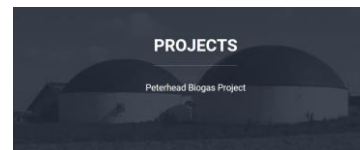
- World first full scale CCS project at Gas-fired power station
- 10 – 15 million tonnes of CO₂ captured
- Onshore CCS plant/compression facility/pipeline and landfall
- Goldeneye reservoir 100km distance in North Sea
- Project cancelled late 2015



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Biogas Plant

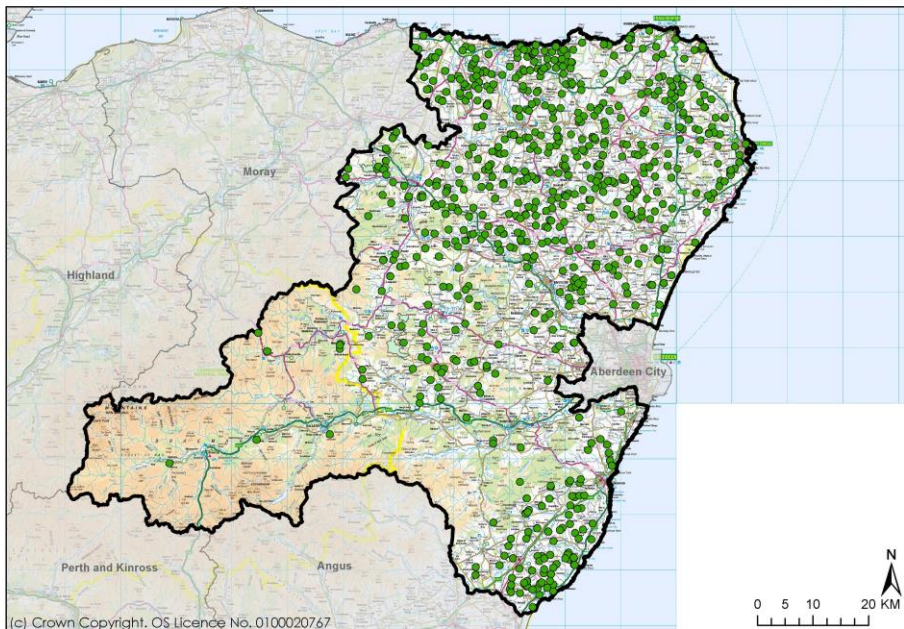


- Blackhills, Peterhead
- Anaerobic Digestion Plant
- 55,000 tons/yr feedstock
- 5 million m³ of methane rich biogas per year
- Injection to gas network

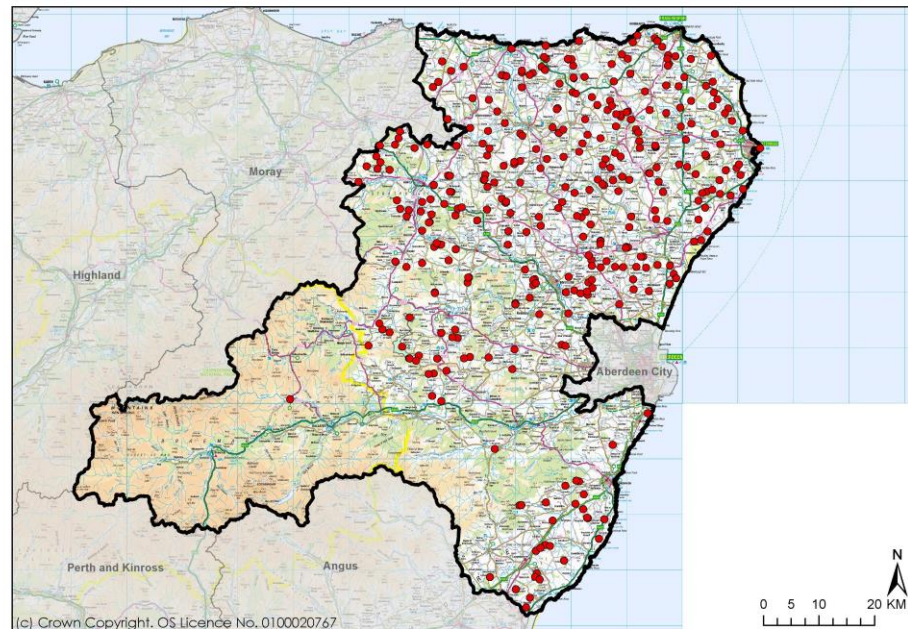


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Onshore Wind



Approved Turbine Applications - 766



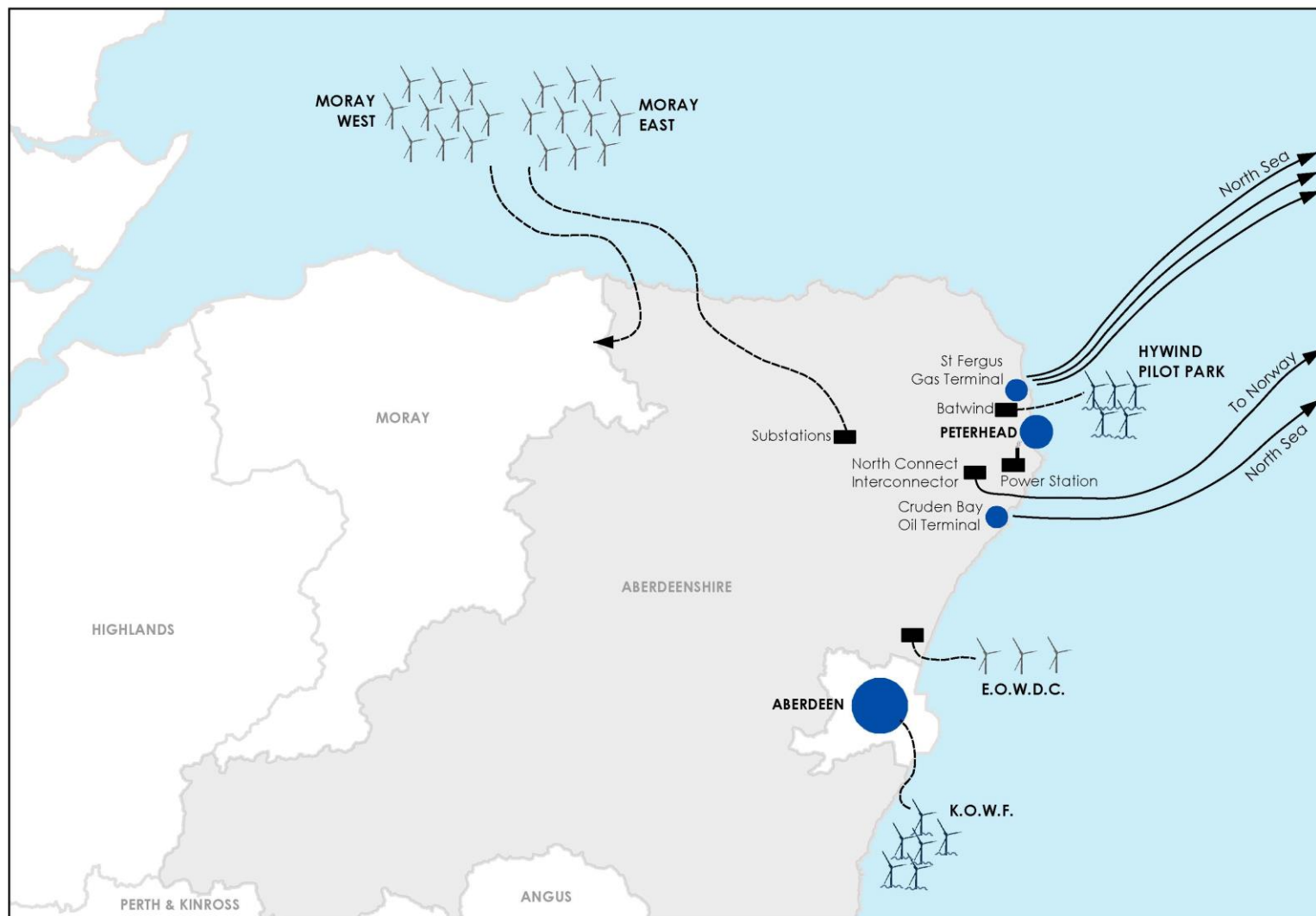
Refused Turbine Applications - 369

Source: Aberdeenshire Council, Planning Applications
2003 - 2017



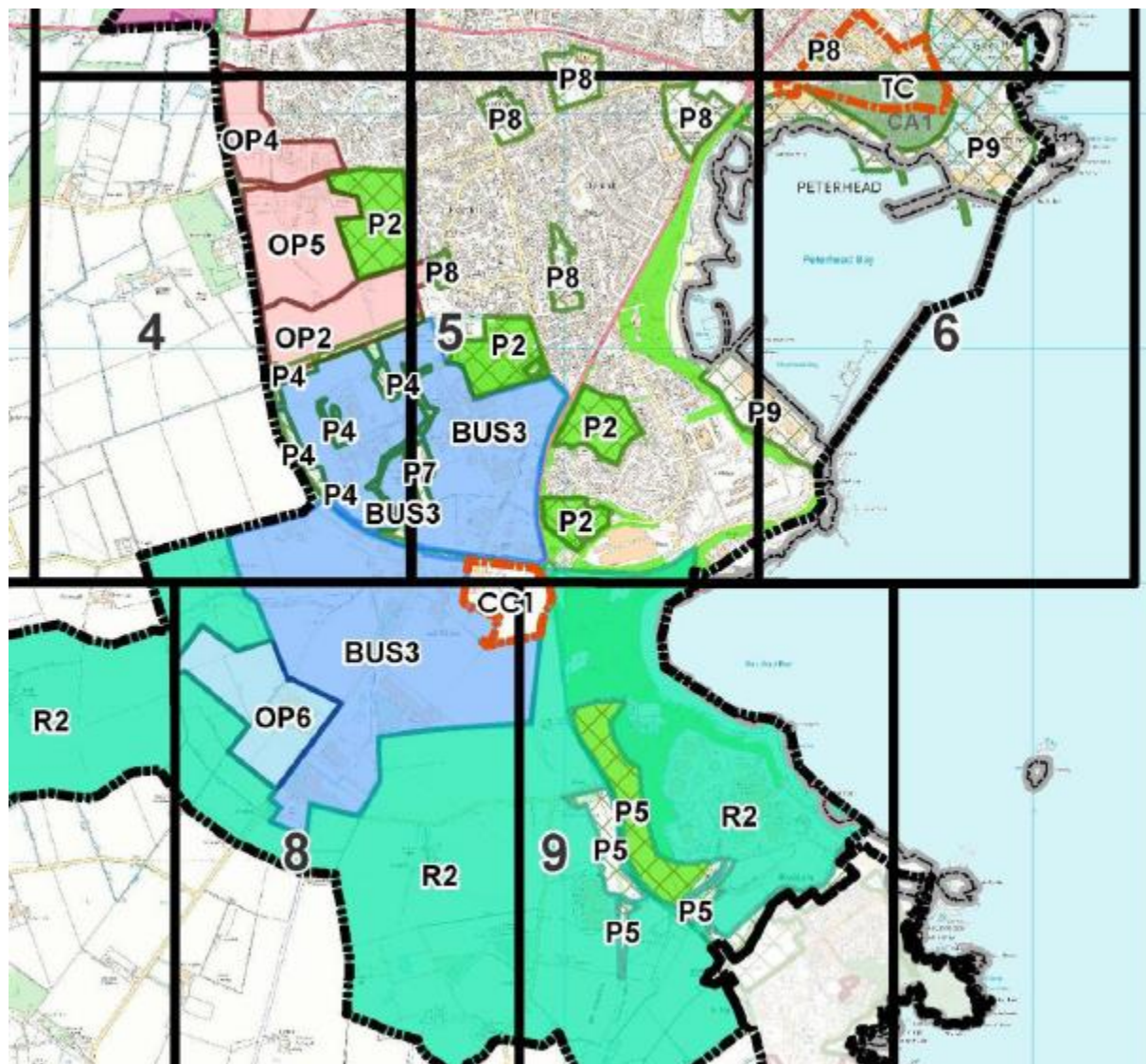
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Thank you

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