



Statoil

Statoil New York WEA – status and way forward

New York task force meeting

3 October 2017, Riverhead

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Presentation outline

- Introduction to Statoil
- Current and planned activities
- Stakeholder outreach activities

Statoil's four core areas



Norwegian continental shelf

Build on unique position

- Highly cost competitive
- Attractive project pipeline
- Exploration potential

International oil & gas

Deepen core areas

- Enhance Brazil portfolio
- Flexible US position
- New growth options



Midstream and marketing

Access premium markets

- Flow assurance
- Asset backed trading
- Capital light

Always safe
High value
Low carbon

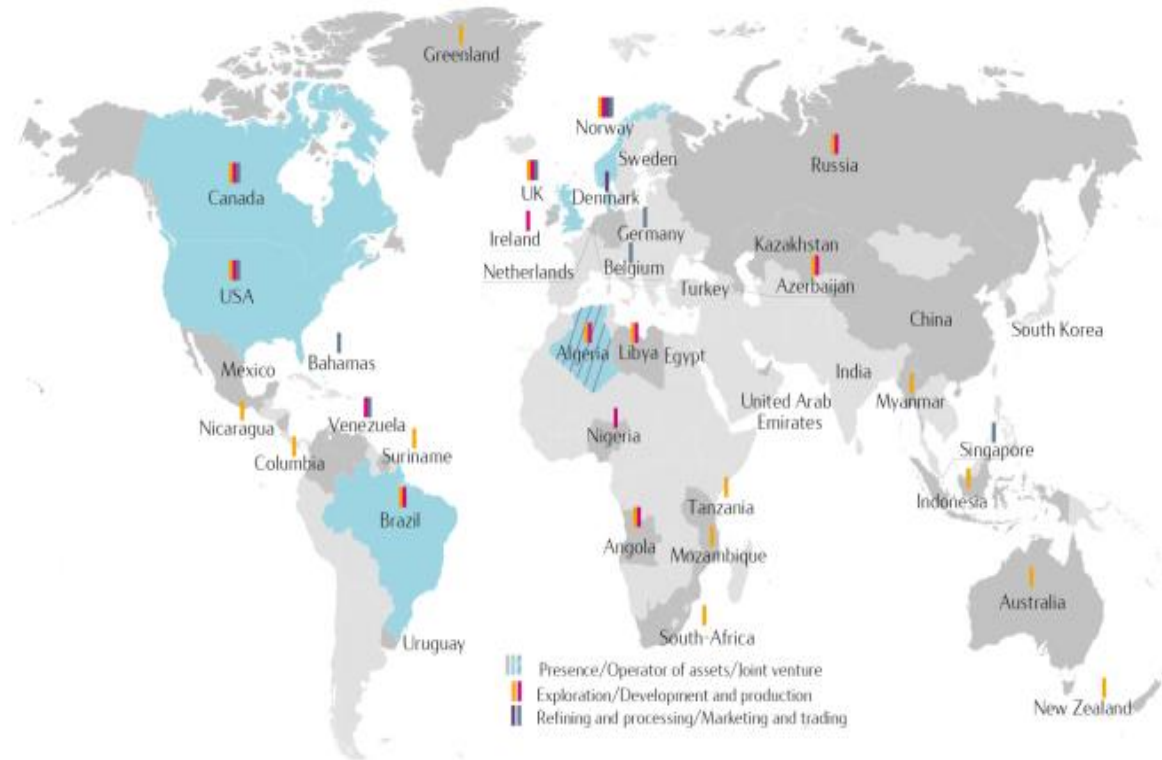
New energy solutions

Industrial approach

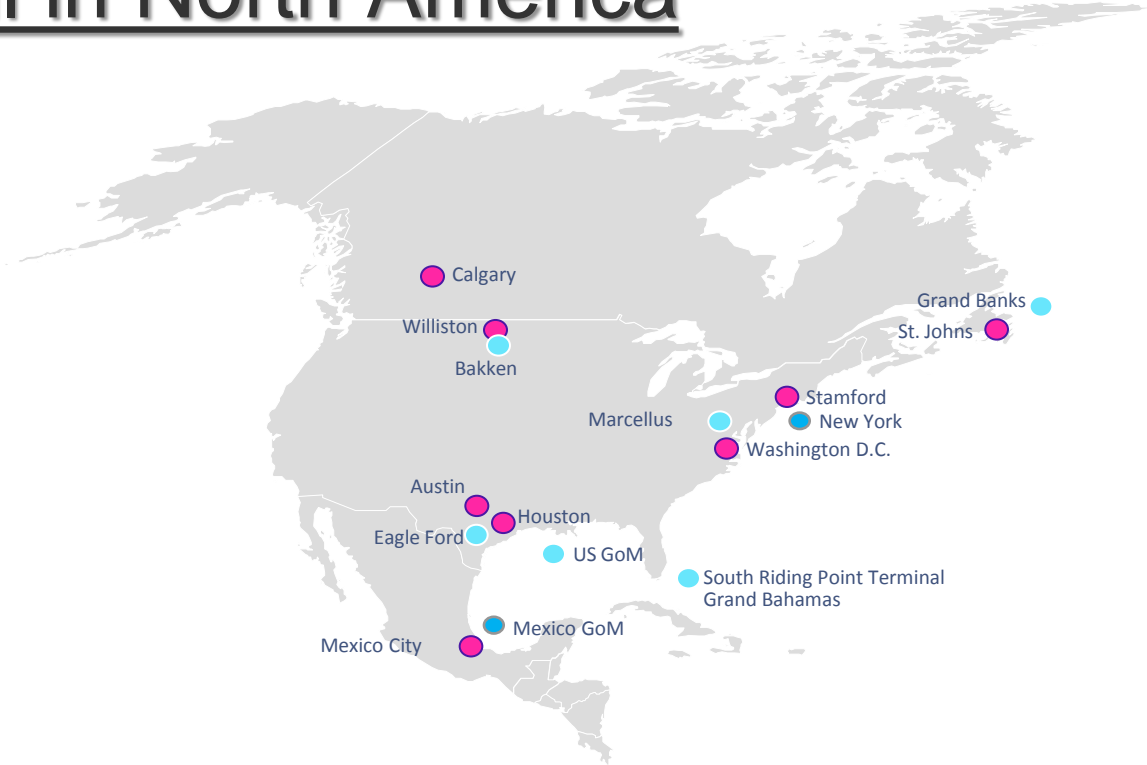
- Offshore wind
- Low-carbon solutions
- Ventures, R&D



Where we are



Statoil in North America



● Statoil Office ● Statoil Asset

New Energy Solutions

Build a **profitable renewables business**

OFFSHORE WIND



Fixed

Floating

SOLAR

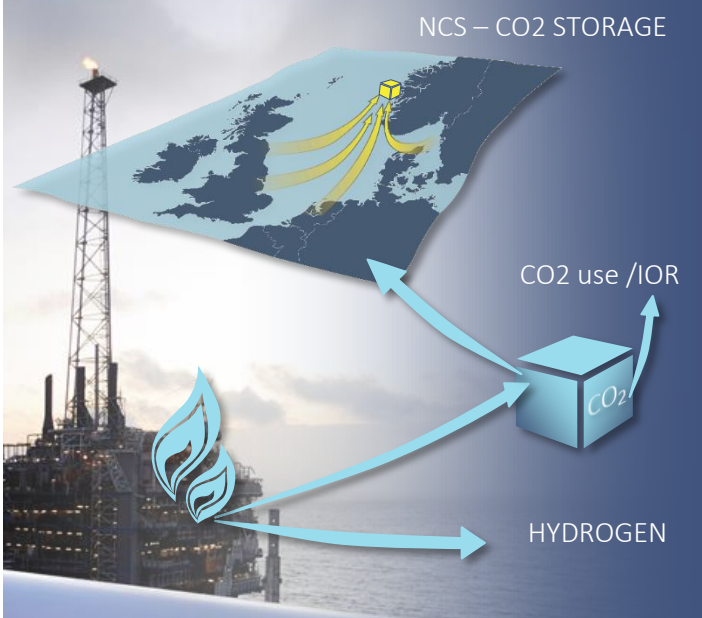


ENERGY STORAGE



Develop **new lower-carbon business opportunities** for Statoil's core products

NCS – CO₂ STORAGE



CO₂ use /IOR

CO₂

HYDROGEN

Providing offshore wind to >1M homes

Playing to our strengths



Offshore wind projects currently in progress delivering >1100 MW, and potential for 5m homes

Attractive markets



					North West Europe	United States East Coast	Japan US West Coast
	Hywind demo	Sheringham Shoal	Dudgeon	Hywind Scotland	Arkona	Dogger Bank	New York Hywind large scale
	In operation	In operation	Completed	Completed	In development	Consented	In development
	2.3 MW	317 MW	402 MW	30 MW	385 MW	3 x 1.2 GW	>1 GW
	2009-	2012-	2017	2017	2019	2020-	2024-?

* All capacity figures on 100% basis

New York Wind Energy Area

Site Key Data	
Area	79,350 acres (321 km ²)
Water Depth	65 – 130 ft
Distance to shore	14 – 28 miles
Mean Wind	9 – 9.25 m/s*
Hs (Mean / Max)	3,6 ft / 29 ft
Total Potential	1000 – 2000 MW**



Indicative development scenarios:

- Capacity: Phased - pending offtake
- Wind turbine size: 12+ MW
- First power: around 2024
- Operational lifetime: 25 – 30 years
- Number of interconnection points: 1 – 3 (subject to grid and offtake)

* NREL Wind Prospector

** Subject to suitable subsurface conditions

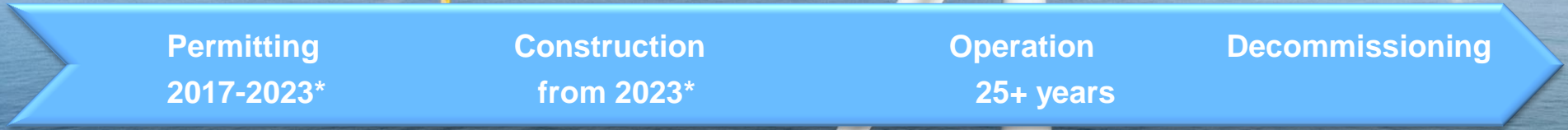
FLiDAR and Metocean Buoy Deployment



Wind Energy Facility Development



Stakeholder Consultation



* Preliminary – all pending approval timing and general progress

Environmental

- Birds & bats
- Marine mammals & turtles
- Fish & shellfish ecology
- Benthic ecology
- Marine protected areas, protected species
- Marine physical processes
- Marine sediment & water quality
- Terrestrial ecology

Other users

- Commercial fisheries
- Cultural heritage
- Shipping & Navigation
- Military
- Recreational use, shipping, fishing, tourism
- Visual
- Oil & gas, aggregates, mining, renewables
- Aviation

Siting constraints

- Water depth
- Wind resource
- Distance from shore
- Geology
- Grid connection points
- Wrecks, UXO, archaeology
- Cables, pipelines, installations



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