

# Floating Wind Turbines: Environmental Considerations

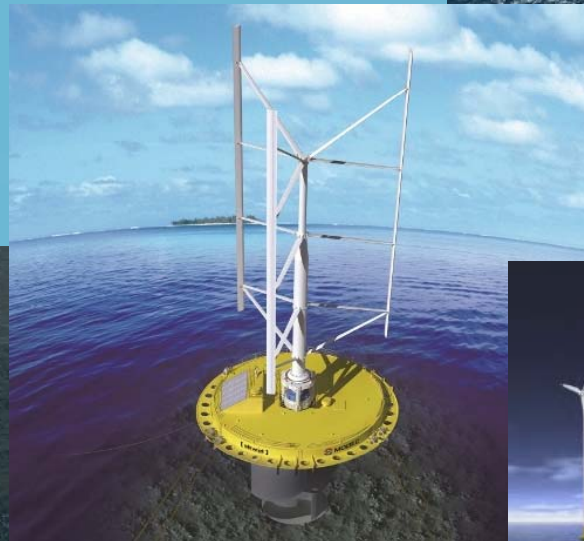
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# Floating Wind

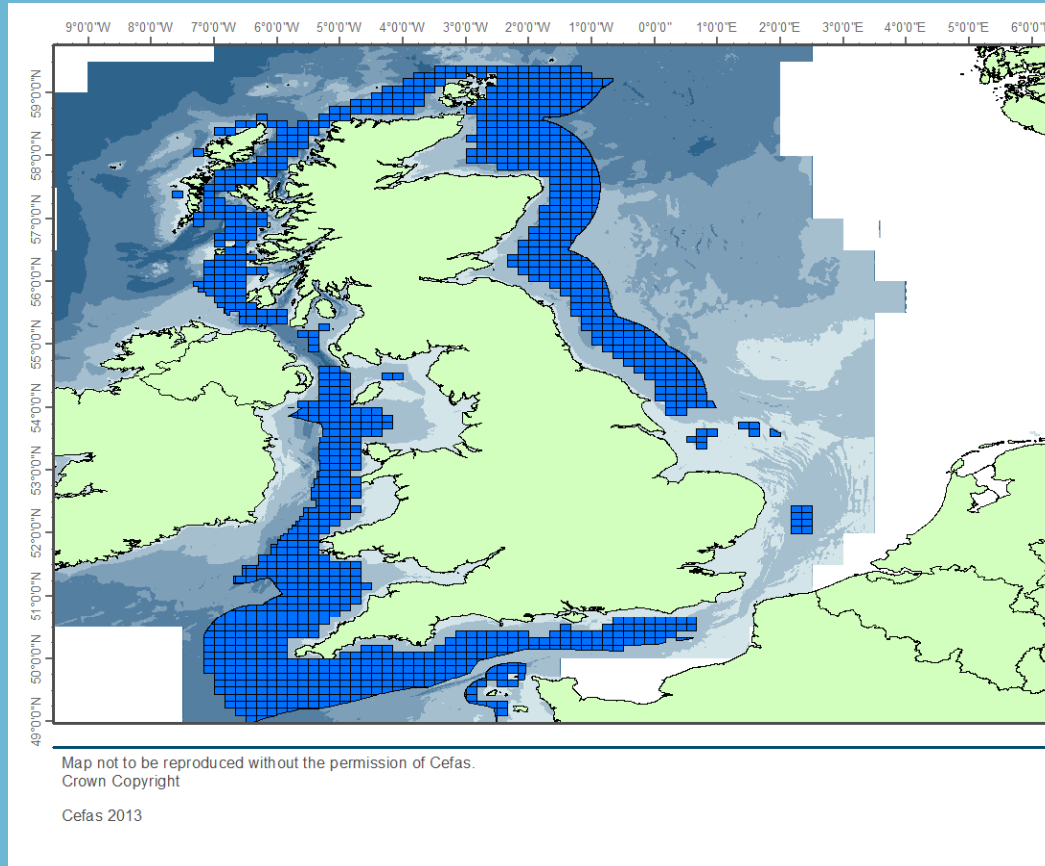
- Lots of different designs
- Few prototypes



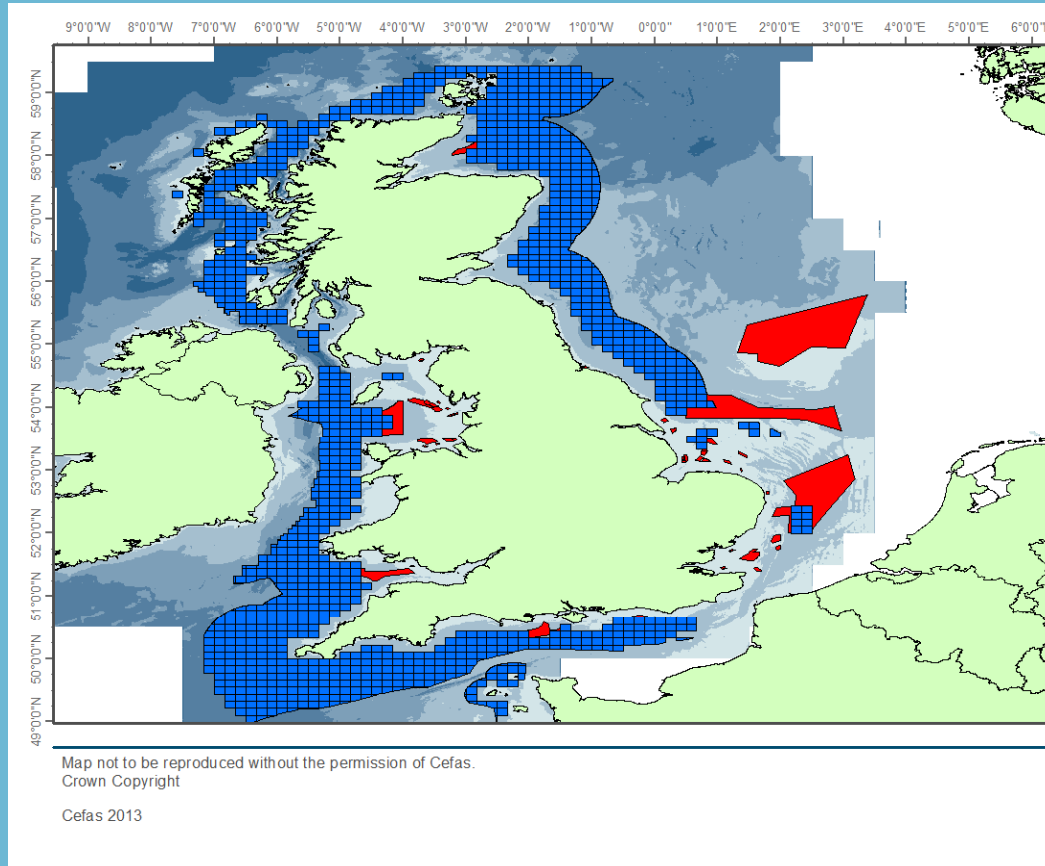
# Site Selection Factors



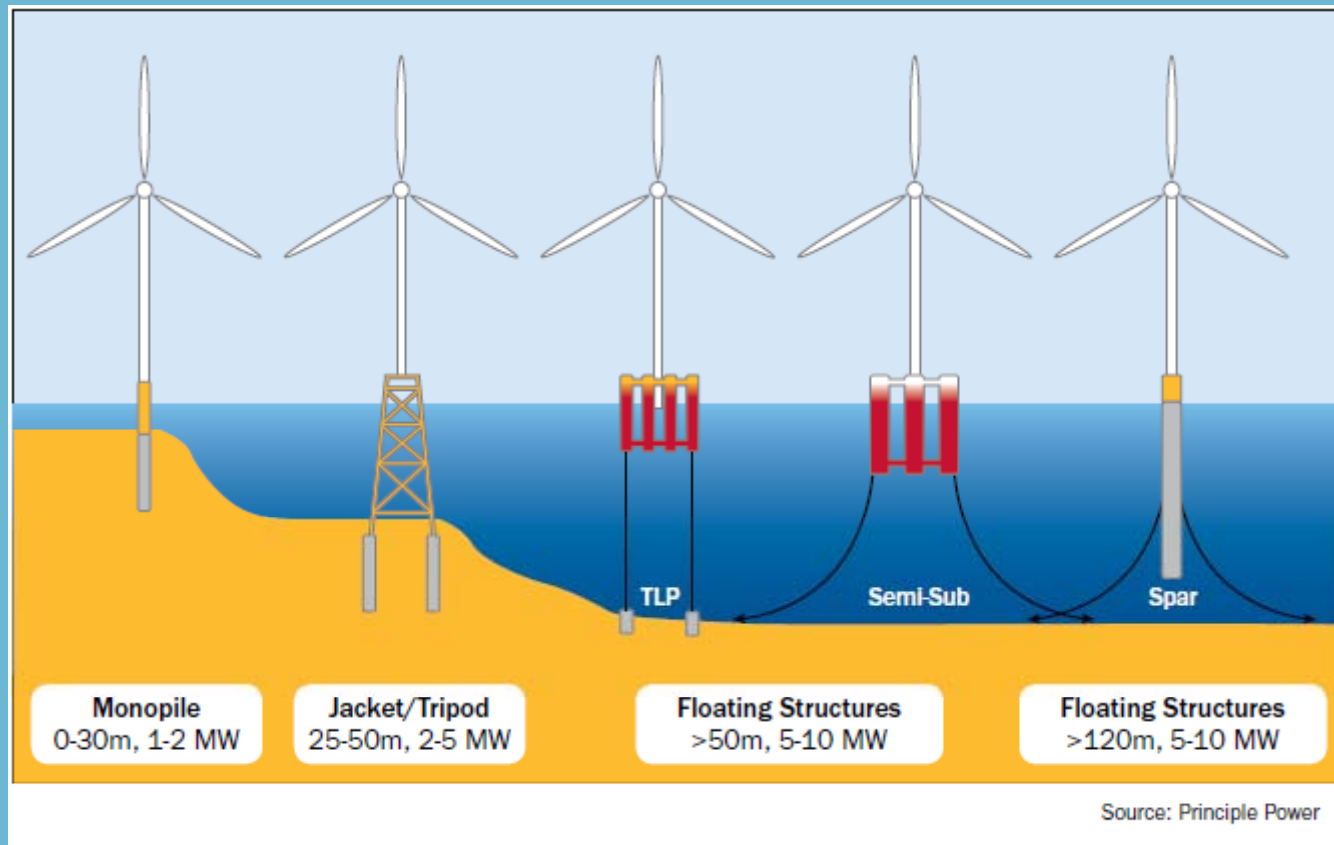
# Where?



# Where?

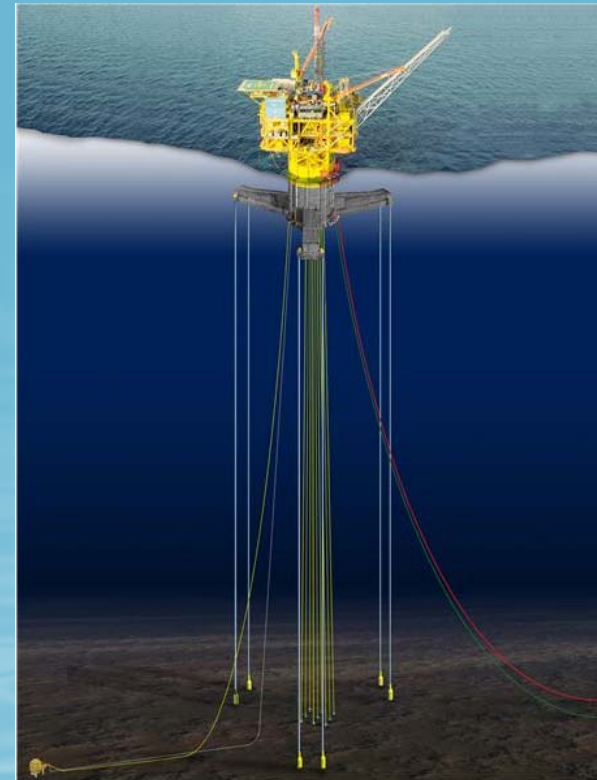


# Types



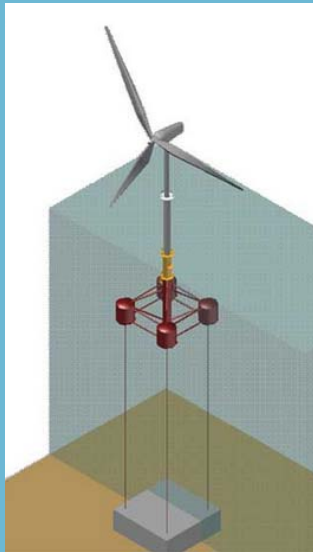
# Tension Leg Platforms

- Used in O&G Industry
- Deep waters
- Add 1 wind turbine
- In shallow water

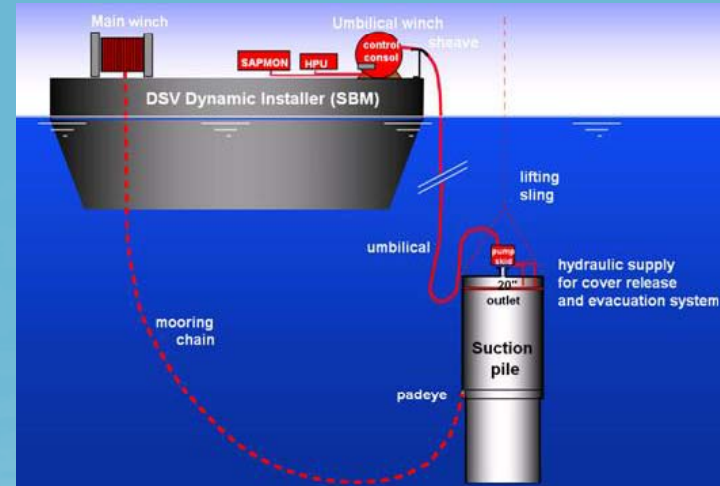


# Anchors

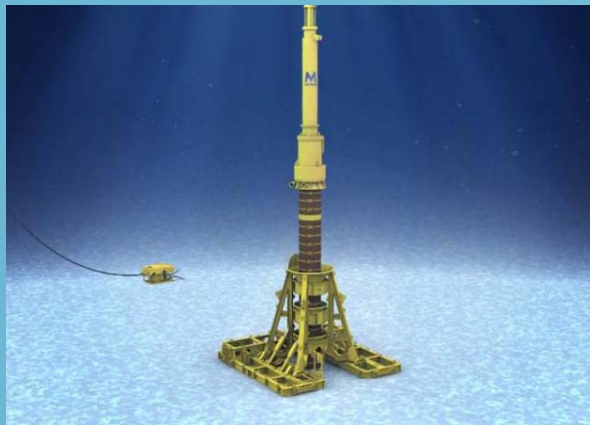
1.



2.



3.



4.





# Power cable

- Held to seabed
- EMF
- Sharks / turtles?



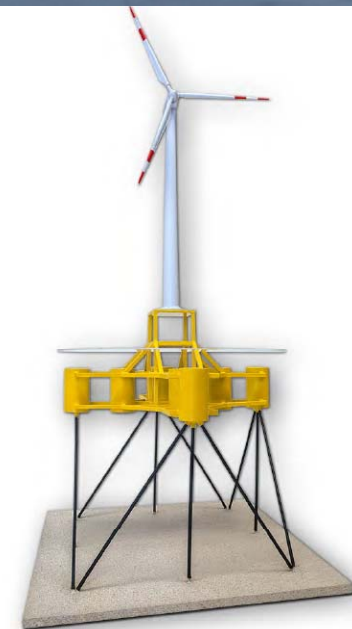
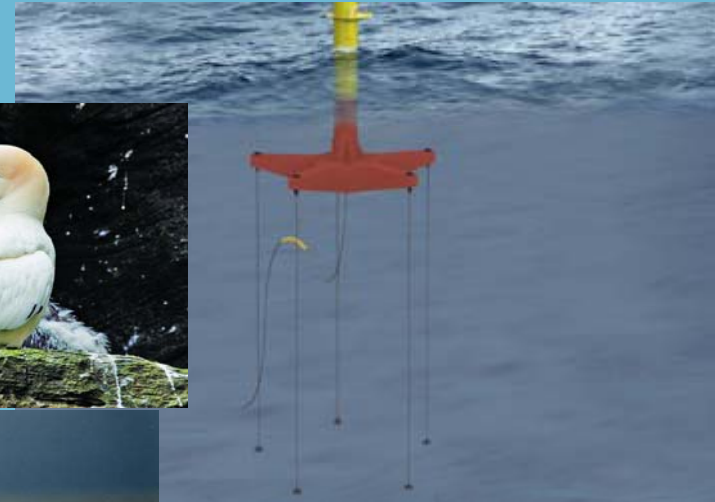
# Structure

- Hydrodynamics
- Biofouling
- Removal of biofouling?
- Fish attraction



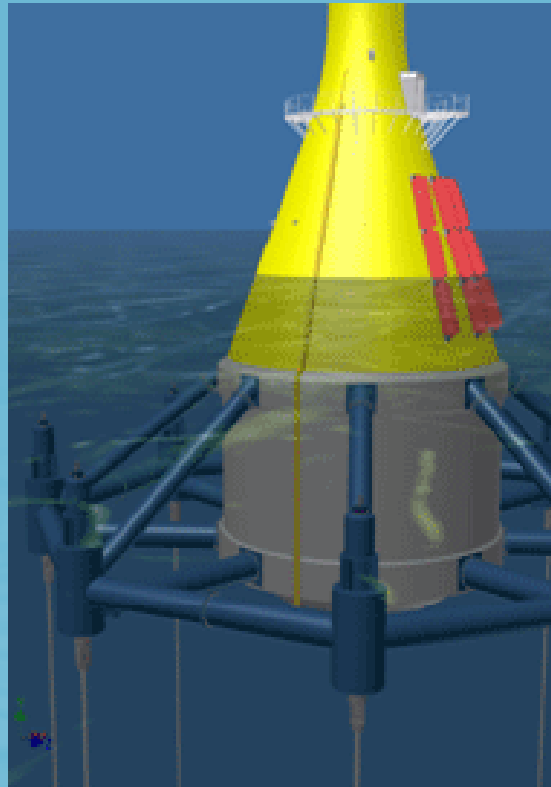
# “Key” Receptors

- Entanglement?
- Food?
- Roosting?
- Collision risk?



# Operational noise

- Operational noise
- Resonance?



# Summary

1. Construction: Similar to fixed wind
2. Operation: Unknowns
3. Decommissioning: depends on anchors