



Concrete for Wind Power Investments

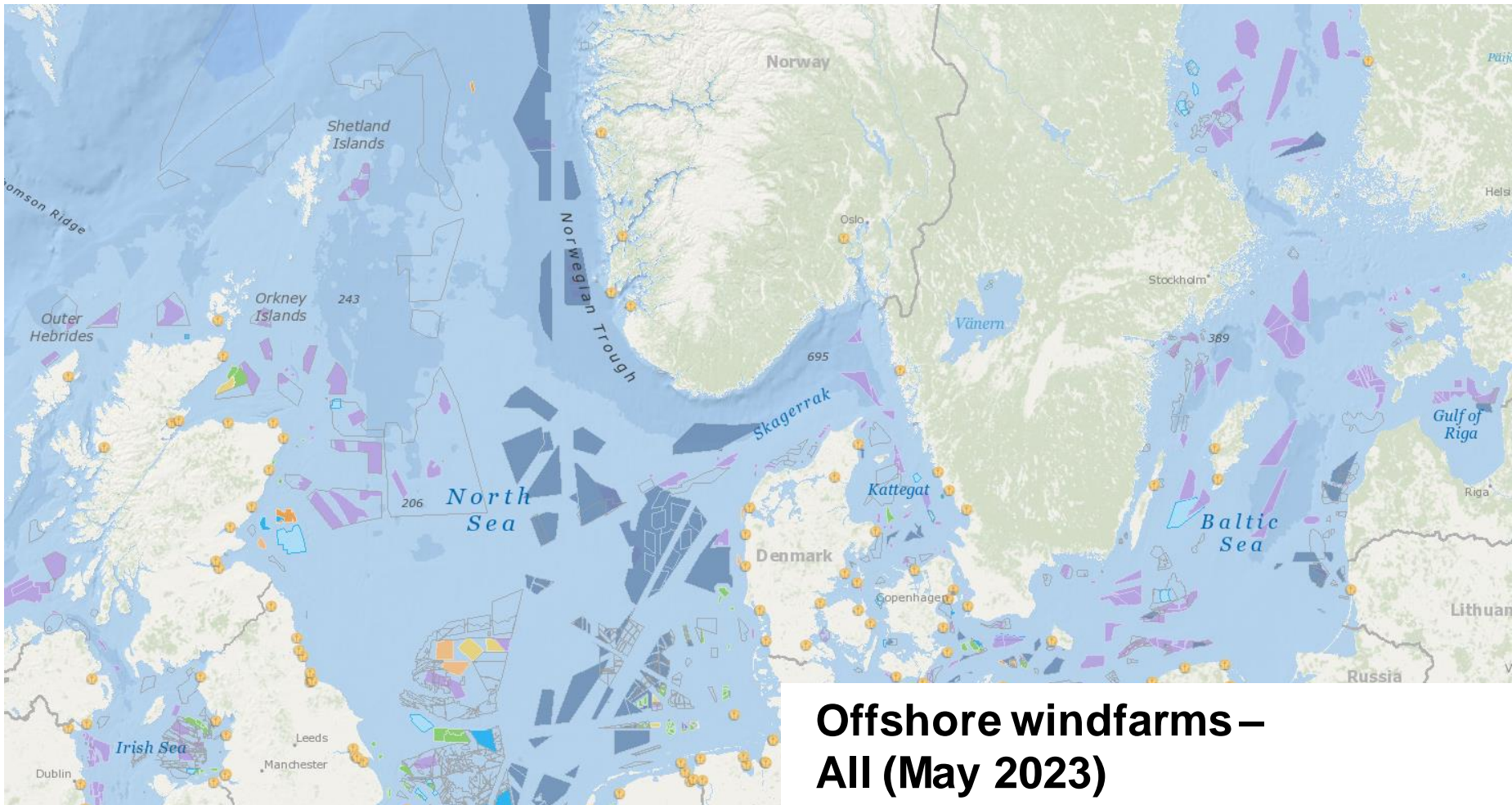
Holger Ecke, Head of Infrastructure Laboratory, Vattenfall R&D

Why Fossil-Free Living?

- Climate change
- Particulates
- Extortion

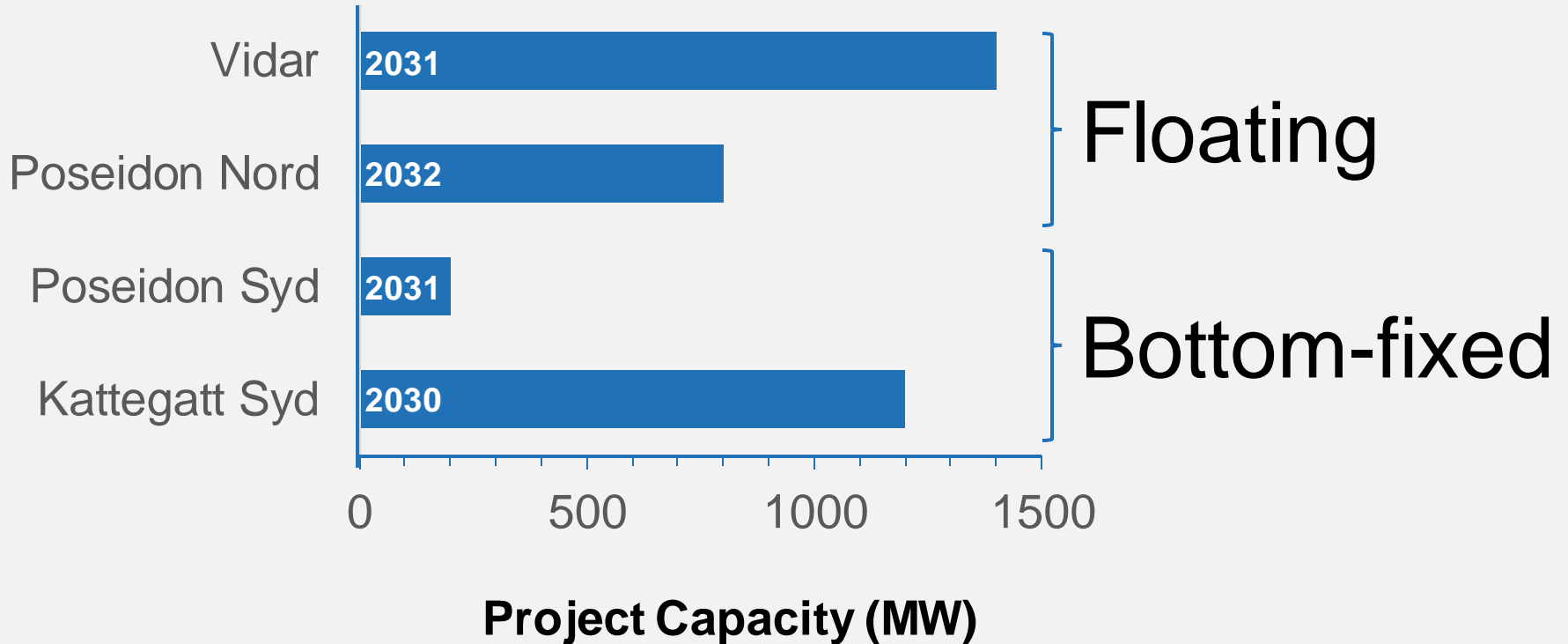






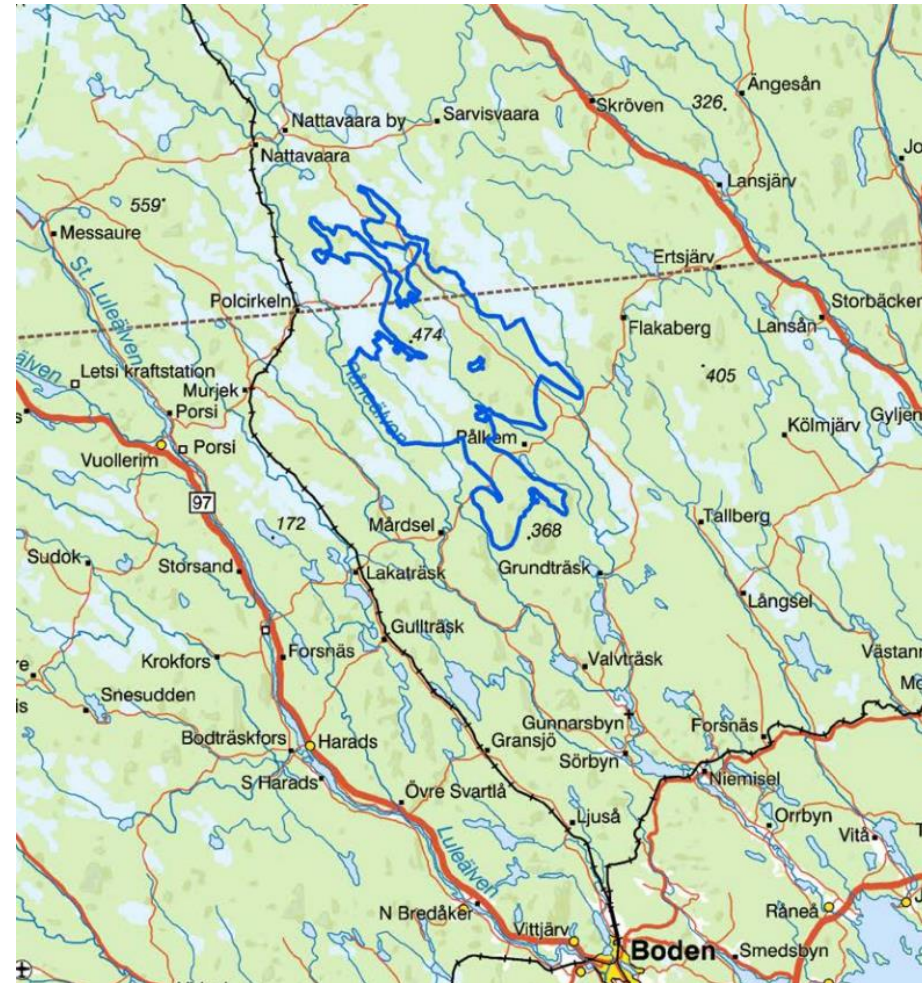
Offshore windfarms – All (May 2023)

Vattenfall Offshore Concepts in Sweden

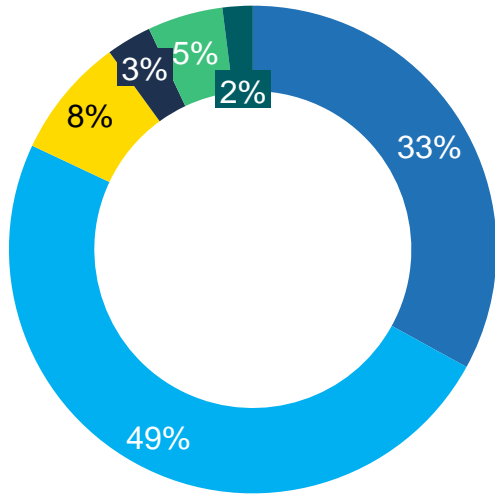


Vattenfall Onshore Concept in Sweden - Storlandet

- Capacity 2.6 GW
- Annual production ~9 TWh
- 373 wind mills à 7 MW
- Total height 295 m
- Consultation (*samråd*) ongoing
- Commissioned 2030



80% of our concrete is for the Wind business



- Offshore wind
- Onshore wind
- Large-scale solar
- Distribution
- Nuclear
- Others



Vattenfall commits to First Movers Coalition (FMC)

- FMC under the auspices of the World Economic Forum
- 10% of near-zero cement & concrete by 2030
- Targeting the entire supply chain, i.e. energy, transport & raw materials
- >27 companies developing decarbonized cement & concrete
- >13 products potentially meeting FMC benchmark for cement & concrete

