



IPLOCA

TOGETHER - DELIVERING SUSTAINABLE ENERGY INFRASTRUCTURE

Offshore Wind: Challenges & Opportunities

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David Lukas, IPLOCA Director, East and Far East

About me



David Lukas
Managing Director
ajlucas.com.au

IPLOCA
Director East and Far East
Energy Transition Committee



- Founded in 1958 in Sydney, Australia
- Energy and Infrastructure Services
 - Pipelines
 - Drilling
 - Facilities

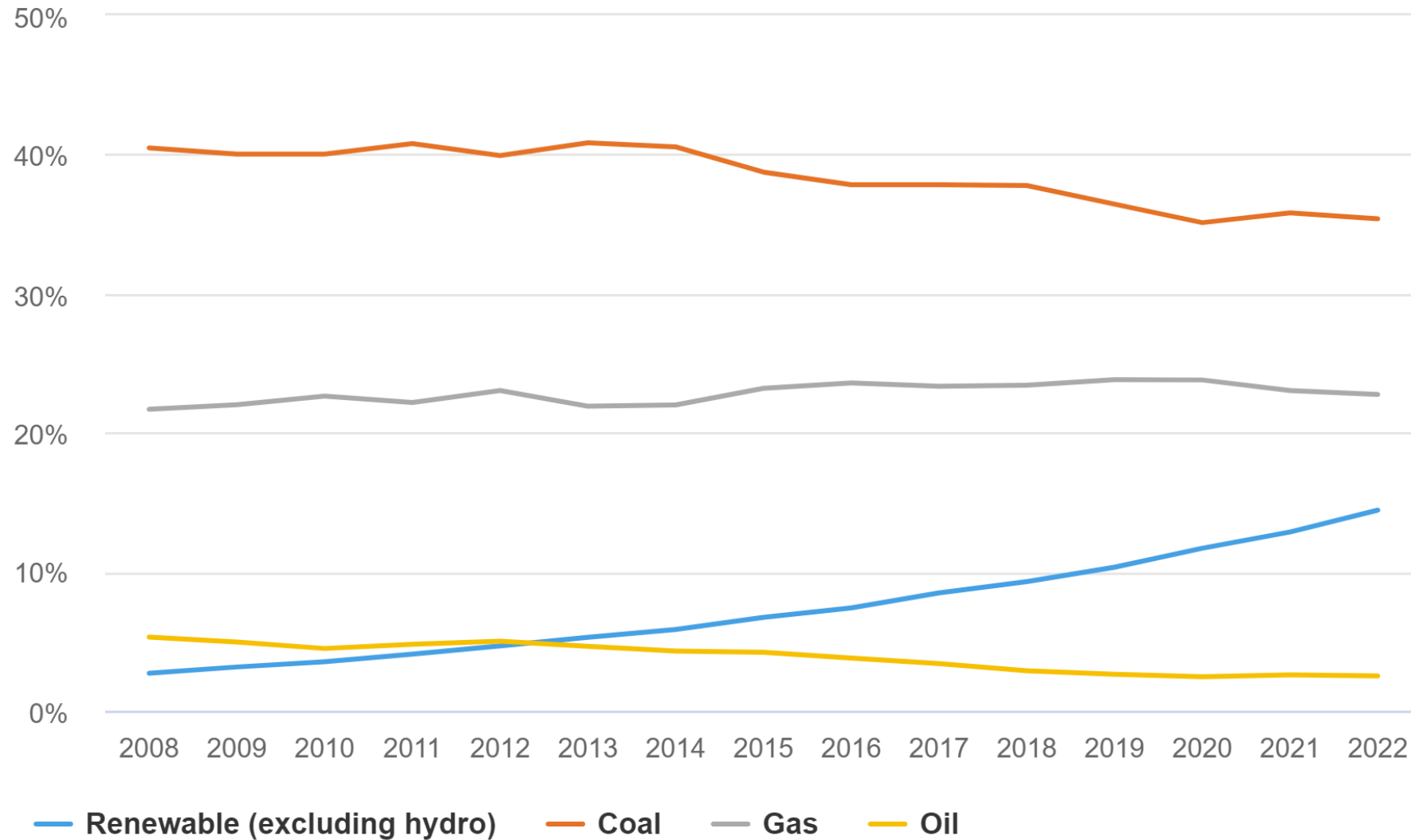


No heroes or villains – just observations



Changing mix of generation

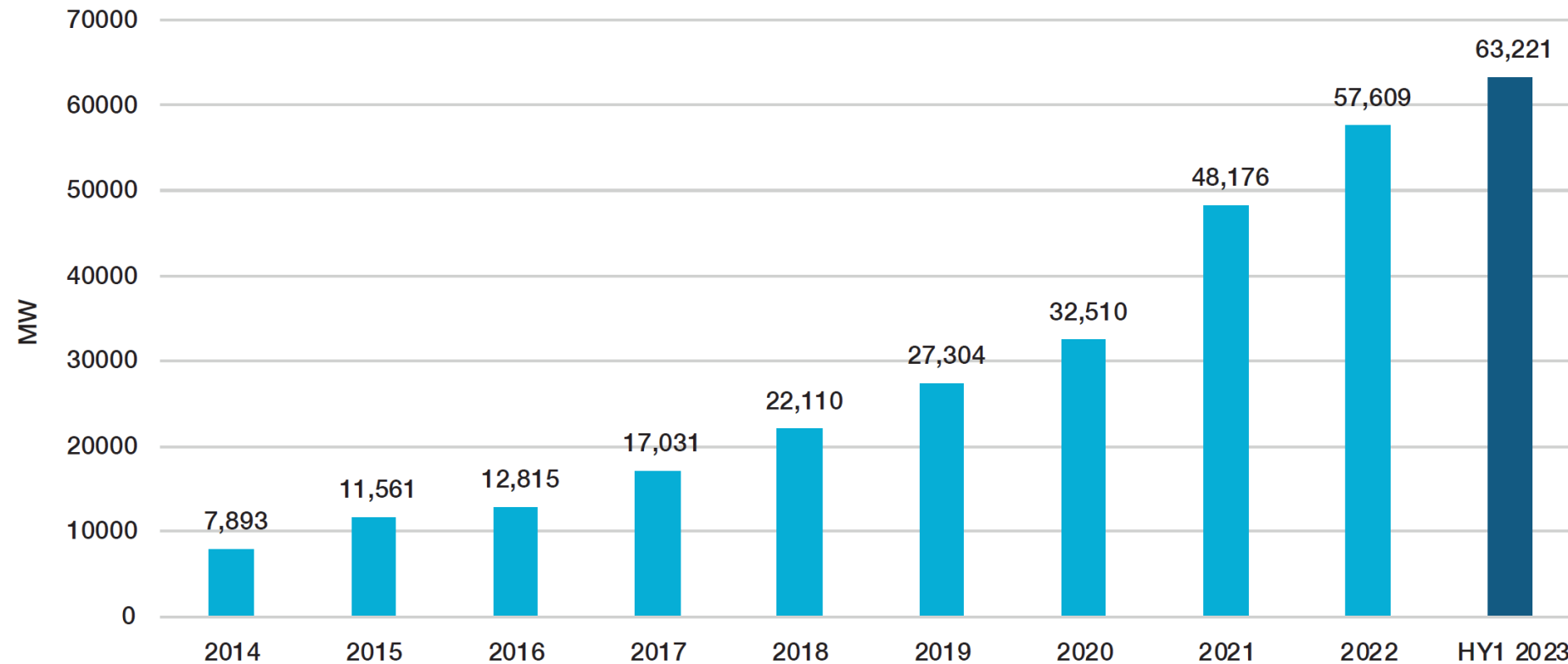
Power by Fuel



Global Capacity over 60 GW

Global offshore wind capacity² in operation - Cumulative

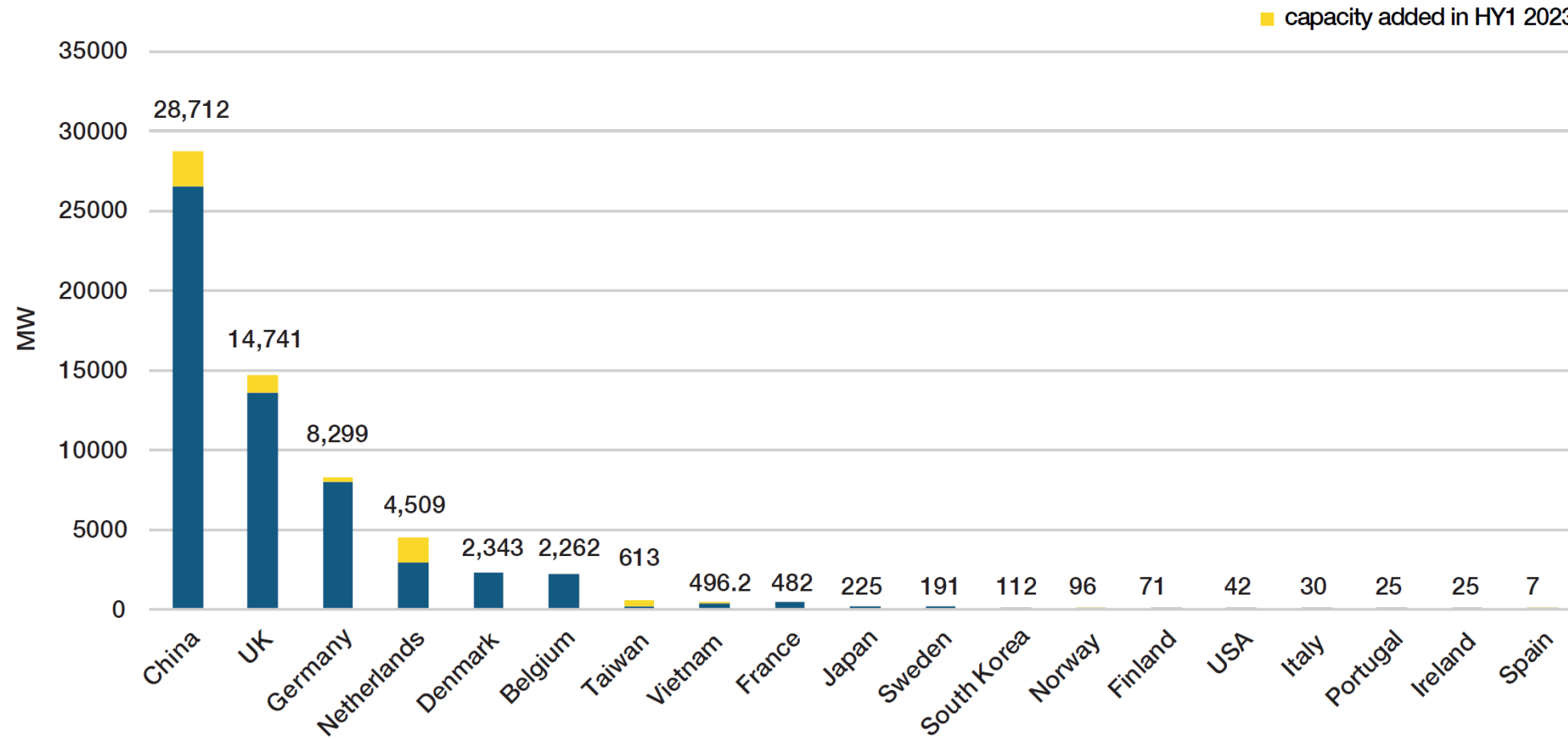
IN OPERATION



Global Capacity over 60 GW

Global offshore wind capacity in operation³ – by country

IN OPERATION



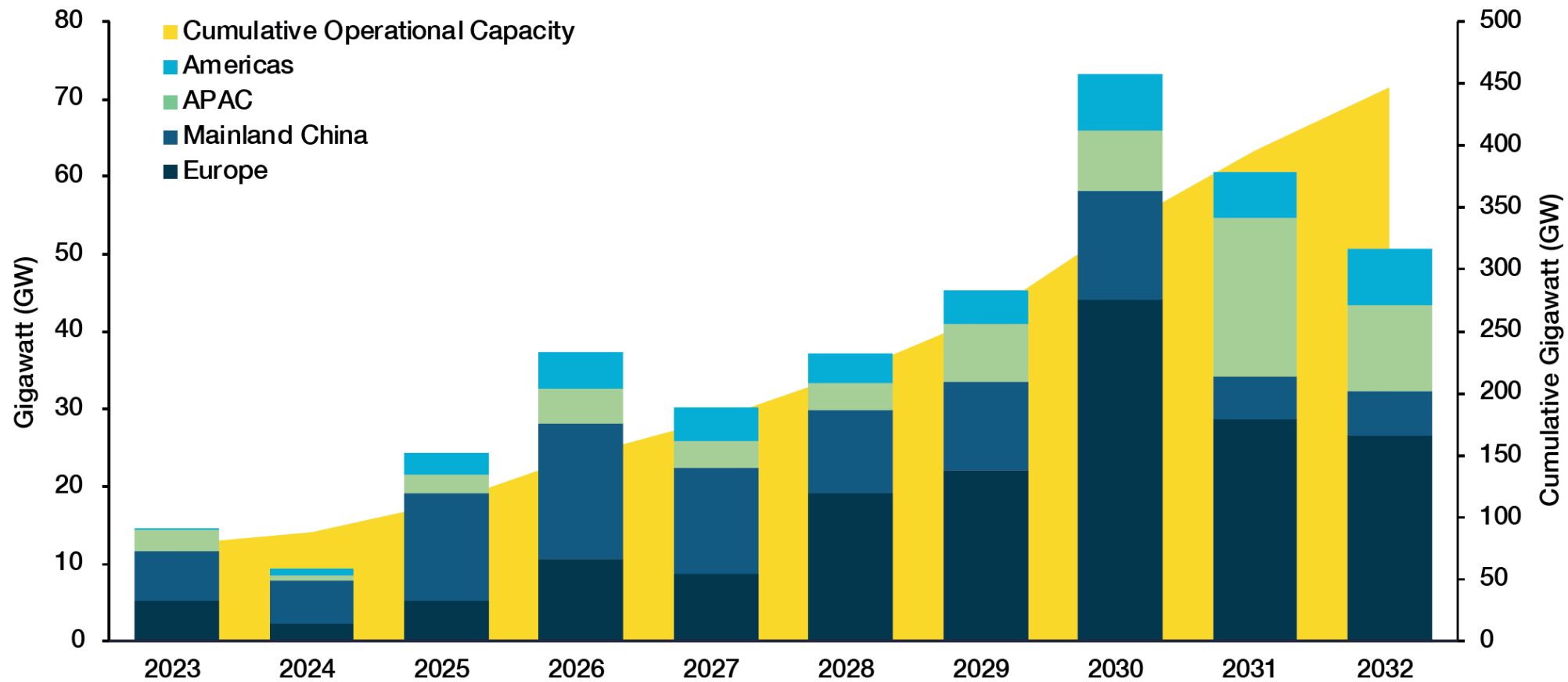
\$1tn Offshore Wind Coming



Global Annual Capacity Installations 2023-2032



Westwood
Global Energy
Group

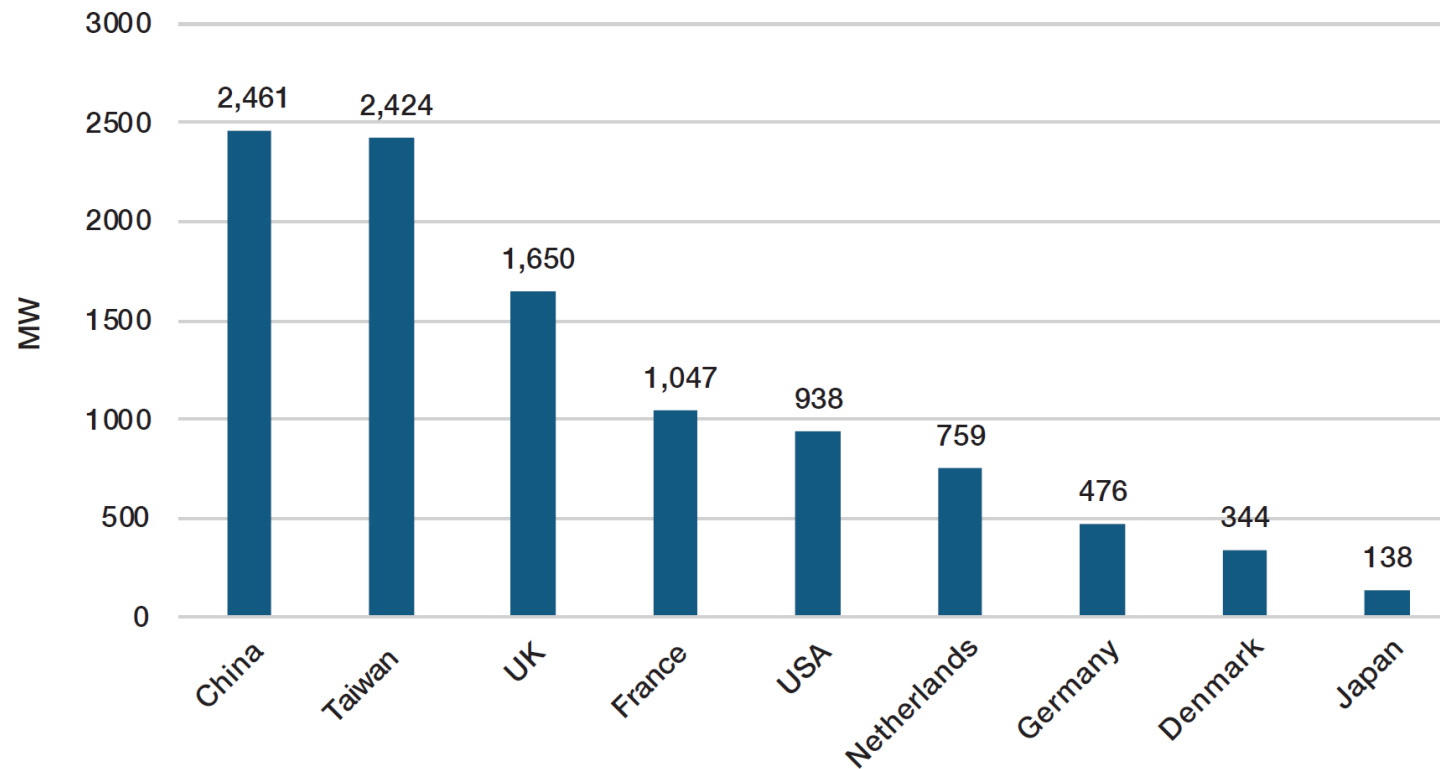


Source: Westwood WindLogix

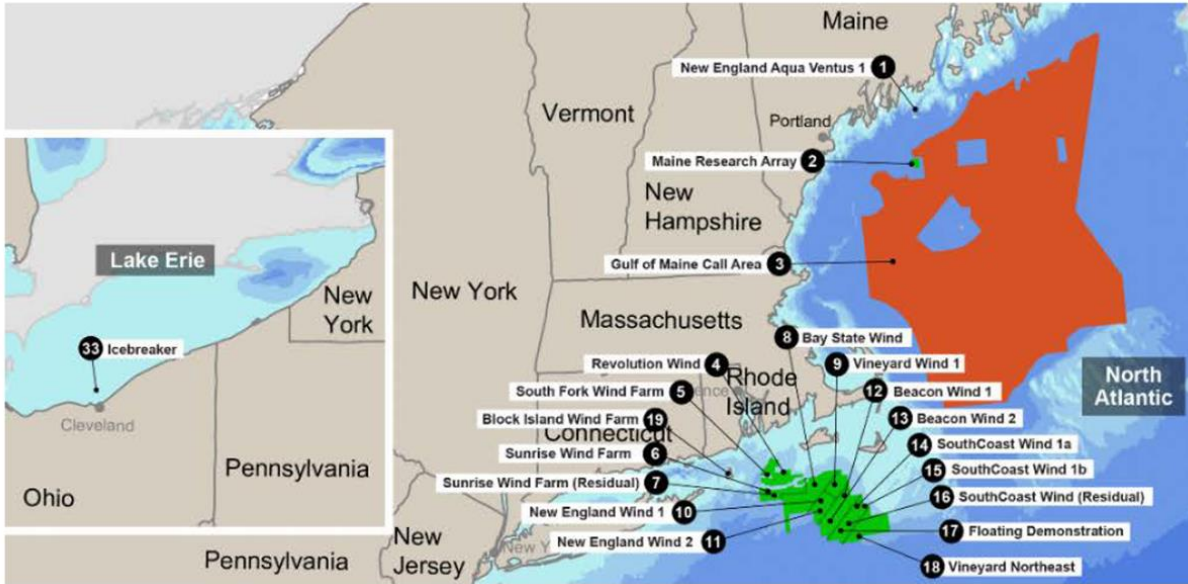
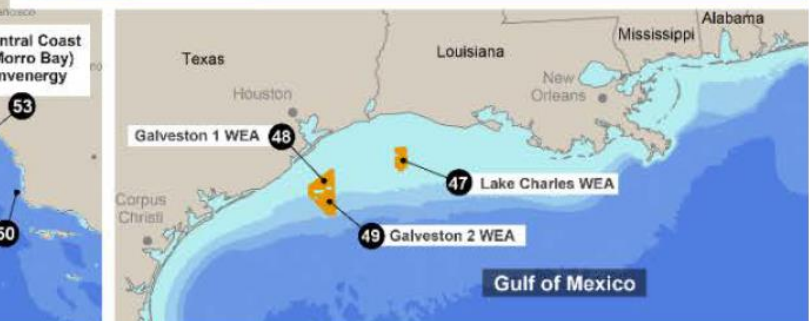
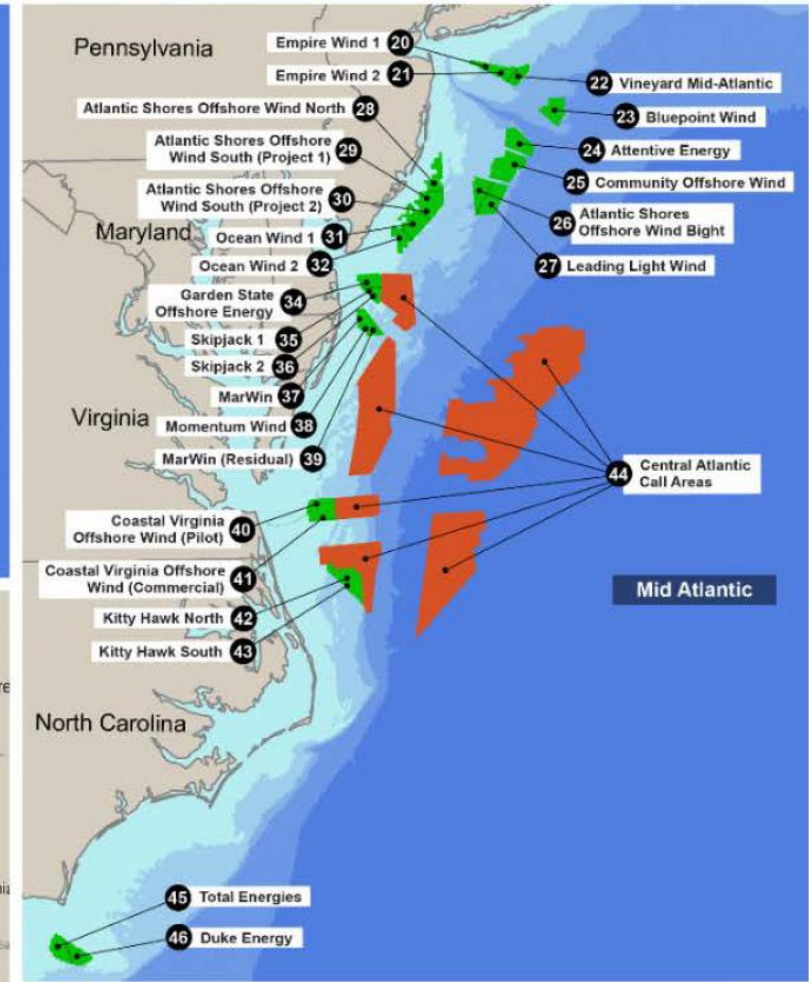
Under construction

Global offshore wind capacity under construction⁴ by the end of HY1 2023

UNDER
CONSTRUCTION



USA Projects



California Offshore Wind



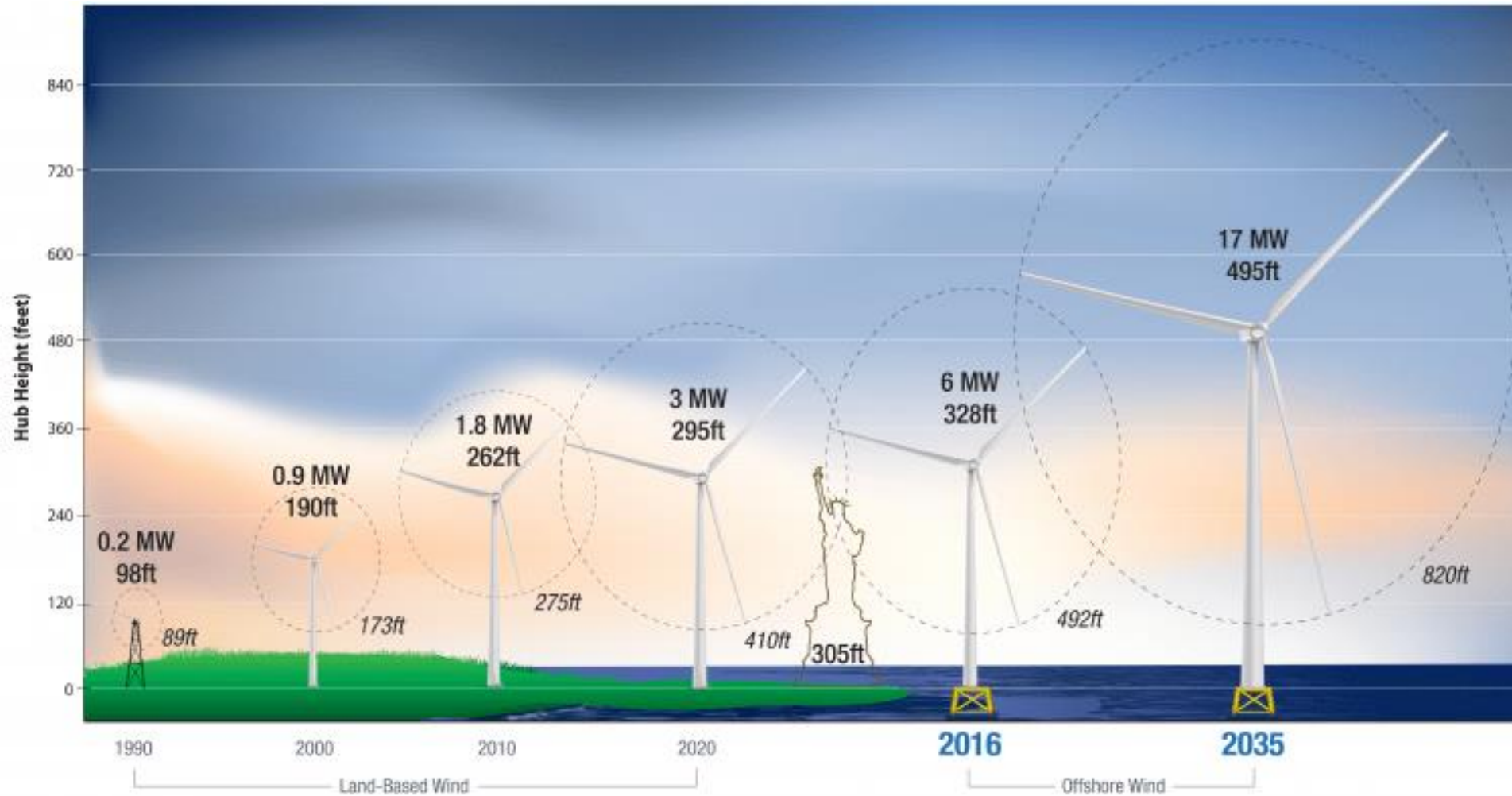
Offshore Wind
California



Adam Stern,
Executive Director

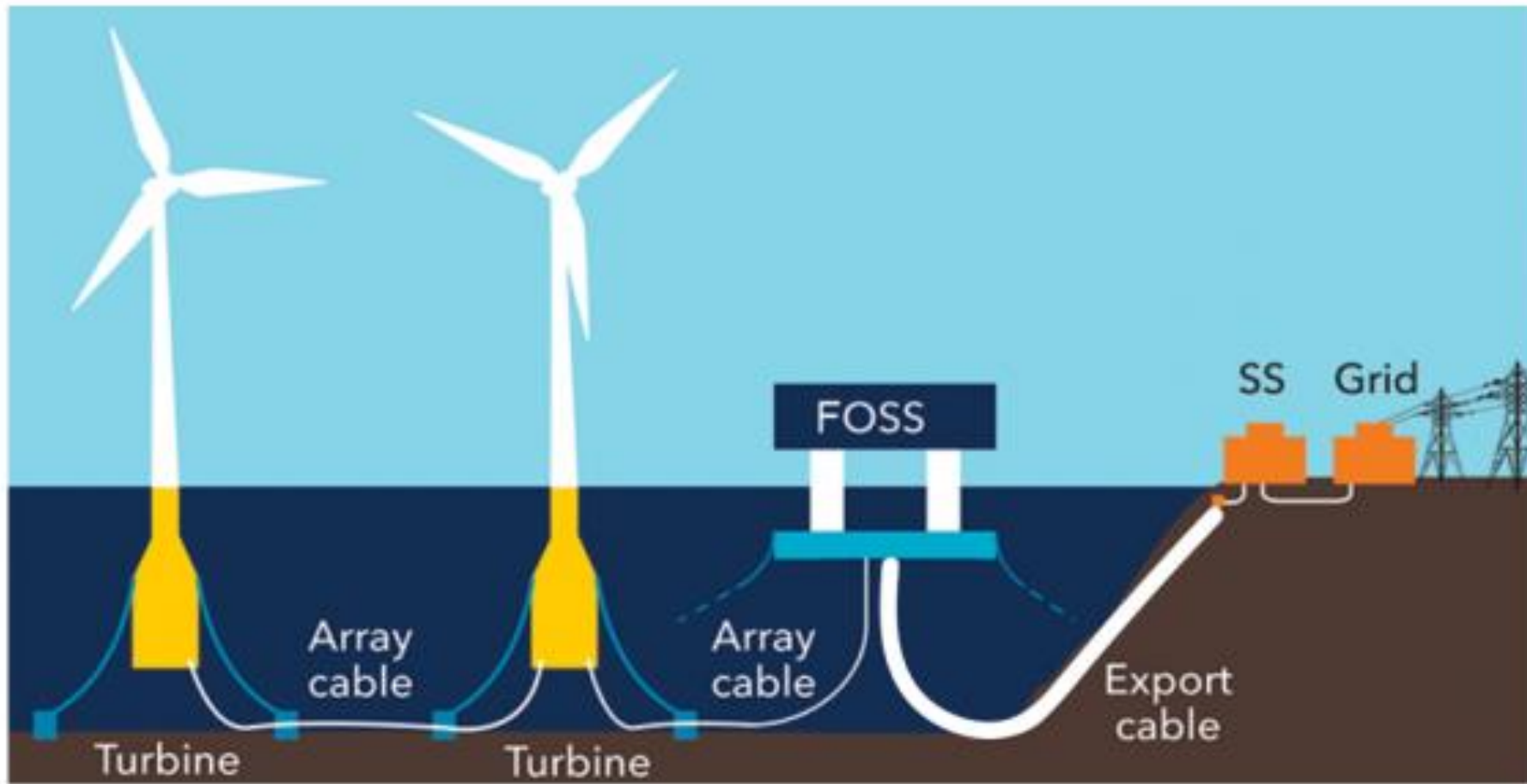


Turbines are getting bigger



Wind Turbine Capacity (Megawatt) | Hub Height (feet)
Rotor Diameter (feet)

Offshore-onshore infrastructure



Six Key Challenges (and opportunities?)



1. Procurement

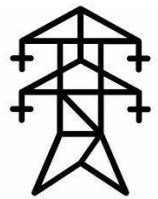


Six Key Challenges (and opportunities?)



2. Ports

Six Key Challenges (and opportunities?)



3. Transmission

Six Key Challenges (and opportunities?)

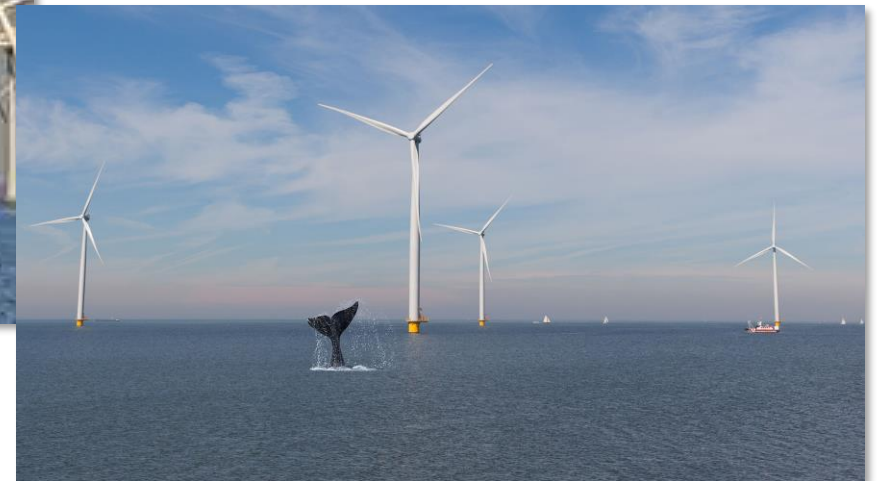


4. Permitting

Six Key Challenges (and opportunities?)



5. Siting



Six Key Challenges (and opportunities?)



6. People



Thank you



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