CAL POLY
SAN LUIS OBISPO

California Marine Renewable Energy Commercial and Industrial Support Environment

Marine Energy Technology and Deployment Panel

William Toman, Cal Poly, San Luis Obispo

BOEM Offshore Renewable Energy Workshop
Sacramento, CA
July 30, 2014

Why California?

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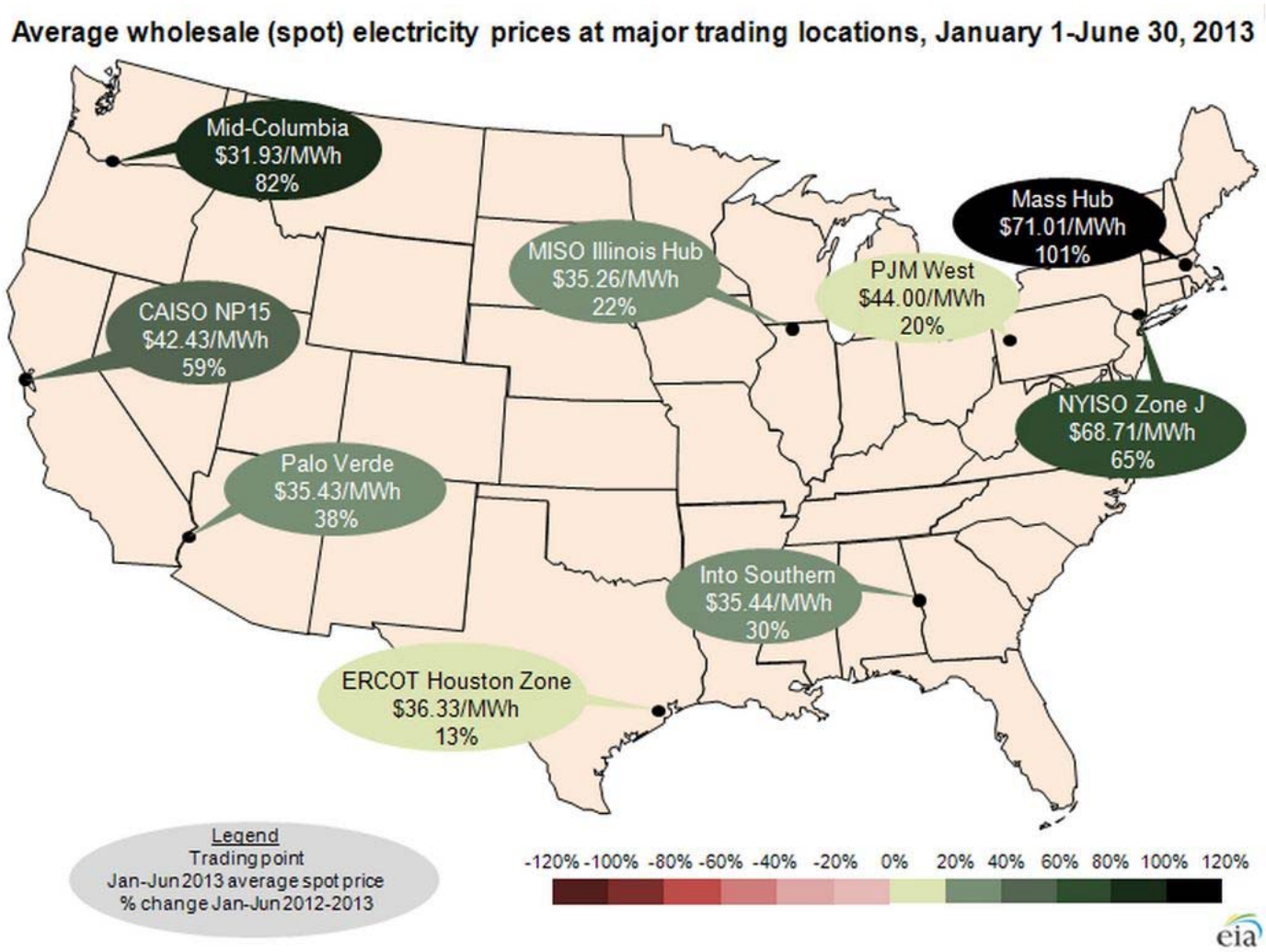
- Biggest Power Market in U.S. = 60,000 MW
- Highest West Coast Electricity Prices (AK & HI Are Higher)



Why California?

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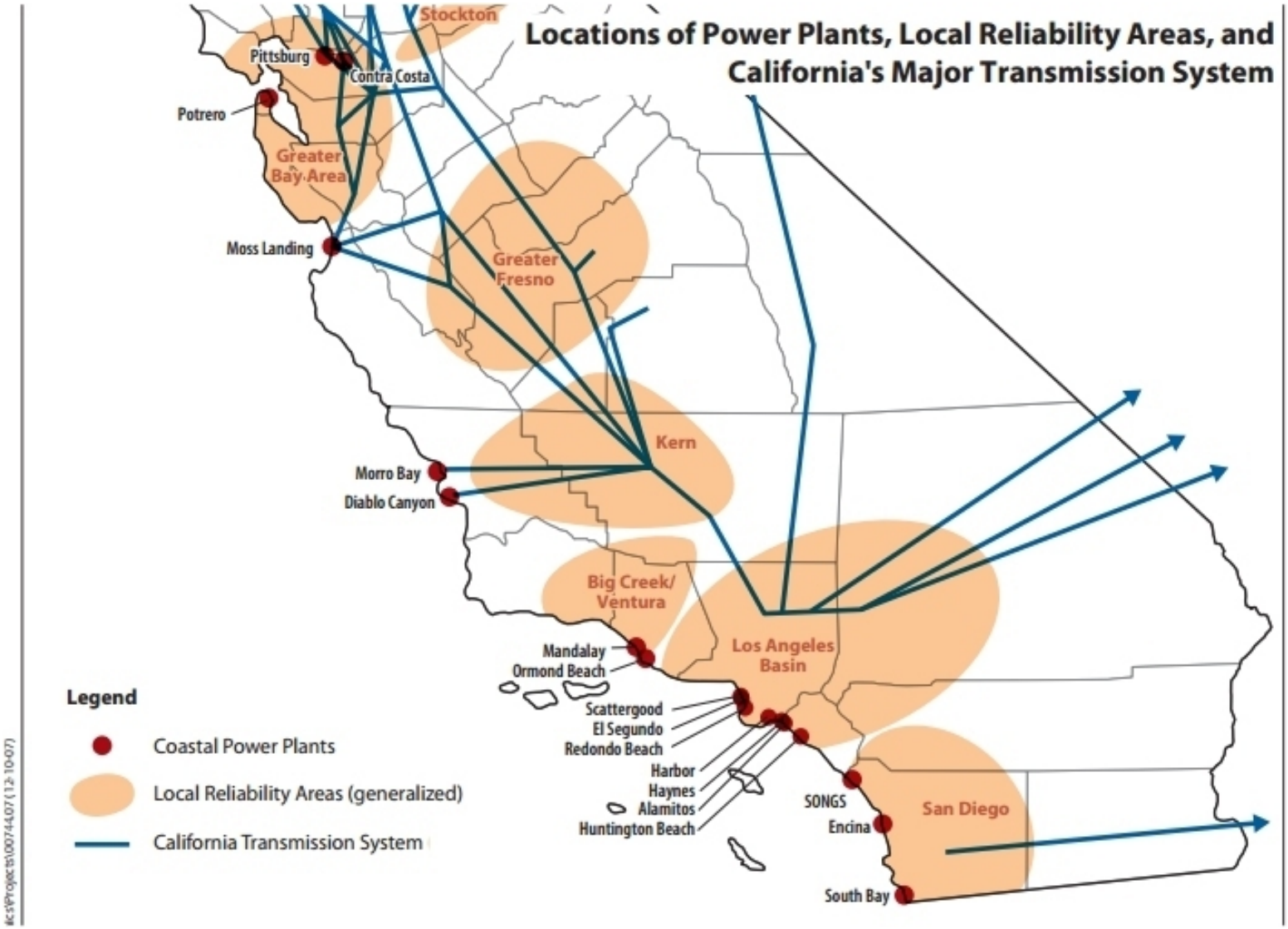
•Largest Coastal Grid Infrastructure Potentially Available for New Generation



Why California?

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- Industrial Ports
  - Humboldt Bay
  - San Francisco / Oakland
  - Port Hueneme
  - Los Angeles / Long Beach
  - San Diego

Why California?

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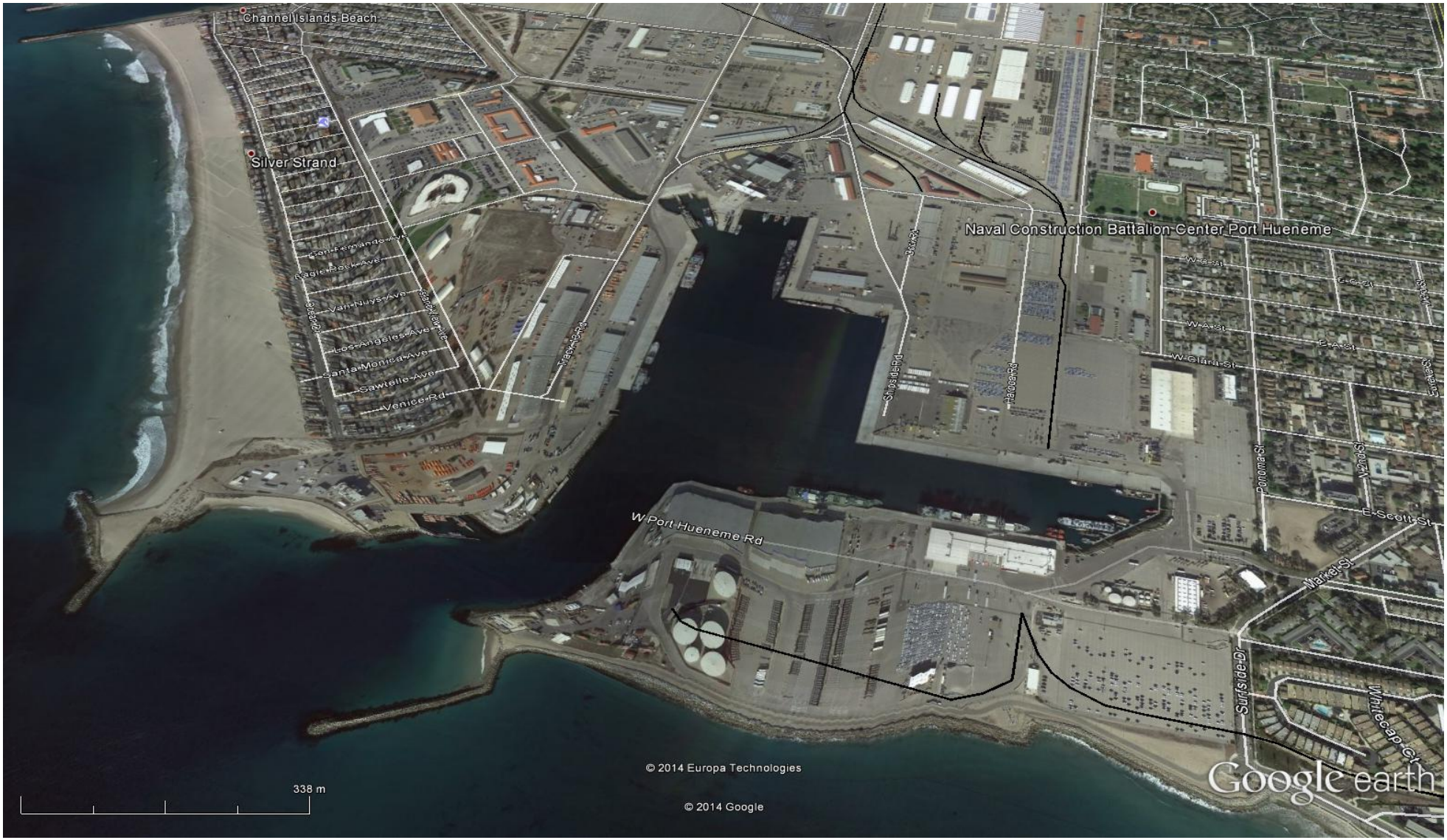
- Industrial Ports: Port Hueneme



Why California?

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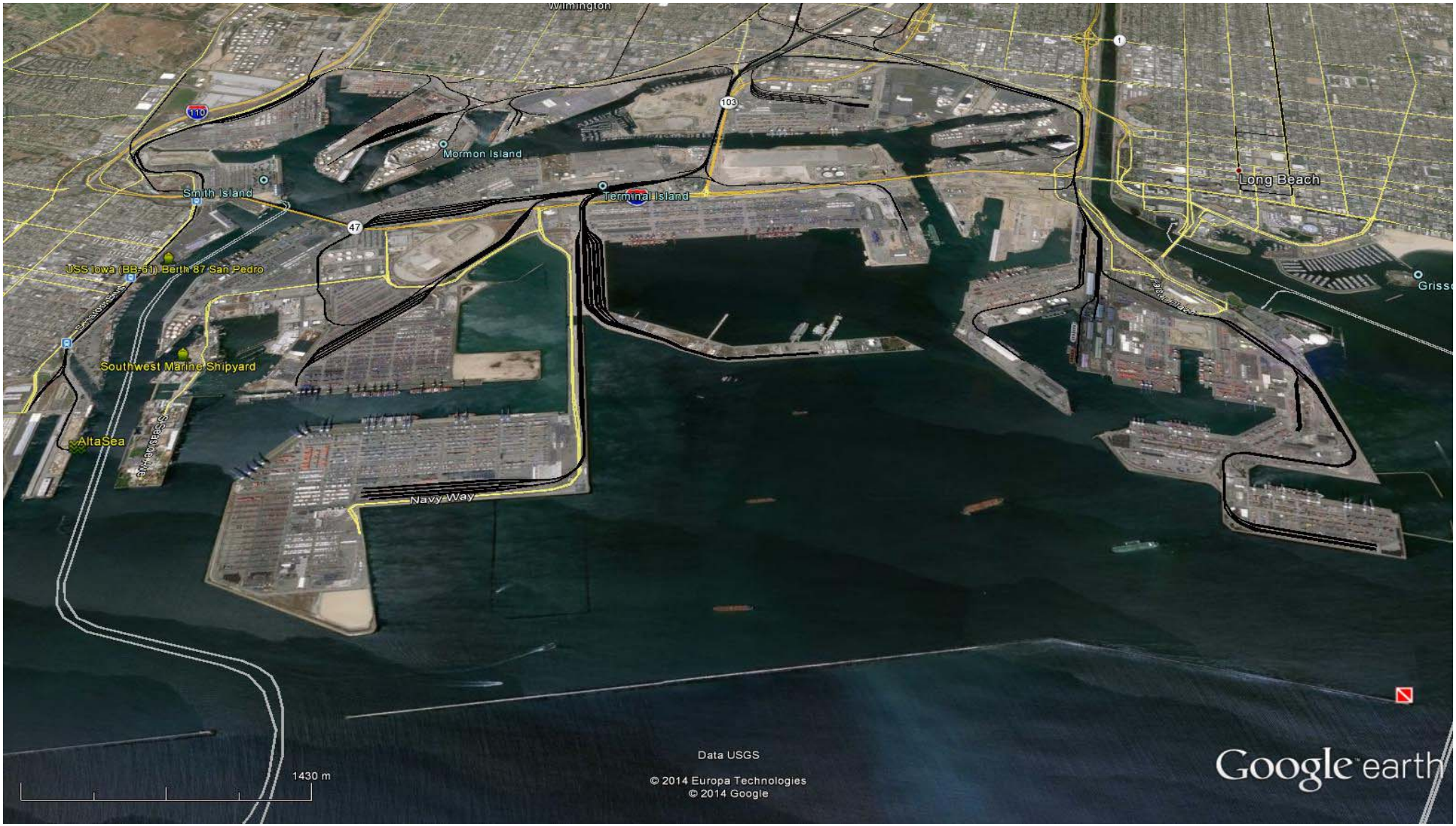
- Industrial Ports: Port of Los Angeles / Long Beach



Why California?

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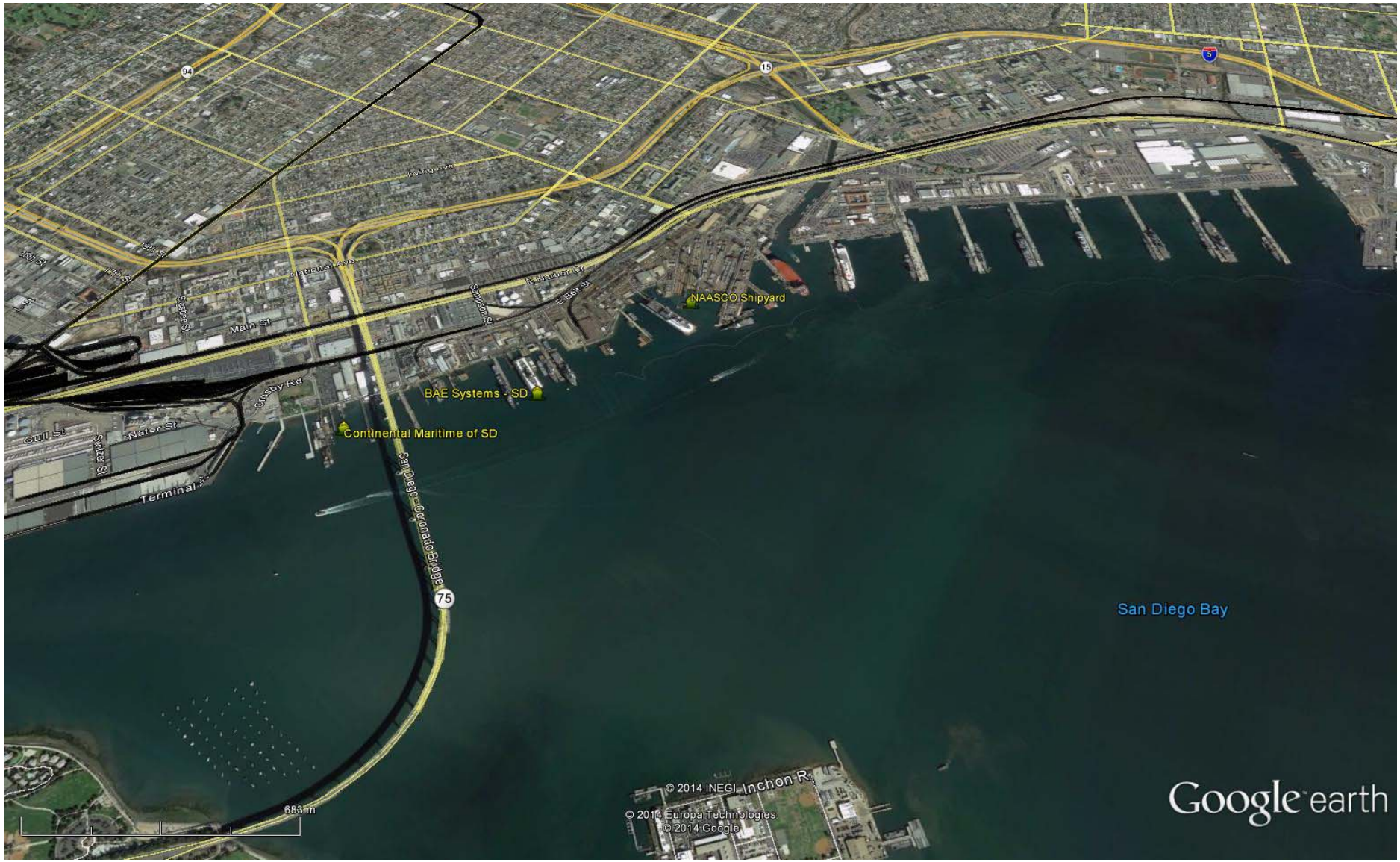
- Industrial Ports: Port of San Diego



Why California?

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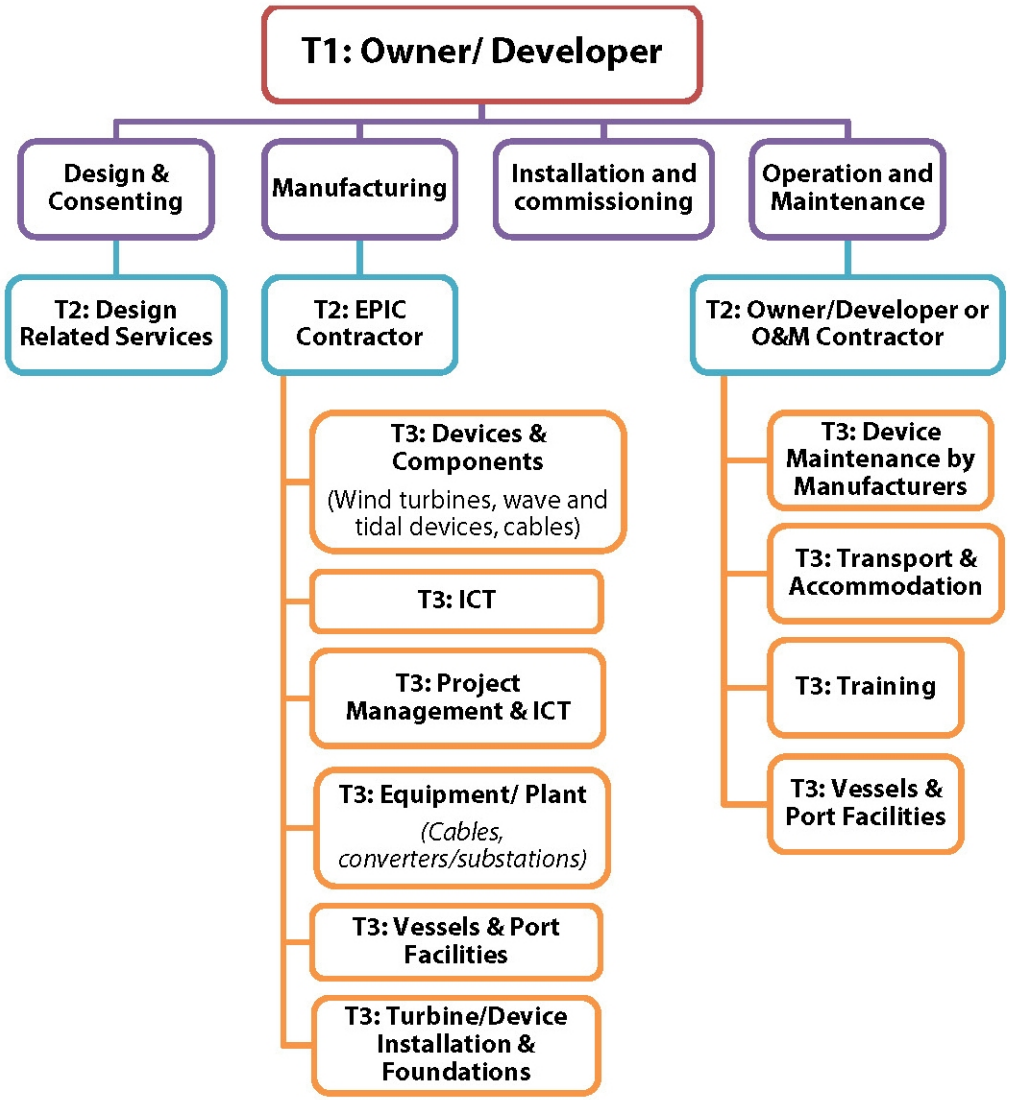
The Offshore WW&T Energy Supply Chain



- Established full capability marine industrial supply chain

Source: A Study of the Supply Chain Requirements and Irish Company Capability in the Offshore Wind, Wave and Tidal Energy Sector, Sustainable Energy Authority of Ireland, 2012

Why California?

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- Existing Offshore Oil Platform Service and Maintenance Fleet
- Operating from Port Hueneme and Port of Los Angeles / Long Beach

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CalWave Study

- Awarded $750,000 grant by U.S. Department of Energy to Study Siting and Cost of National Wave Energy Testing Center

- Cal Poly, San Luis Obispo Leads Team drawn from Universities, National Labs and Industry

- Will Examine Sites Offshore of Humboldt Bay and Vandenberg Air Force Base

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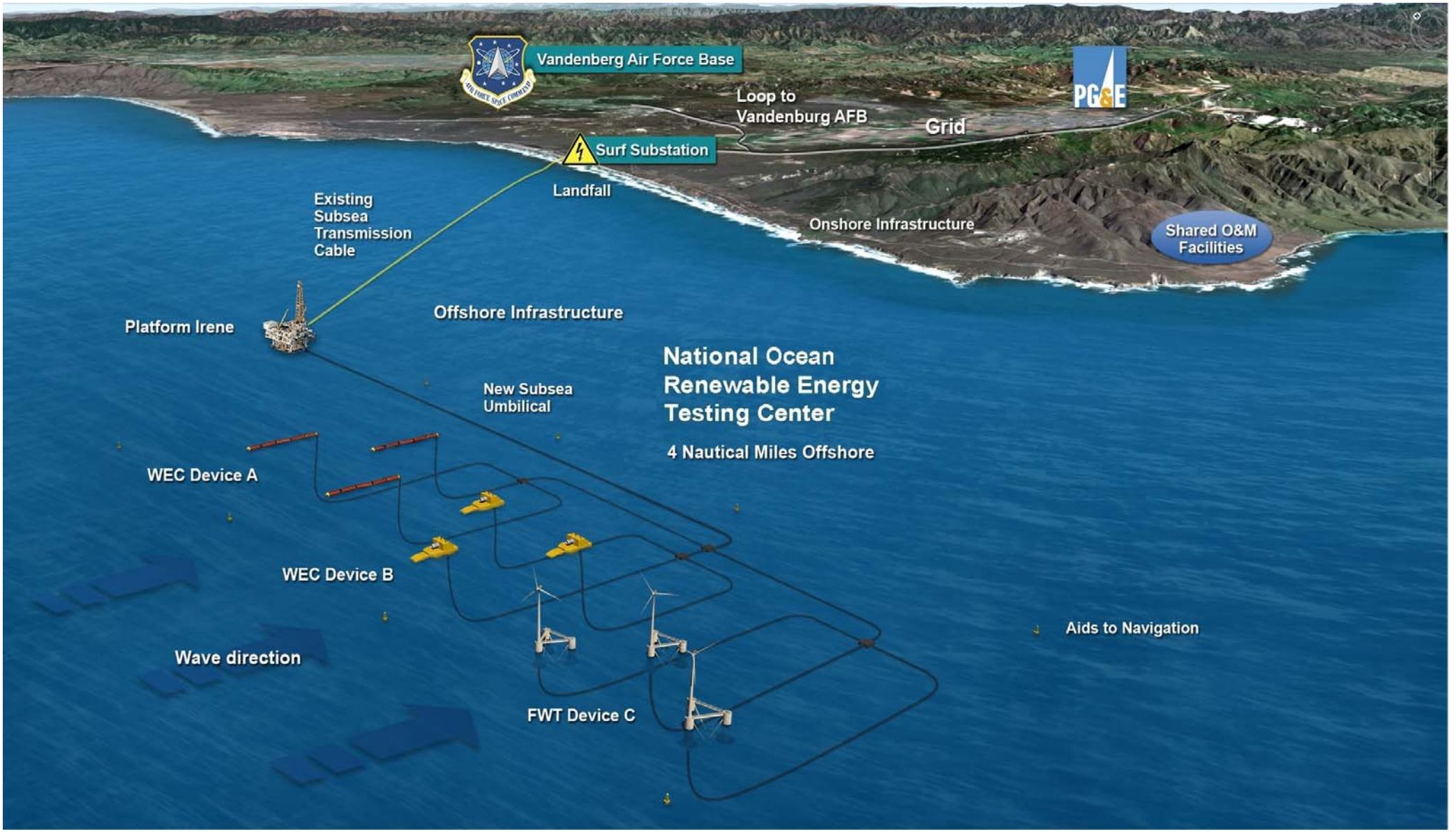

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