West Coast Transmission for Offshore Wind

Theodore J. Paradise, Partner
Energy, Infrastructure, and Resources
New York | Boston

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Transmission can triple the power capacity of the Northwest while offsetting billions - *PNNL*

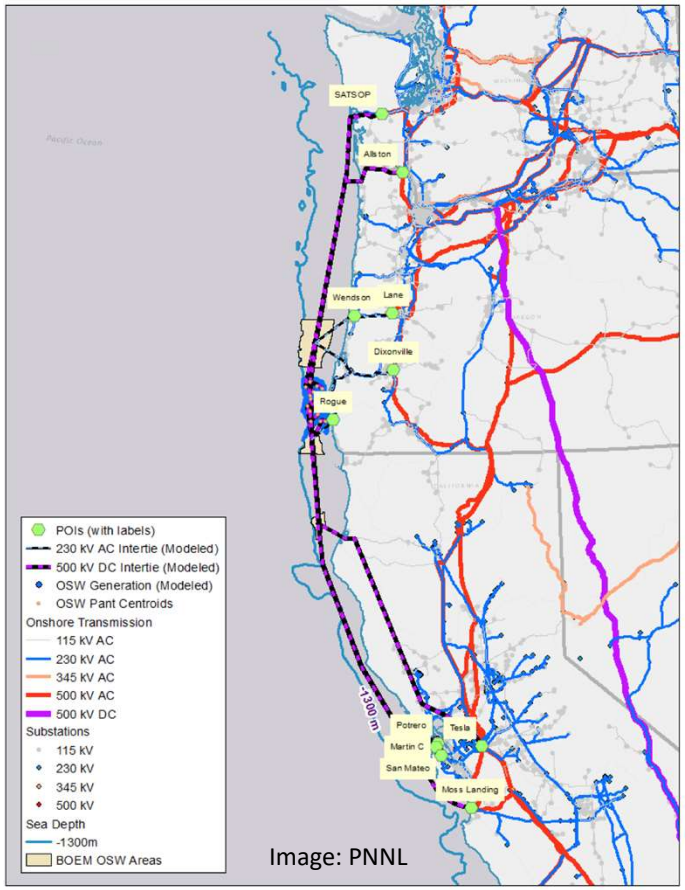

Image: PNNL

"The MTDC backbone is more cost-effective and increases annual value over the HVDC case in all cases. Improvements range from an increase in net benefit of $362M to $1.26B, and thus improvements of BCRs by 0.045 to 0.123. This is true despite the higher dependence of the backbone on floating OSW HVDC transmission expansion ($2.6B for the MTDC backbone vs. $2.3B for the HVDC radials, unscaled). The MTDC Backbone Topology also provides the greatest upside potential of all topologies in terms of annual net benefits ($6B/year)." *October 2023 PNNL Study* at p. 27. https://nationaloffshorewind.org/wp-content/uploads/SoOR_NorCA_OSW_Development_Strategy_Report__PNNL_NOWRDC_BOEM_092923-1.pdf

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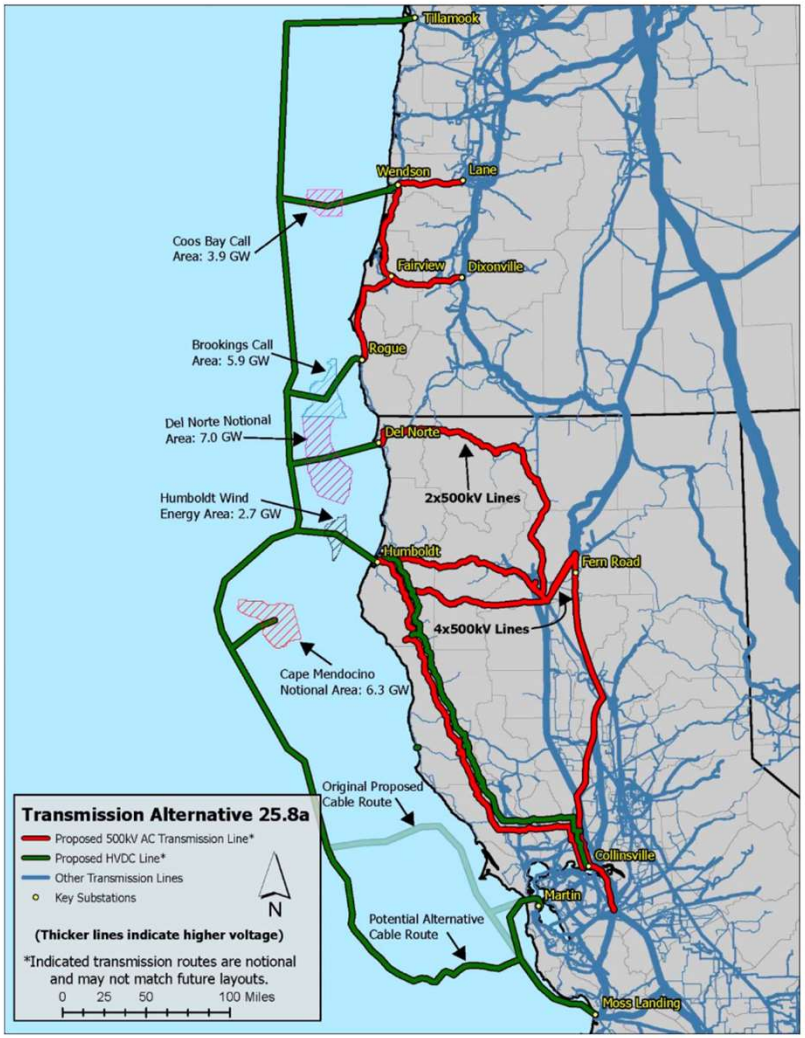

2023 Northern California and Southern Oregon Offshore Wind Transmission Study . Schatz Energy Research Center
https://efiling.energy.ca.gov/GetDocument.aspx?tn=252604

"Transmission and interconnection infrastructure is needed to transport power from
offshore wind projects and connect them to the larger transmission system to deliver
generation to load centers. …

In addition,
innovative approaches such as networked or backbone systems needed to efficiently
interconnect offshore wind projects and minimize environmental impact will be required." *January 2023 Draft California Energy Commission Report at p. 25.*

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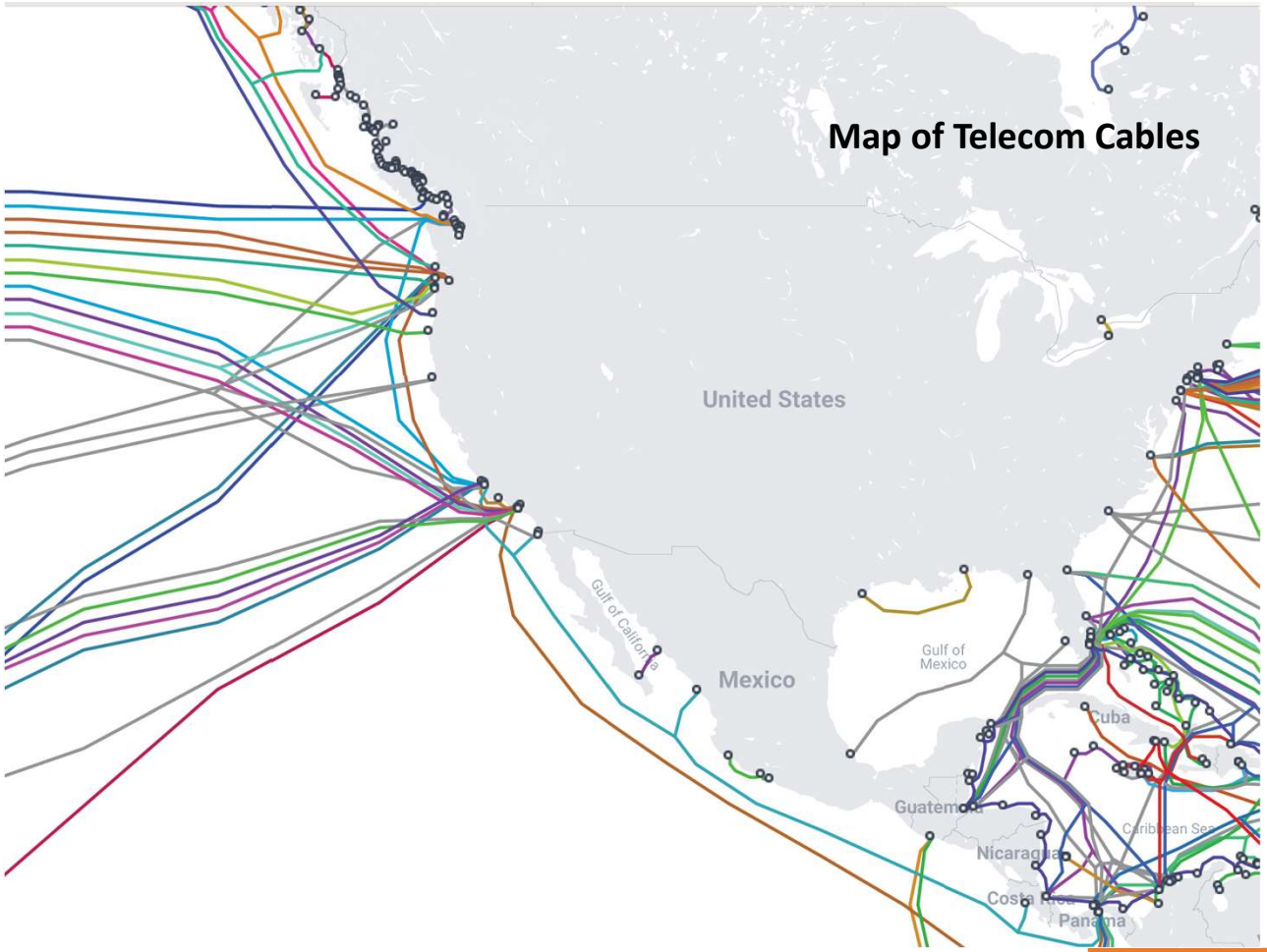

We build offshore networks for data, which allow us to communicate, stream, and move massive amount of information globally.

Cable installation is not a new phenomenon off the Pacific and Atlantic coasts of the United States.

The aim is to mitigate impacts of cable installation: reduce volume, cost, disturbance while maximizing energy and economic benefits.

Image via www.submarinecablemap.com

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Theodore J. Paradise
theodore.paradise@klgates.com
617-951-9121