

# West Coast Cable

SECURE

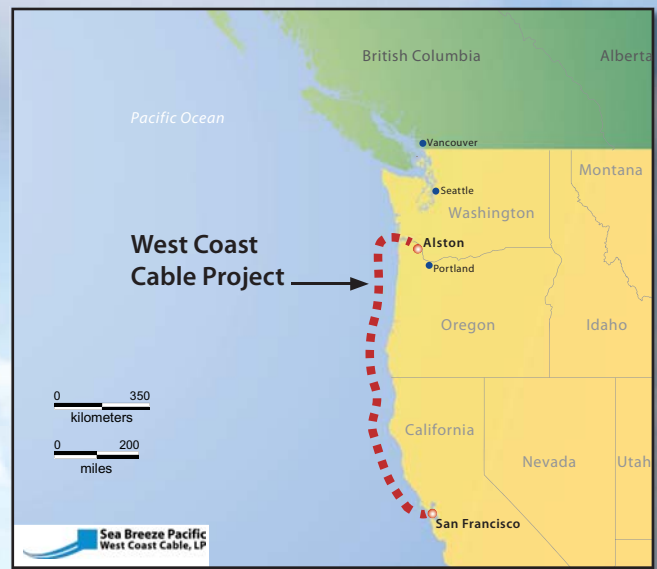
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## The West Coast Cable

The West Coast Cable Project is a 1,600 megawatt high-voltage direct current (HVDC) transmission cable proposed to stretch 650 miles (965 km), from a substation near Portland, Oregon, to the San Francisco Bay Area. Once constructed, the West Coast Cable would become the world's longest HVDC submarine transmission cable.

*A new, highly efficient transmission corridor along the West Coast will greatly facilitate the rapid growth of clean energy generation in a region abundant with renewable resources.*



## Project Drivers

In recent years, the State of California has taken a leadership role in reducing emissions by requiring its utilities to purchase 20% of their electricity from renewable resources by 2010.

Significant constraints on the existing transmission grid, however, make it difficult for utilities to access new renewable energy sources. Such constraints create a need for innovative and workable transmission solutions.

The West Coast Cable is being developed to address this need and to provide the California market with access to the hydroelectricity and largely untapped wind energy resources of the Pacific Northwest.

## Benefits

Once in operation, the West Coast Cable will:

- Improve market access to renewable resources in the Pacific Northwest and Western Canada
- Stabilize the western continental power grid by making load flows more predictable

## Project Status

The West Coast Cable is one of four transmission alternatives under consideration by California ISO's "Joint Stakeholder Long Term Planning Study".

The Project is also under review by the WECC Regional Planning Review Group, which was initiated by Pacific Gas and Electric Company (PG&E), a wholly-owned subsidiary of the largest utility in California.



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## Technology

HVDC "Classic" is a well proven, environmentally friendly transmission technology that provides up to 75% lower line losses over long distances than would occur with alternating current ("AC").

For over 50 years, HVDC "Classic" technology has been providing reliable and efficient electricity transmission around the world. HVDC "Classic" is manufactured by ABB Inc., one of the world's largest and most successful electrical manufacturing and engineering companies.

## HVDC Benefits:

- Rapid and accurate control of power level and direction
- Lower line losses
- Enhanced grid stability
- Blackout risk management and "black start" capability
- No fluctuating Electromagnetic Fields (EMF's)
- Cables directionally-drilled under sensitive intertidal zones to minimize impact



HVDC cables



HVDC cable laying ship

Photo courtesy of ABB

**Sea Breeze Pacific West Coast Cable, LP** is a partnership between:

**Sea Breeze Power Corp.** (TSX-V: SBX), a Vancouver-based renewable energy developer;

**Boundless Energy NW, Inc.**, a transmission and utility engineering company based in Connecticut;

A fund of **EIF Group**; a private equity fund manager.

**Sea Breeze Pacific West Coast Cable, LP** Lobby Box 91, Suite 1400 - 333 Seymour Street Vancouver, BC V6B 5A6 Canada  
Tel: 604-689-2991, Fax: 604-689-2990 Toll-free: 1-866-387-1240 Info@WCCable.com www.SBP-WCC.com



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