

# Southern Cross | Factsheet 2016

## A High Voltage Direct Current (HVDC) Transmission Line for Delivery of Texas Wind Energy in ERCOT to Customers in the Southeast and for Economic and Reliability Power Flows between the Transmission Systems

Texas is home to some of the highest capacity factor wind sites in the United States. The Electric Reliability Council of Texas (ERCOT) transmission system has been expanded to reduce congestion and to better integrate a substantial planned increase in wind generation. The Southeast, on the other hand, has almost no economic wind resources, with only limited availability of other higher cost sources of renewable power.

Pattern Energy Group LP (Pattern Development) is developing the Southern Cross Transmission Project to add an HVDC transmission tie between the Southeast and ERCOT transmission systems. Southern Cross will facilitate bi-directional power flows and development of additional Texas wind projects by creating access to new Southeast markets. The Project will allow Texas to expand its traditional role as an energy supplier, adding wind energy to its portfolio of major exports.



### Features and benefits of the Southern Cross Transmission Project:

- » Access to economical renewable wind energy in Texas for Southeast customers, as well as access to excess generation capacity in the Southeast for Texas customers
- » Increased income to Texas from sale of incremental wind energy
- » Creation of new jobs, investment and economic development in Texas, Louisiana, Mississippi and the greater southeastern United States
- » Reduction in electricity costs for Texas and Southeast customers
- » Improvement in reliability of both the ERCOT and Southeast transmission systems by providing the ability to access each other's diverse generation resources in times of need
- » Exclusion from regional transmission charges, with costs of the Project instead paid for only by companies that contract for capacity
- » Preservation of ERCOT jurisdictional independence from the FERC; the Project has received its final FERC 210 and 211 Orders

### Southern Cross Overview

Capacity	2,000 MW
Length	~400 miles
Beginning Point	ERCOT Transmission System
Ending Point	Southeast Transmission System
Scheduled Power Delivery Date	2021

## Pattern Development

Pattern Energy Group LP (Pattern Development) is a leader in developing renewable energy and transmission assets. With a global footprint spanning North America, South America, the Caribbean and Japan, Pattern Development's highly-experienced team has brought more than 4,000 MW of capacity to market.

In addition to a solar and wind energy pipeline of 5,900 MW Pattern Development is developing several transmission projects, including the Southern Cross Transmission Project. Our team successfully conceived, permitted, financed, developed and managed the construction of the Trans Bay Cable project in the San Francisco bay area, a 400 MW HVDC submarine cable that carries 40% of the northern San Francisco peninsula's

peak load. Our experience gives us a unique position in the FERC Order 1000 process as one of the few teams that have successfully completed the development of an independent transmission line in the United States.

We have earned our position as an industry leader by combining creativity, focus, and a scientific approach with our expertise and experience in resource analysis, site development, power marketing, finance, construction, operations and asset management. As a result, our team's history shows consistent, groundbreaking work.

Pattern Development is headquartered in San Francisco with offices located in Houston, San Diego, New York, Toronto, Santiago, Mexico City and Tokyo.

## Commitment to Community and Environment

Pattern Development places great importance on being active members of the communities where we develop projects. We maintain an ongoing dialogue with community members to ensure we move forward together in a direction that provides significant local benefits. We are dedicated to building relationships with our landowners, communities, business partners and customers. We also have a strong commitment to promoting environmental stewardship, which drives our devotion to develop quality renewable energy facilities.

These values are supported by a culture that fosters innovative and critical thinking, collaborative problem-solving, and a deep belief in living up to our promises. The Pattern Development team will continue using our in-depth industry experience, combined with innovation and science, to deliver the utmost value for our partners and the communities where we work, while exhibiting strong commitments to environmental stewardship and corporate responsibility.

