

# Southern Spirit Transmission

Southern Spirit Transmission is an approximately 320-mile ±525 kilovolt, ~3,000 megawatt high voltage direct current (HVDC) transmission line connecting Electric Reliability Council of Texas, Inc. (ERCOT) and Southeastern transmission grids.

The Project will enhance reliability, facilitate a valuable connection to diverse energy resources, enhance grid resilience during extreme weather and usage events, and provide electricity consumers with access to low-cost energy.

Southern Spirit will also have the capacity to transport power in either direction along the line allowing sharing between the grids, particularly during periods of high energy demand.

Privately funded by Pattern Energy, Southern Spirit represents a more than \$2.6 billion dollar investment and will serve as a long-term asset to the region.



Southern Spirit Transmission will connect Texas and Southeastern transmission grids

## Benefits

- Provides reliable power for ERCOT and Southeastern grids, addressing growing demand by increasing access to existing supply in both regions
- Offers support during extreme weather events by allowing power to be shared between grids
- Increases electric diversification to help drive down rates for electricity customers, especially in time of high energy demand
- Enhances grid reliability through the distinctive advantages of VSC HVDC technology
- Preserves ERCOT's independence via Federal approval granted in May 2014
- \$2.6 billion in private new infrastructure investment
- Thousands of jobs—the project will prioritize local workers
- \$3.8 million in local economic impact over the project's construction phase for first 40 years of operation
- \$600 million in property tax revenue



## Project Details

Southern Spirit will begin in Louisiana at the Texas border and extend into Mississippi. It will connect to Texas by way of the Rusk to Panola Transmission Project in partnership with Garland Power & Light.

Southern Spirit is designed to use state-of-the-art  $\pm 525$  kV high voltage direct current (HVDC) technology—resulting in higher overall efficiency, a smaller footprint, and less wires than a comparable alternating current (AC) system to transmit the same amount of power.

## Projected Schedule



## About Pattern Energy

Pattern Energy is a leading developer, operator and owner of renewable energy infrastructure projects and facilities across North America. Our mission is to transition the world to renewable energy through the sustainable development and responsible operation of facilities with respect for the environment, communities, and cultures where we have a presence.

Our approach begins and ends with establishing trust, accountability, and transparency. Our company values of creative spirit, pride of ownership, follow-through, and a team-first attitude drive us to pursue our mission every day. Our culture supports our values by fostering innovative and critical thinking and a deep belief in living up to our promises.

Headquartered in San Francisco, Pattern has a portfolio of power facilities and transmission assets producing and transporting nearly 6,000 MW of power across North America, serving various customers that provide low-cost clean energy to millions of consumers.

**The project will consist of electrical transmission facilities in Louisiana and Mississippi, including:**

- Approximately 320 miles of  $\pm 525$  kV HVDC transmission line across Louisiana and Mississippi
- HVDC converter station located in western DeSoto Parrish, LA
- HVDC converter station located in Choctaw County, MS
- 500 kV alternating current transmission switching station in MS

