

# Transmission Development for Renewables

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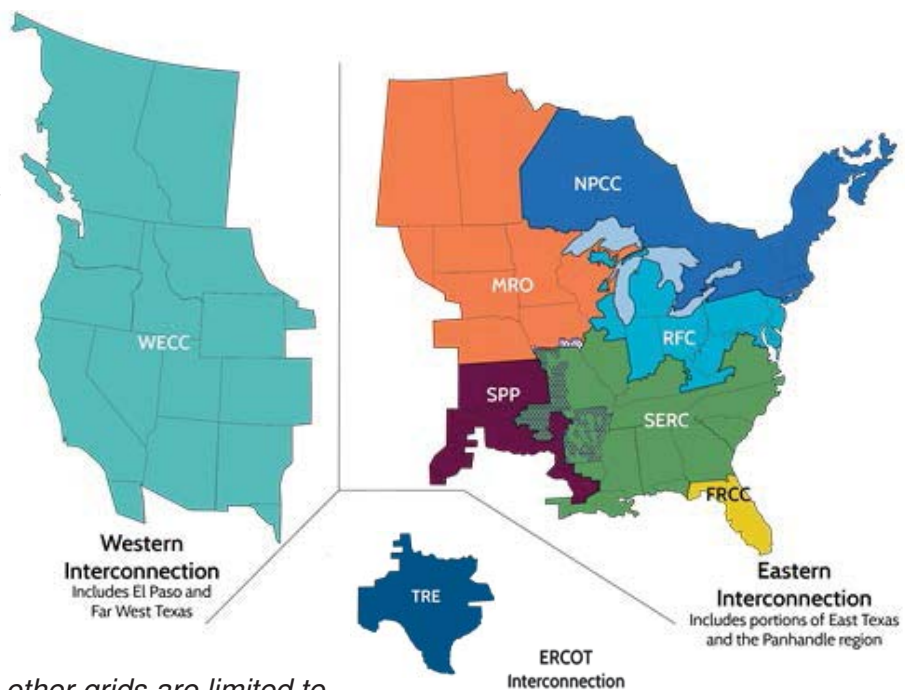


## The ERCOT Region

**The interconnected electrical system serving most of Texas**

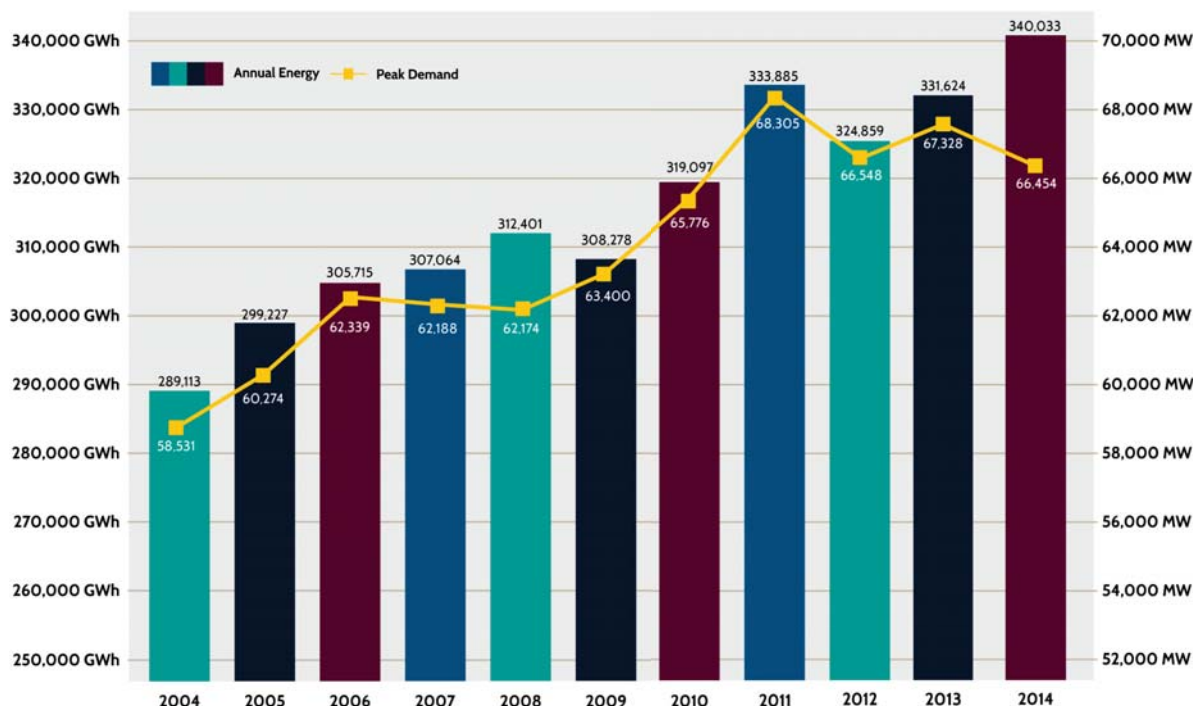
90% of Texas electric load; 75% of Texas land

- 69,783 MW peak demand (set August 10, 2015)
- More than 43,000 miles of transmission lines
- 550+ generation units

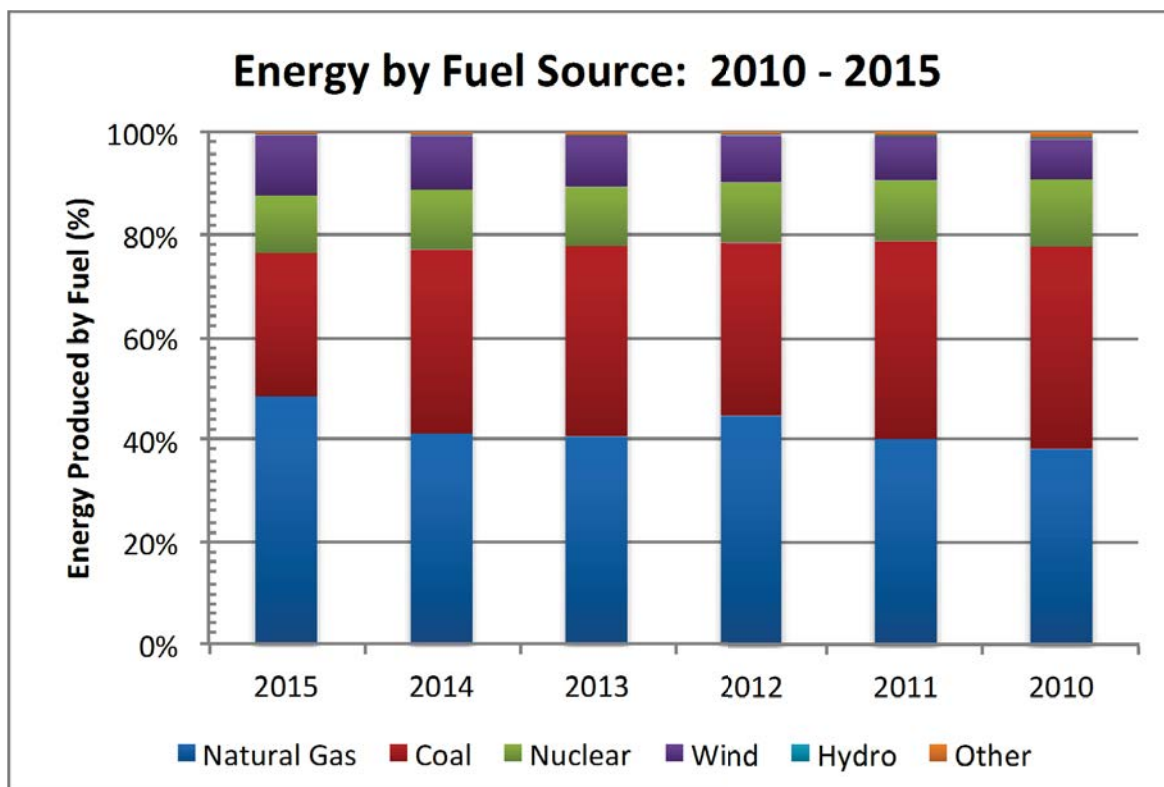


*ERCOT connections to other grids are limited to ~1100 MW of direct-current (DC) ties, which allow control over flow of electricity.*

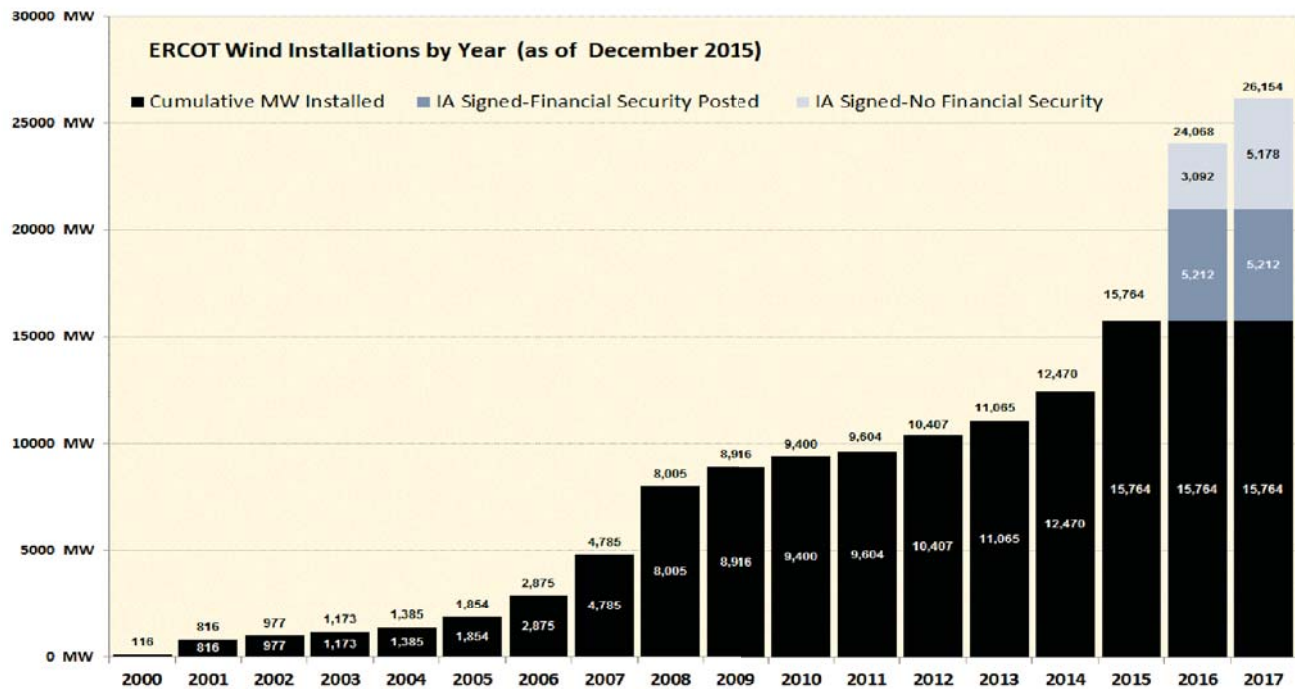
# Annual Energy and Peak Demand (2004-2014)



## The Changing Fuel Mix in ERCOT



# Wind Generation Development in ERCOT

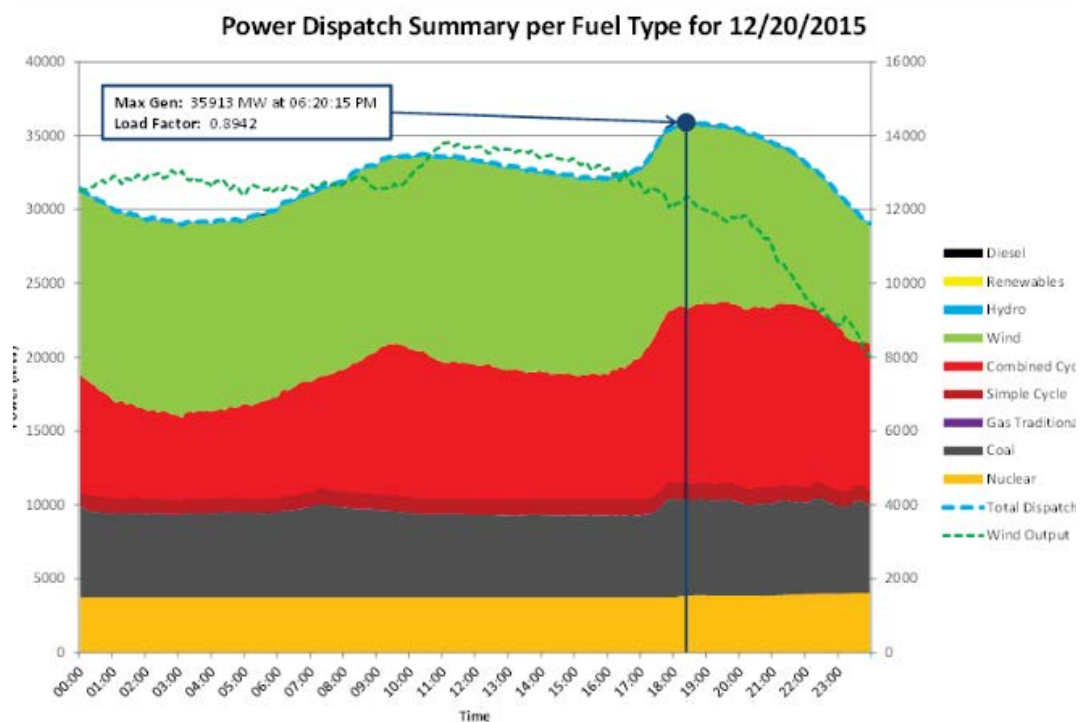


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5

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## Generation by Fuel Source: December 20, 2015



- Wind supplied 38.4% of daily energy

- Maximum wind penetration ~44%



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6

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[Financing and Project Planning in the Renewable Energy Market](#)

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