

## Grid at a glance

- Area served: 85% of Texas load, 75% of state
- Customers served: 22.7 million
- Competitive-choice customers: 74% of load  
– 6.5 million electric-service ID's
- High-voltage transmission: 40,530 circuit miles  
– 9,249 miles of 345 kV and 19,565 miles of 138 kV
- Generating units: ~550
- Installed capacity: 82,672 megawatts (MW)
- Available capacity: 73,656 MW,  
– Includes 8.7 percent of wind capacity
- Current reserve margin: 16%  
– Minimum required for reliability – 13.75%
- Record peak demand: 65,776 MW (Aug. 23, 2010)
- Energy produced: 319 billion kilowatt-hours (2010)
- Market size: \$32 billion, based on 319 billion kWh market volume and average \$0.10/kWh rate
- Market participants: ~1,150 active entities that generate, move, buy, sell or use wholesale electricity

## What do we do?

The Texas Legislature restructured the Texas electric market in 1999 by unbundling the investor-owned utilities and creating retail customer choice in those areas, and assigned ERCOT four primary responsibilities:

- System reliability – planning and operations
- Open access to transmission
- Retail switching process for customer choice  
– The only independent system operator with responsibilities for retail transactions
- Wholesale market settlement for electricity production and delivery.

## How are we doing?

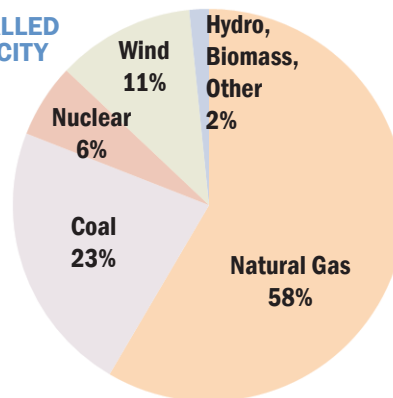
### Transmission Investment and Development

- \$6.57 billion in transmission added since 1999
- 8,500 circuit miles of transmission improvements since 1999
- 8,000 miles of transmission under study
- \$9 billion under development in five-year plan  
– Including \$5 billion to support 18,000 MW of wind

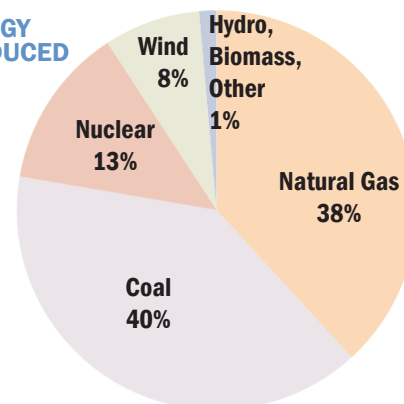
### Generation Development

- 45,000 MW new generation added since 1999  
– 136 older units decommissioned
- 10,000 MW generation committed for the future (with transmission contract and air permit)
- 65,000 MW of new generation requests under review, including 38,000 MW wind; 5,900 MW nuclear; 12,700 MW natural gas; 5,000 MW coal; and 3,300 MW solar, biomass and other (Dec. 2010)

INSTALLED CAPACITY 2010



ENERGY PRODUCED 2010



### Wind Integration

- Wind capacity: 9,528 MW  
– Most in the nation and fifth highest in the world
- Wind generation record: 7,227 MW  
– 26 percent of load at the time (Dec. 11, 2010)

### Retail Service Switches to Competitive Retailers

- 55% of residential load (Dec. 2010)
- 81% of small commercial load (Dec. 2010)

### Advanced Meters and Demand Response

- More than 400 million advanced-metering usage data transactions processed (Dec. 2010)
- Performing financial settlement for >2 million advanced meters – no other ISO is using advanced-metering data in wholesale financial settlements
- Demand response: 1,062 MW in load resource program (equal to three major power plants)

### What's new?

A nodal market redesign was launched Dec. 1, 2010, implementing locational marginal pricing at more than 8,000 nodes – 500+ settlement price points – and a day-ahead energy and ancillary services co-optimized market, and day-ahead and hourly reliability unit commitment.

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### Board, Stakeholder Process

The ERCOT Board of Directors has general overall responsibility for managing the affairs of ERCOT, including approval of the budget and capital spending priorities, approval of revisions to ERCOT protocols and guides, and endorsement of major new transmission recommendations.

ERCOT’s 16-member “hybrid” board includes five independent (or unaffiliated) members; three consumer segment representatives (industrial, commercial and residential); the ERCOT CEO; the Public Utility Commission (PUC) chairman (non-voting), and six representatives from each of the industry segments – investor-owned utilities (or transmission owners), municipal-owned utilities, cooperatives, generators, power marketers and retail electric providers.

Under the Board’s oversight, ERCOT’s stakeholder process is responsible for developing policies, procedures, and guidelines for power grid coordination, reliability, and market operations.

Six standing committees and subcommittees supported by numerous working groups and task forces function within the stakeholder process.

### PUC, Legislative Oversight

ERCOT is unique because its electricity grid is not synchronously connected outside of the state. Because of its separateness, ERCOT is primarily regulated by the Public Utility Commission of Texas (PUC) and the Texas Legislature, not federal authorities. The PUC approves the ERCOT system administration fee and has general oversight authority including the ability to order audits.

For most purposes, ERCOT, like the PUC, is accountable to the Texas Legislature and its jurisdictional committees. For federal reliability standards, ERCOT is accountable to the Texas Reliability Entity, the North American Electric Reliability Corporation, and the Federal Energy Regulatory Commission.

*The Electric Reliability Council of Texas (ERCOT) manages the flow of electric power to approximately 22 million Texas customers – representing 85 percent of the state’s electric load and 75 percent of the Texas land area. As the Independent System Operator for the region, ERCOT schedules power on an electric grid that connects 40,500 miles of transmission lines and more than 550 generation units. ERCOT also manages financial settlement for the competitive wholesale bulk-power market and administers customer switching for 6.5 million premises in competitive choice areas. ERCOT is a membership-based 501(c)(4) nonprofit corporation, governed by a board of directors and subject to oversight by the Public Utility Commission of Texas and the Texas Legislature.*