

Emerging Issues for the Texas PUC: CREZ Lines and Renewables Beyond Wind

Commissioner Kenneth W. Anderson, Jr.

Public Utility Commission of Texas

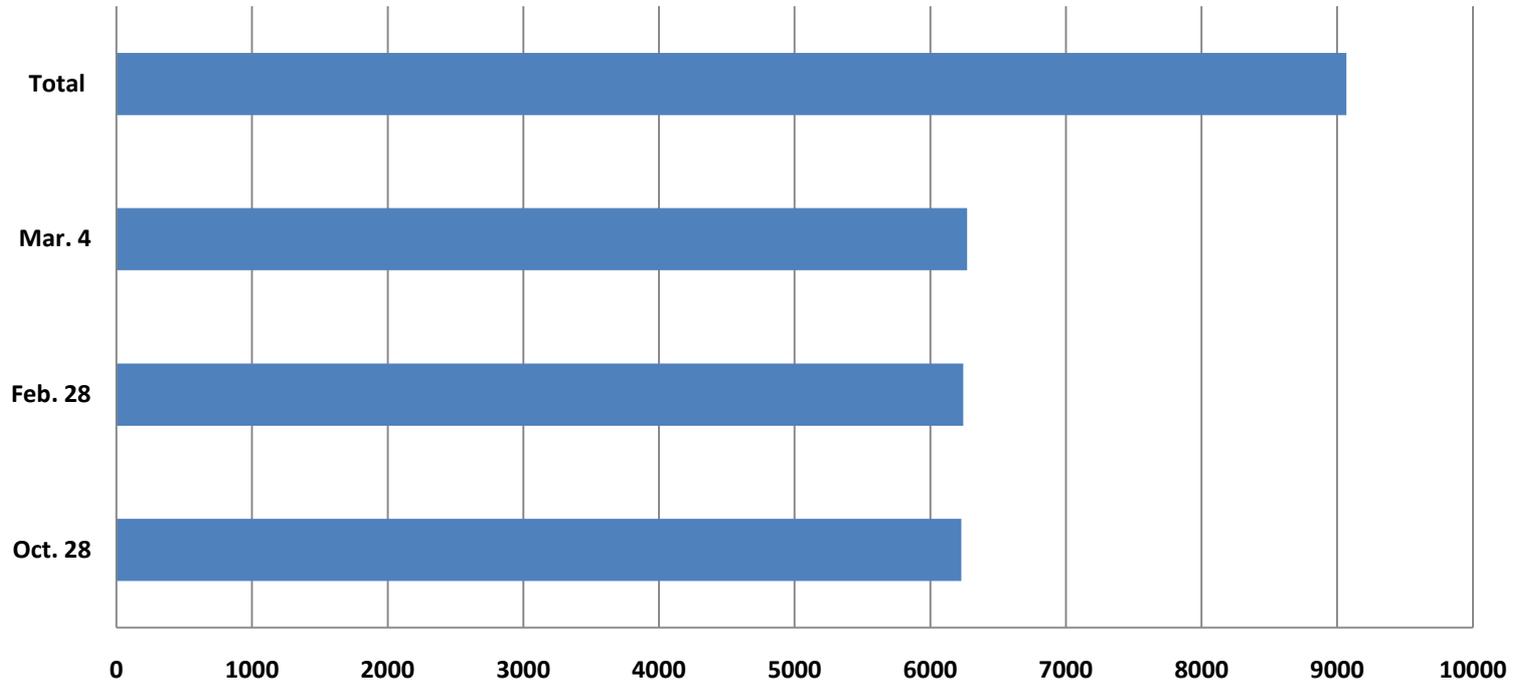
March 24, 2010

Outline

- Wind generation record peaks;
- Operational challenges associated with a high penetration of wind;
- The CREZ proceedings;
- The current rulemaking for 500 MW of non-wind renewable; and
- Interest expressed in non-wind renewable generation.

Maximum Wind Production

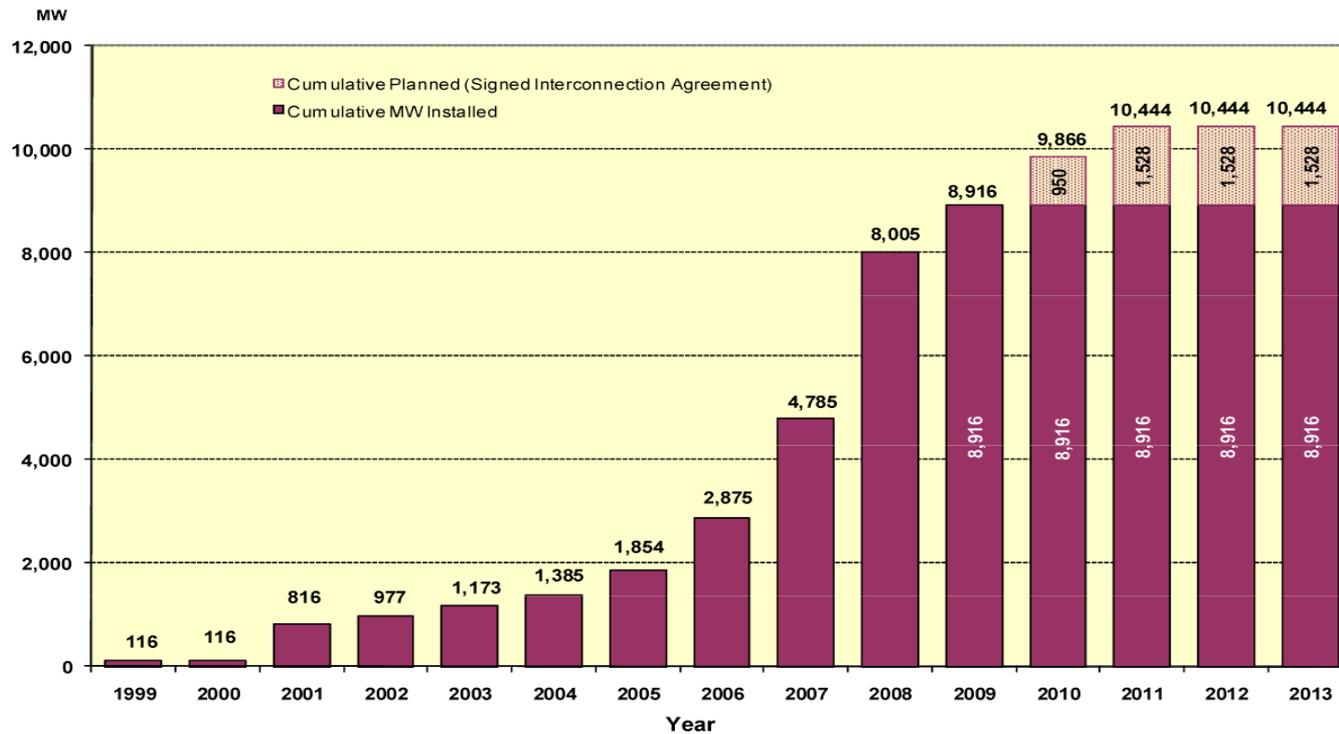
Peak Wind Generation



	Oct. 28	Feb. 28	Mar. 4	Total
■ Peak Wind Generation	6228	6242	6272	9068

Installed Wind Generation

Wind Generation



as of January 31, 2010



16 February 2010

18

ERCOT Public

Wind Under Study

Project Description	Wind-MW
Projects with Interconnection Agreement	6,889
Projects Under Full Interconnection Study	31,301
Confidential Projects	7,476
Total	45,666

Project Completion (July 2002 – February 2010)

Project Status	Total Wind Projects	Wind Percentages	Total Non-Wind Projects	Non-Wind Percentages
Projects requesting screening study	199		127	
Projects requesting full interconnection study	108	54.3%	69	54.3%
Projects completing full interconnection study	59	29.6%	52	40.9%
Projects with signed interconnection agreements	56	28.1%	43	33.9%
Projects completed	49	24.6%	34	26.8%
Projects with signed interconnection agreements that are completed		87.5%		79.1%
Projects requesting full interconnection study that are completed		45.4%		49.3%
Projects that complete full interconnection study that are completed		83.1%		65.4%

Ancillary Services Roadmap

Ancillary
Services needed
by 2014



Type of
services
needed



Additional
services to
be added



Impact to
market structure
and nodal



Total ancillary service costs
and allocation to the market
(including wind)

Non-Wind Renewables

Fuel	Existing-MW	Signed Interconnection Agreements	In-Study	Total
Biomass	54	145	108	307
Solar	0	0	1178	1178

Contact Information

Kenneth W. Anderson, Jr.

512-936-7005

kenneth.anderson@puc.state.tx.us