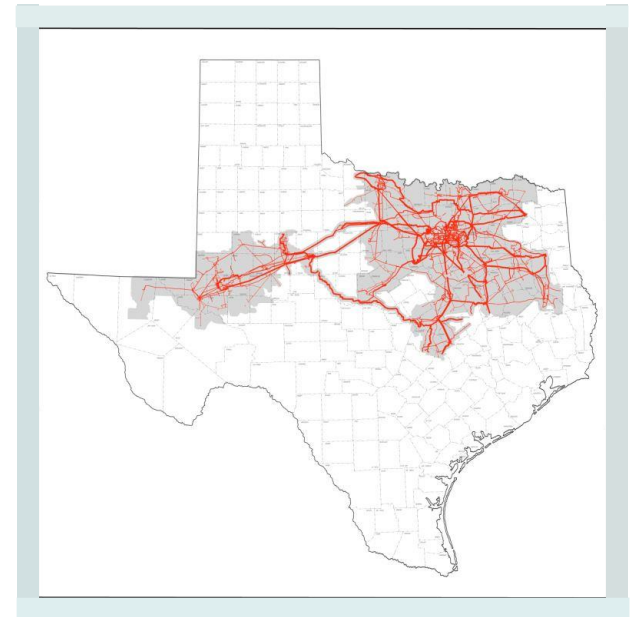
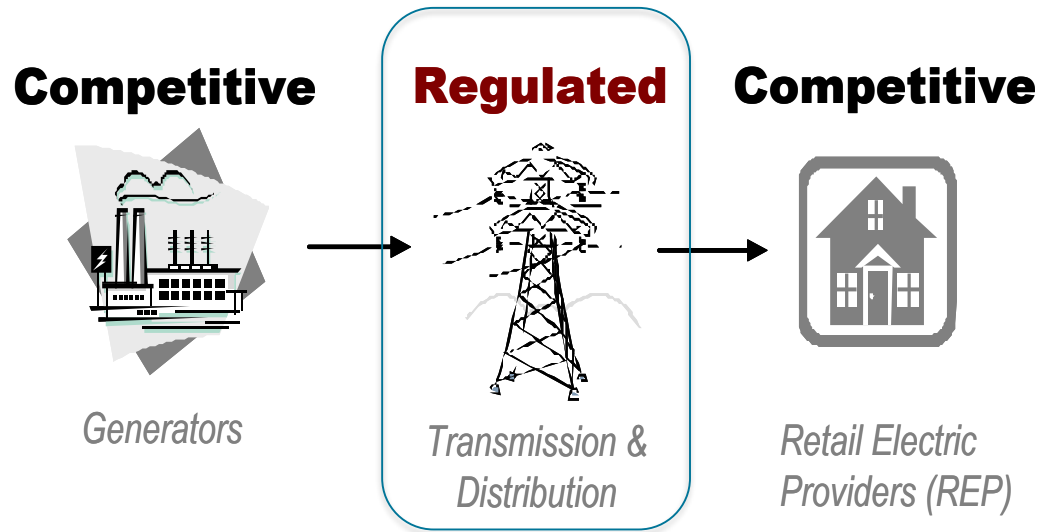


ONCOR's ROLE IN THE MARKET



- Competitive ERCOT wholesale and retail electric energy market since 2002 for investor-owned players
- Regulated delivery utilities – do not generate, own, or sell electricity

Advanced technology for grid management

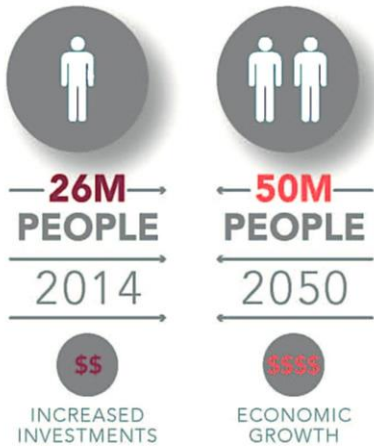
- Meter measurement
- Operational controls



Reliable delivery through the application of technology



TEXAS' CHALLENGE: POWERING OUR FUTURE GROWTH



- 1 AUSTIN
- 4 DFW
- 10 HOUSTON
- 20 SAN ANTONIO
- 2 MIDLAND
- 3 ODESSA
- 6 LONGVIEW

FORBES FASTEST GROWING CITIES (FEB. 2014); FORBES FASTEST GROWING SMALL CITIES (SEPT. 2014)

The Value of Distributed Electricity Storage in Texas

Proposed Policy for Enabling Grid-Integrated Storage Investments

PREPARED FOR



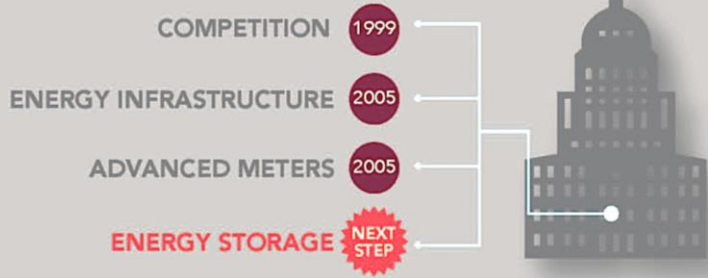
PREPARED BY

Judy Chang
 Johannes Pfeilenberger
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 Matthew Davis

Ioanna Karkatsouli
 Lauren Regan
 James Mashal

January 2015

TEXAS LEADS:



ENERGY STORAGE WILL BRING

- RELIABILITY
- AFFORDABILITY
- FLEXIBILITY
- EFFICIENCY
- INDEPENDENCE
- SECURITY

THE **Brattle** GROUP

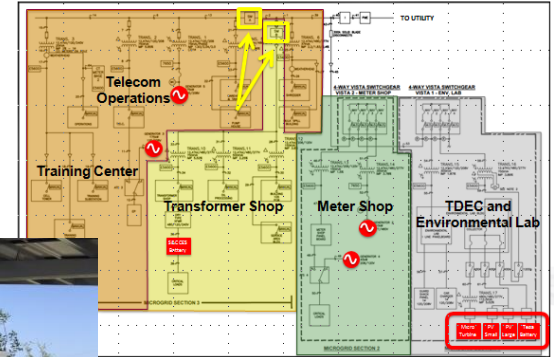
BULK GRID	DISTRIBUTION	CUSTOMER
Wind & solar smoothing and dispatch Time-shift wind & solar energy to meet the needs of electric customers Demand and time-of-use energy management Grid services – • Supply regulation • Frequency regulation • Responsive reserves for grid contingency • Fast response	Support the local grid during upstream outages Defer traditional upgrades needed to support growing loads Integrate distributed renewable sources (DERs) to the local grid for stability & voltage control Provide greater flexibility to market participants	Increased reliability Flexibility to use rooftop solar and charge electric vehicles Lower customer bills

ONCOR STORAGE PROJECTS

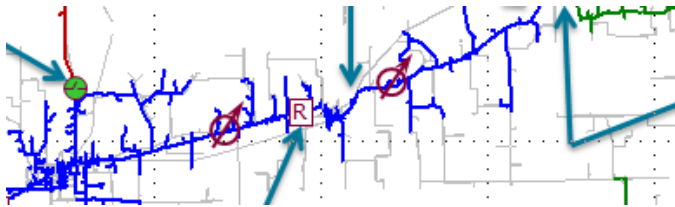


Neighborhood Storage Reliability Initiative

SOSF Microgrid Operations



Rural Feeder Reliability Study



Microgrid at an Oncor Operations Site

