

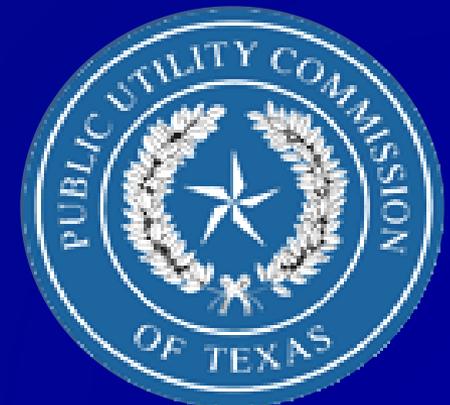


Overview of Smart Meters in ERCOT

Christine Wright

Public Utility Commission of Texas

Tuesday, April 17, 2012

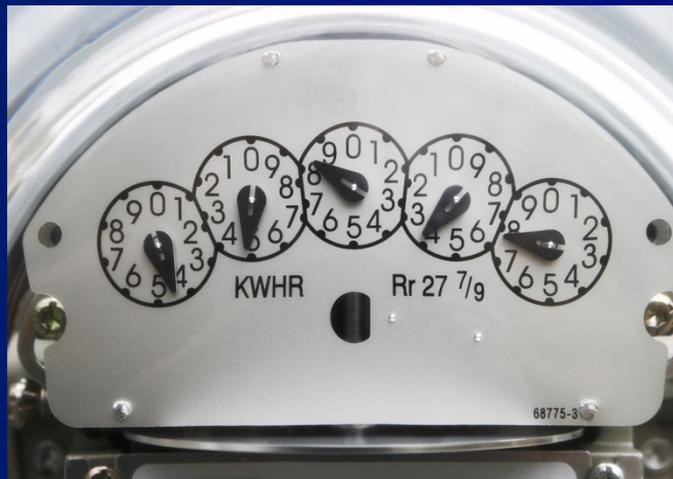


The image features a vertical strip of the Texas state flag on the left side, showing the blue field with a white star and the red and white stripes. The rest of the image has a solid dark blue background with white text.

“... we must continue our commitment to conservation, energy efficiency and customer demand response. We are going to need every resource to meet the growing electricity needs of Texas.”

- Chairman Barry Smitherman

Utilities Enter the Digital Age



A vertical strip of the American flag is visible on the left side of the slide, showing the blue field with a white star and the red and white stripes.

Digital Society

“running today’s digital society through yesterday’s grid is like running the internet through an old telephone switchboard”.

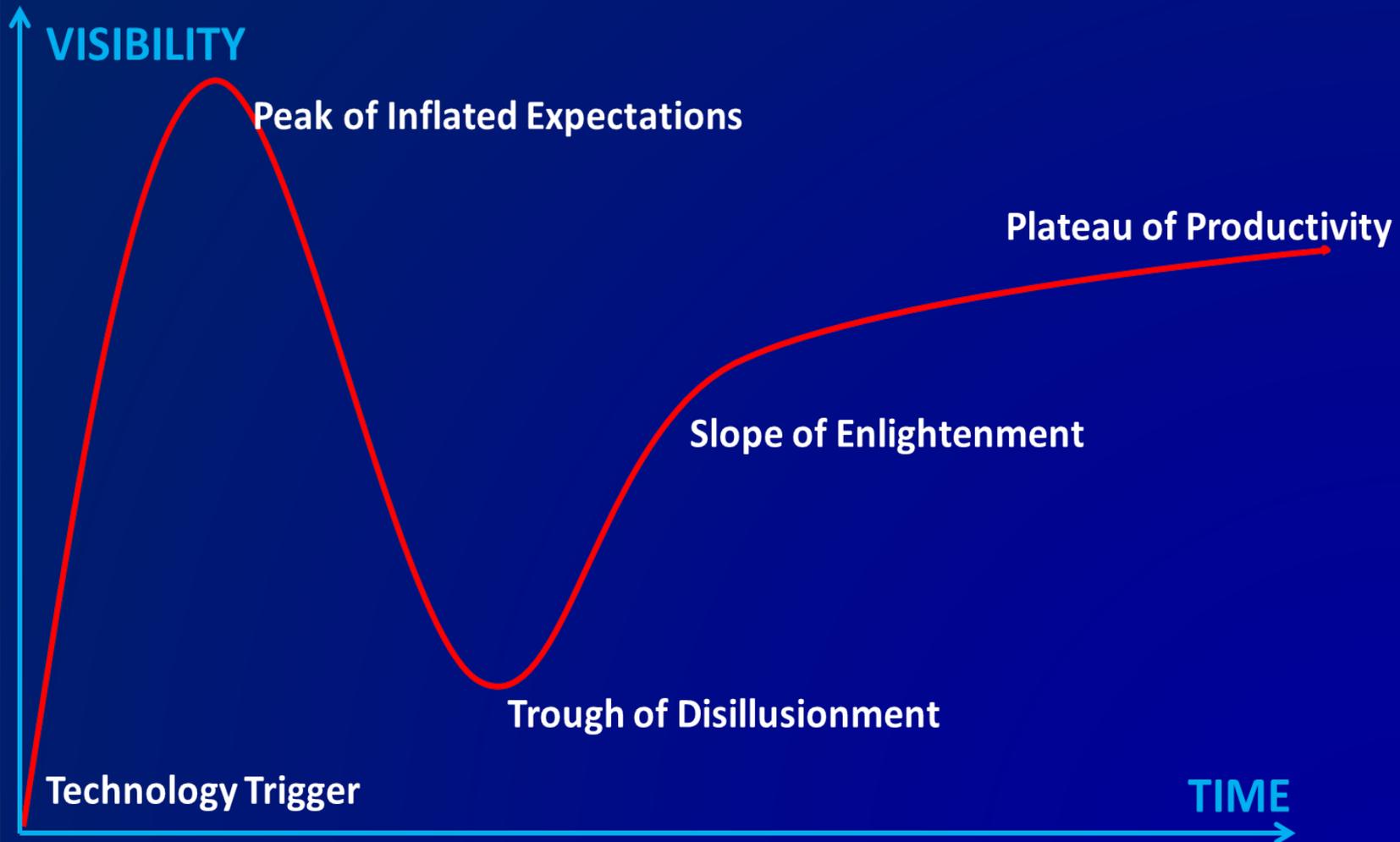
- *Reid Detchon, Energy Future Coalition*



What are the Benefits?

- **Faster completion of service orders:**
 - Move In
 - Move Out
 - Meter Re-Read
 - Switching from REP to REP
 - Disconnect and Reconnection
- **On Demand Reads**
- **Customer Service**
- **Reduced Usage** during peak periods and scarcity conditions
- **Utility operational savings** (meter reading, outage detection)
- **Demand Response**

Gartner Hype Cycle



The image shows the Texas state flag, featuring a white five-pointed star on a blue field, with white and red horizontal stripes below. The flag is partially visible on the left side of the slide.

Statistics

- Texas will have approximately 6 million meters installed by 2013
- Over \$2 Billion dollars in investment has been approved
- SmartMeterTexas.com – allows customers to access their 15-minute data
- Strong emphasis on the Home Area Network (HAN) for customers and the market

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In Home Display Testimonials:

- “I am amazed at how well the device informs me the usage breakdown; it allowed us to manage when we were at our highest usage in a day and what we could do to be more cautious in what was being used and if it was necessary. It’s a great way to manage my daily and monthly usage.”
- “I love the box. I look at it all day, as I am retired. It has made me very conscious of what is on in my house. Thanks for doing this.”

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Testimonials *cont.*

- “Set up was painless. I read the instructions and then handed everything to my wife to set up. She does not typically use electronics (other than the TV) and has no mechanical knowledge so I figured it would be more of a fair test to ask her. She breezed through the instruction booklet and set it up on the first try. “



Thank You



More Information

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Implementation Project Page:

<http://www.puc.state.tx.us/industry/projects/electric/34610/34610.aspx>

SmartMeterTexas:

www.smartmetertexas.com

Power to Choose

www.powertochoose.org



Appendices



Texas Requirements

- Commission Rule, Subst. R. 25.130
 - Set requirements for functionality, deployment plans, data access, open standards and included cyber security requirements
- Deployment Plans - deployment is voluntary
- Data Access - Customer owns the data
- Customer privacy - addressed in commission rules
- Cyber Security Requirements -
 - Annual security audit of utility system;
 - Commission ordered additional security audits of Smart Meter Texas
- Stakeholder working group necessary for implementation

Comparison of Deployments

	Center Point	Oncor	AEP TCC**	AEP TNC***	TNMP
Approximate Meters Deployed (Total)	2 Million	3 Million	809,000	193,000	200,000
Completion of Deployment	Mid-2012*	End of 2012	End of 2013	End of 2013	End of 2016
Total Estimated Savings	\$120.6 Million	\$176.0 Million	\$89.2 Million	\$32.6 Million	\$19.3 Million
Estimated Customer Education Expense	\$5.6 Million	\$15.1 Million	\$4.0 Million	\$1.0 Million	\$1.95 Million
Residential Surcharge Amount (per month)	\$3.05	\$2.19	\$2.26	\$2.35	\$3.40

*Center Point requested to accelerate its deployment in its AMS Reconciliation as part of its rate case in *Docket No. 38339, Application of Center Point Energy Houston Electric, LLC for Authority to Change Rates*.

** AEP TCC residential surcharge is \$3.15 during the first two years, \$2.89 during the next two years, and \$2.26 for the remainder of the surcharge period.

*** AEP TNC Residential surcharge is \$3.15 for the first two years, \$2.27 during the next two years, and \$2.35 for the remainder of the surcharge period.

SMART METER TEXAS™



SMART METER TEXAS™

Meter Interval Usage

HAN Messages

Meter Attributes

Customer Premise

Meter Provisioning



Demand Response

Settlement

Pricing

Text Messaging

Presentment

- Smart Meter Data provided in a 15-minute, day after basis
- 500 + Million data points per day
- Service for Customers, REPs, 3rd Parties
- Standard tool for all Utilities in ERCOT Joining of In Home Devices for Customers, REPs, and 3rd Parties