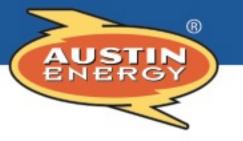
#### Customer Driven. Community Focused.





# **ERCOT**

(Electric Reliability Council of Texas)

# Wholesale Market Update

AEUOC Meeting November 2017





### **Update Overview**

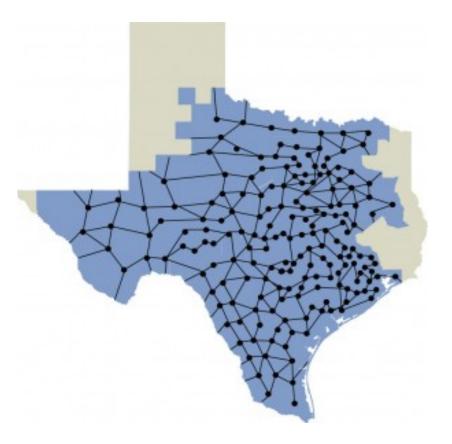
Electric Markets

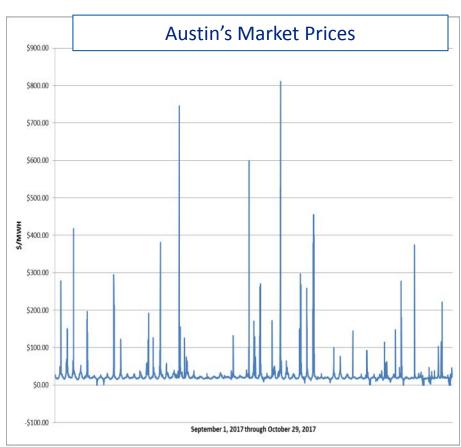
Recent Developments

 How does these developments affect the market and Austin Energy



# Electric Market Managed

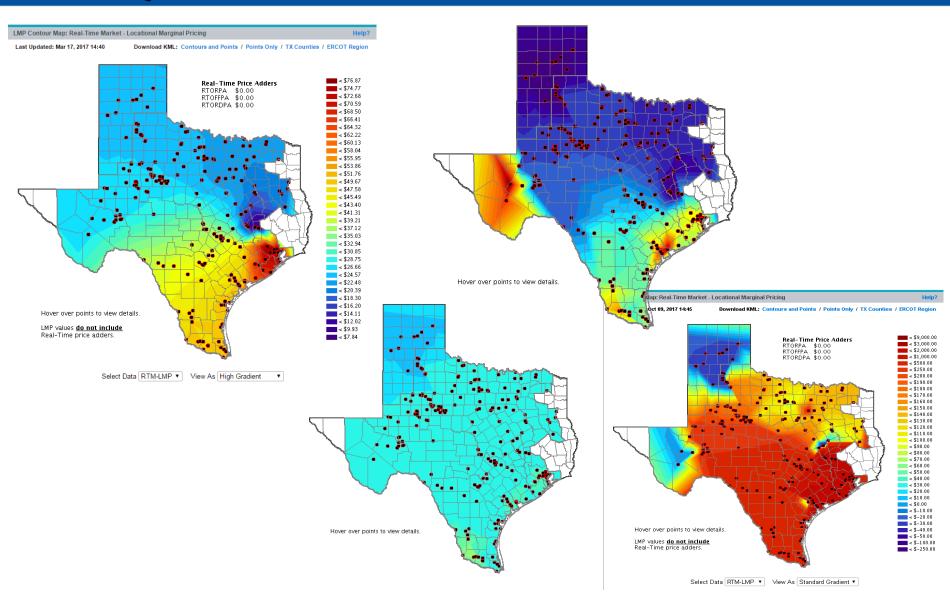




Average price = \$26 Megawatt Hour



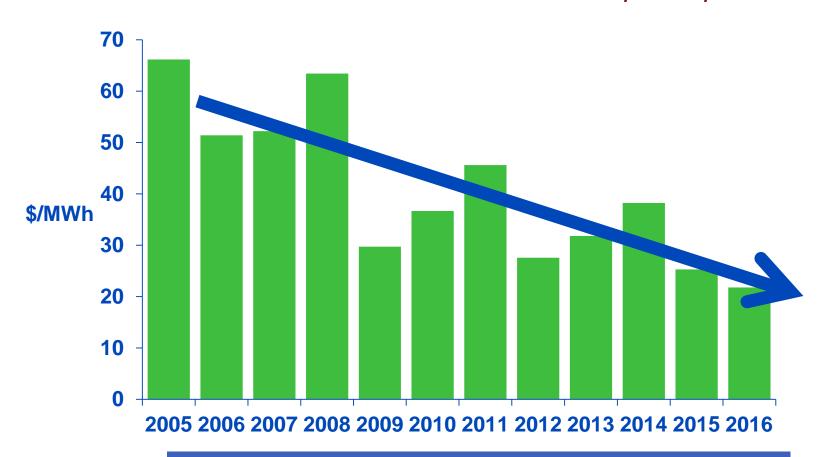
### Real-time Prices Fluctuate All Day Everyday





## **ERCOT Average Power Prices**

Lower cost resources have driven down wholesale power prices



**Declining wholesale prices in ERCOT market** 

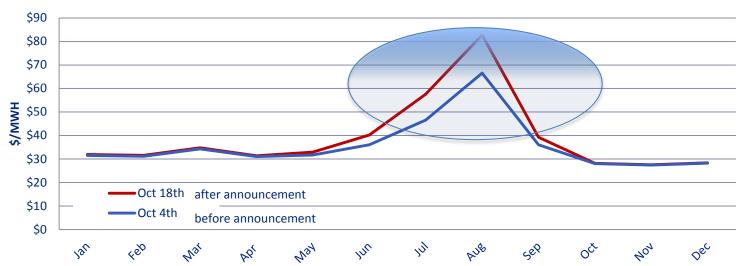
1) Source: ERCOT



#### Retirements and Additions

- Generation Retirements: (announced October 2017) (5% of total ERCOT capacity)
  - 418 MWs of natural gas fired generation capacity
  - 4,273 MWs of coal fired generation capacity
- Generation Additions: (likely before August 2018)
  - 1,227 MWs of natural gas fired generation capacity
  - 639 MWs of solar generation capacity
  - 1,715 MWs of wind generation capacity

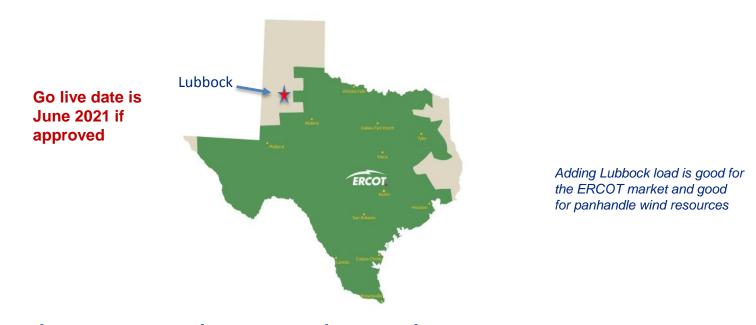
#### **Load Zone South Forward Prices (2018)**





### Market Rule Changes in Discussion

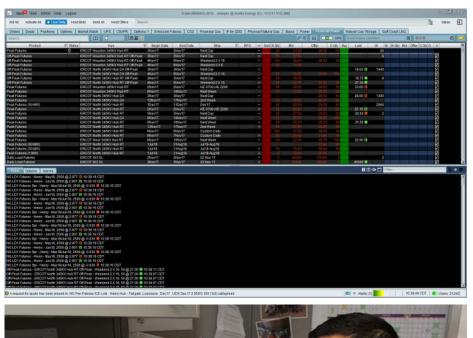
- Major rule changes evaluated currently
  - Public Utility Commission has requested input from market participants
  - Any rule changes will take several years to be in effect
  - Not determined if costs of rule changes outweigh benefits to our customers
  - Although City of Lubbock joining ERCOT market determined this winter



 Rule changes and generation retirements create uncertainty about the future



# Austin Energy Market Team





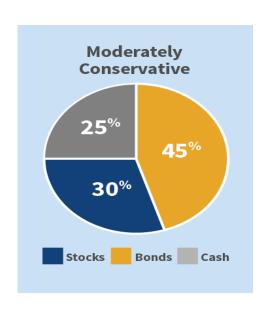






### Portfolios Managed

- Managing risk on a daily basis differs from the risk managed through the resource plan
- Much like protecting the savings for children's college or your retirement, the city's portfolio is diversified in several ways to help protect it from market risks
- In order to increase certainty after resource plan decisions, your market team manages that portfolio on a daily basis:
  - Real Time Desk manages 5 minutes price changes within next 24 hours and adjusts schedules to minimize impacts
  - Day Ahead Desk forecasts next day to end of month price changes, employs strategies optimizing renewable portfolio
  - Risk Desk actively protects load and markets assets one month to 60 months out in the future.





### Effects on Market and Austin Energy

 Our customers are exposed to market risk and they pay for it through the Power Supply Adjustment.

 Long term economic impacts our customers face due to shifts in technology that serve ERCOT's load add uncertainty and could mean upward price pressures on cost of electricity to our customers.

AE team is protecting and managing against that risk

# Questions