

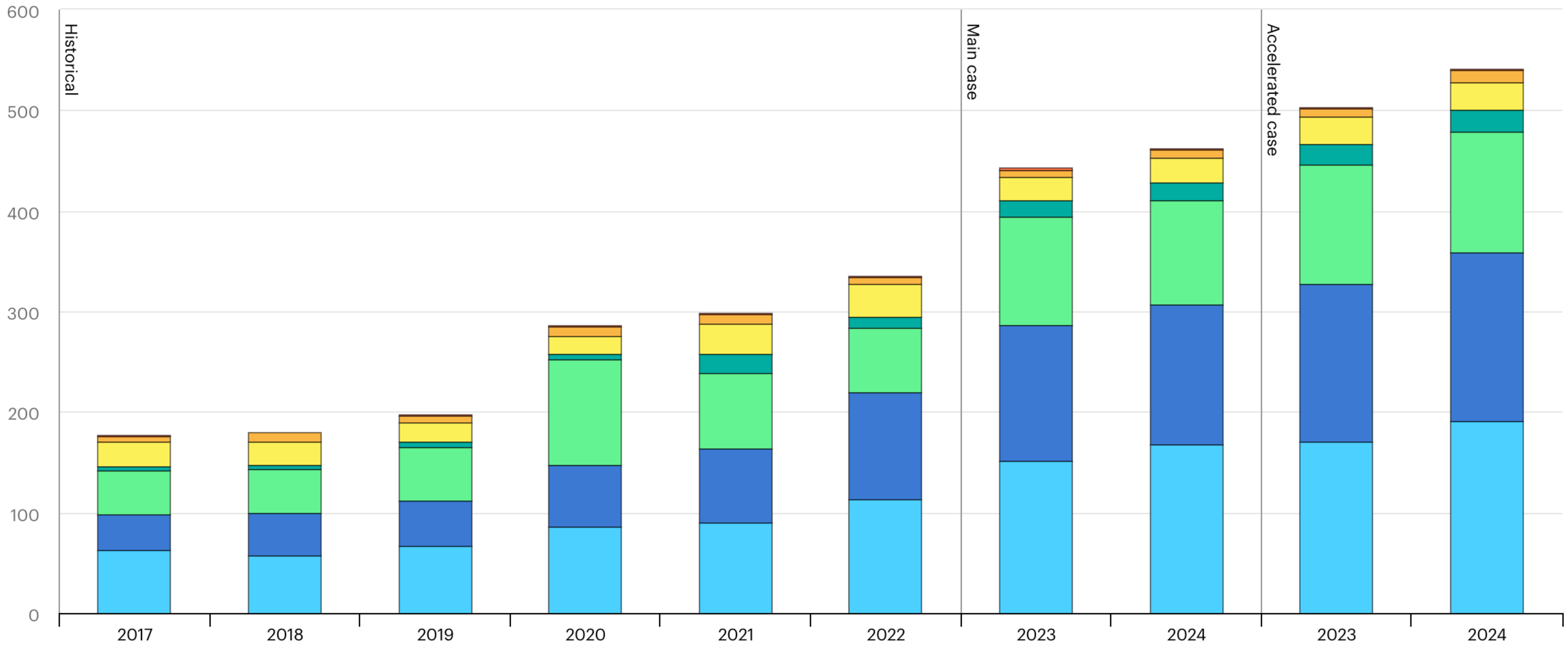
# Advanced Energy in Texas

Presented By: Micalah Spenrath

# What is Advanced Energy?

- Energy Efficiency & Demand Response
- Energy Storage
- Solar, Wind, Hydro, Geothermal & Nuclear
- Electric Vehicles
- Distributed Energy Resources ([DERs](#))

GW



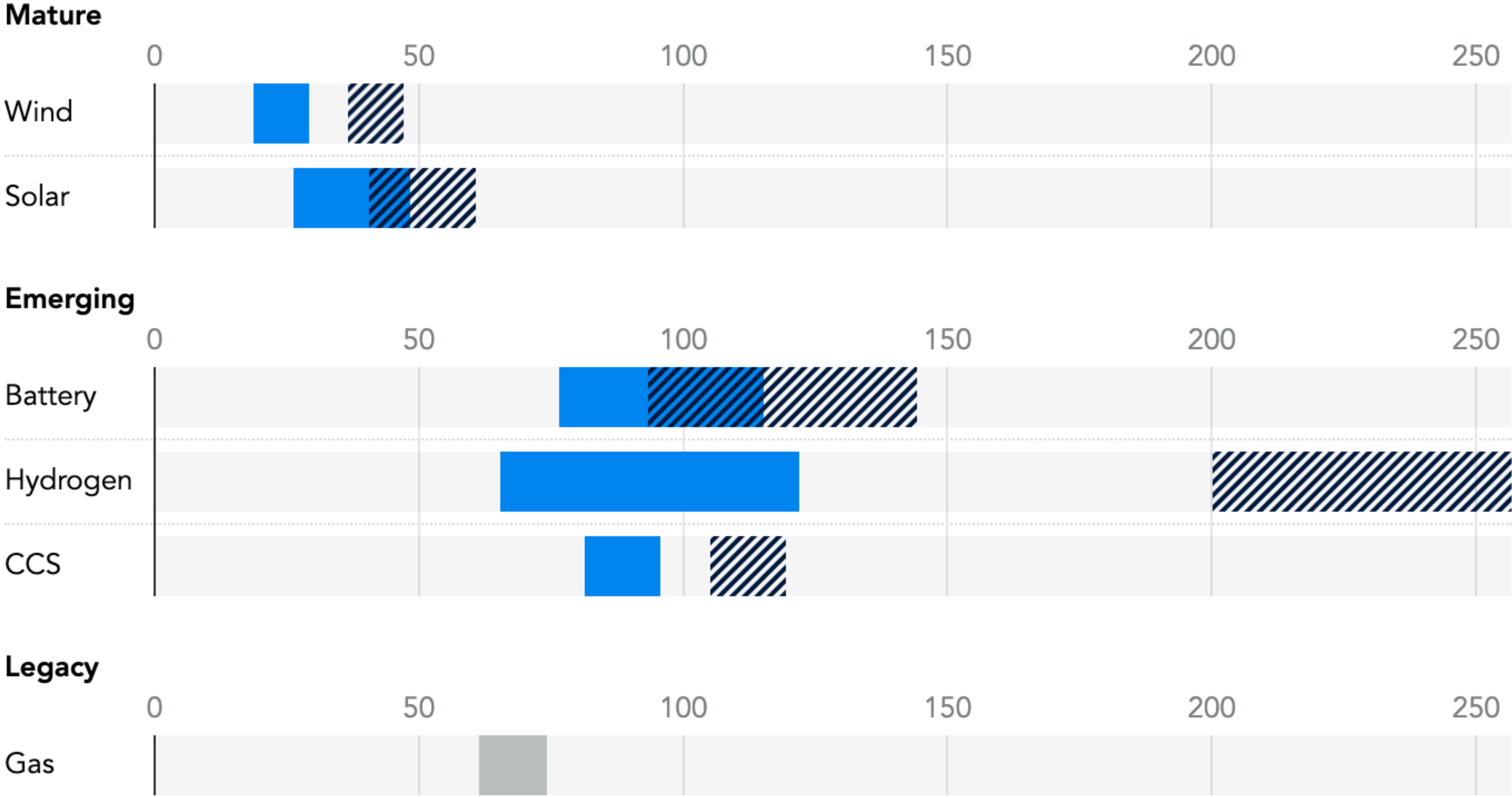
- PV-utility
- PV-distributed
- Onshore wind
- Offshore wind
- Hydropower
- Bioenergy
- Others

# What's missing from that list?

- Hydrogen
- Carbon Capture, Utilization and Storage
- Energy Storage
- Geothermal
- Modern Nuclear

# Impact of the IRA on energy costs in 2030

Pre-IRA costs (\$/MWh)
  Post-IRA costs (\$/MWh)
  N/A



Source: ICF

# Barriers to Benefits Realization

## Barrier 1: Permitting

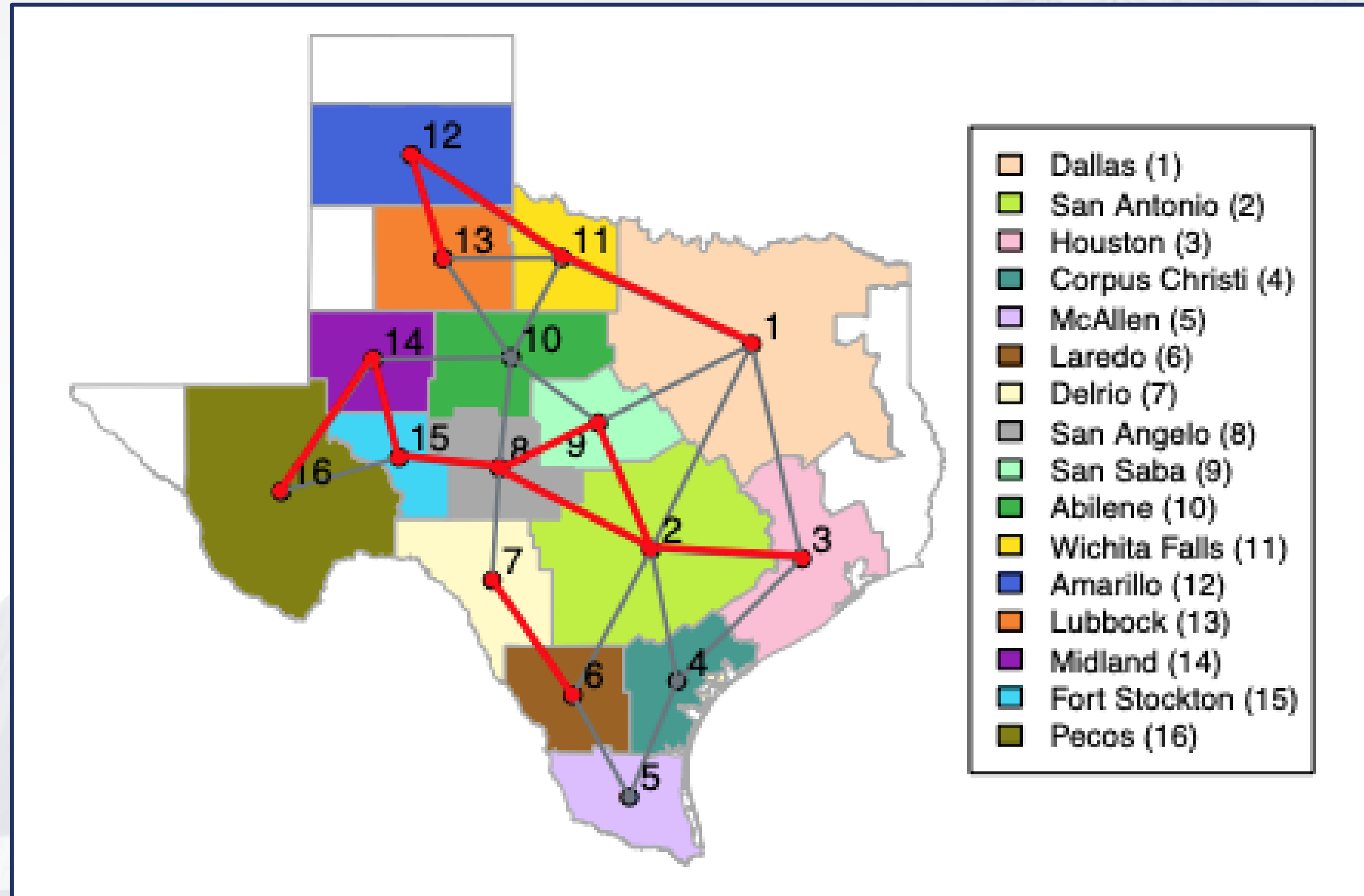
Action: Review and reform permitting policies in your municipality or county to ensure timely permitting of clean energy projects.

## Barrier 2: Transmission Limitations

Action: Stimulate the development of distributed energy resources in your area and advocate for grid modernization efforts. Call for additional state investment in T&D infrastructure.

Source: Boston Consulting Group, TAEBA

# Transmission Limitations



# Barriers to Benefits Realization

## **Barrier 3: Supply Chain Constraints**

Action: Support pro-business policies that create local supply chains and use local resources.

## **Barrier 4: Workforce Development**

Action: Establish programs to train workers for a clean energy economy. Increase funding for STEM programs & create direct pathways from education to advanced energy.

*Source: Boston Consulting Group*