

# Electrify Colorado

Public Engagement & Market  
Development



# Tri-State Generation and Transmission Association



# Tri-State's Diversity of Membership



We are a not-for-profit association of 43 member electric cooperatives and public power districts.

Together, we deliver reliable, affordable and responsible power to 1.3 million rural electricity consumers across nearly 200,000 square miles of the West.



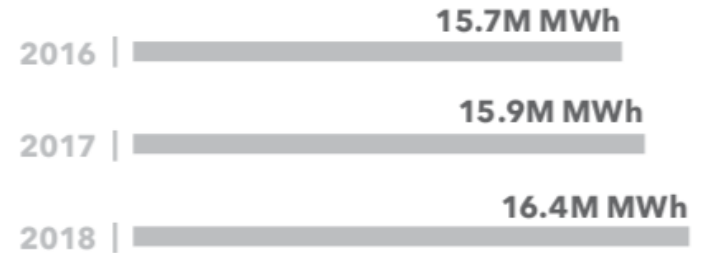
# Membership Growth



Energy grew 3.5 percent  
from 2017-2018

Coincident peak demand  
grew 4.4 percent from  
2017-2018

## Energy sold to members



## Member coincident peak demand



# Transmission and Generation Resources



5,665 miles of transmission  
4,630 megawatts of resources



Coal

Renewables



Hydro



Wind



Solar

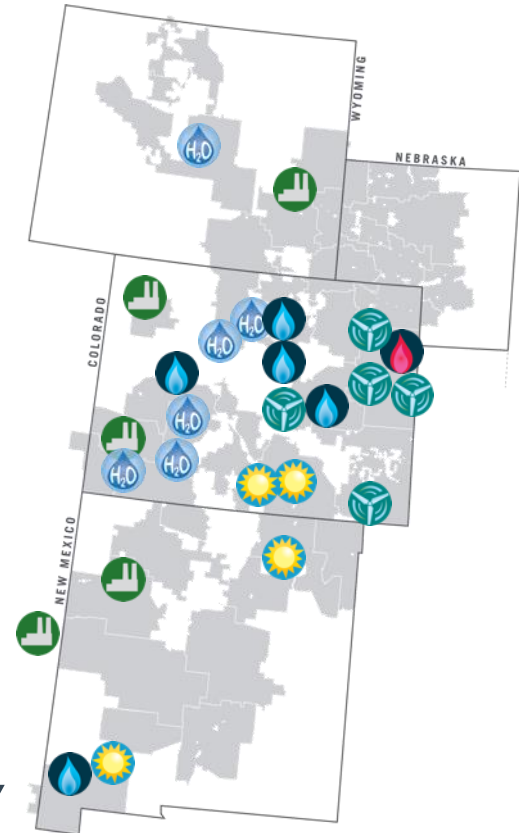
Member projects



Natural Gas/Oil

Contracts/Market

*In 2018, nearly at third of energy consumed came from renewable energy*



# Tri-State & Electrification



- Working with EPRI's Electrification Program, we initially studied;
- Electric pumps,
- Truck Stop Electrification,
- Electric Forklifts.

**EPRI** | ELECTRIC POWER  
RESEARCH INSTITUTE

# Tri-State & Electrification



- We also attended NRECA's Beneficial Electrification meeting,
- Periodically review their BE website and look for updates,
- Thanks to NRECA for planning this meeting!



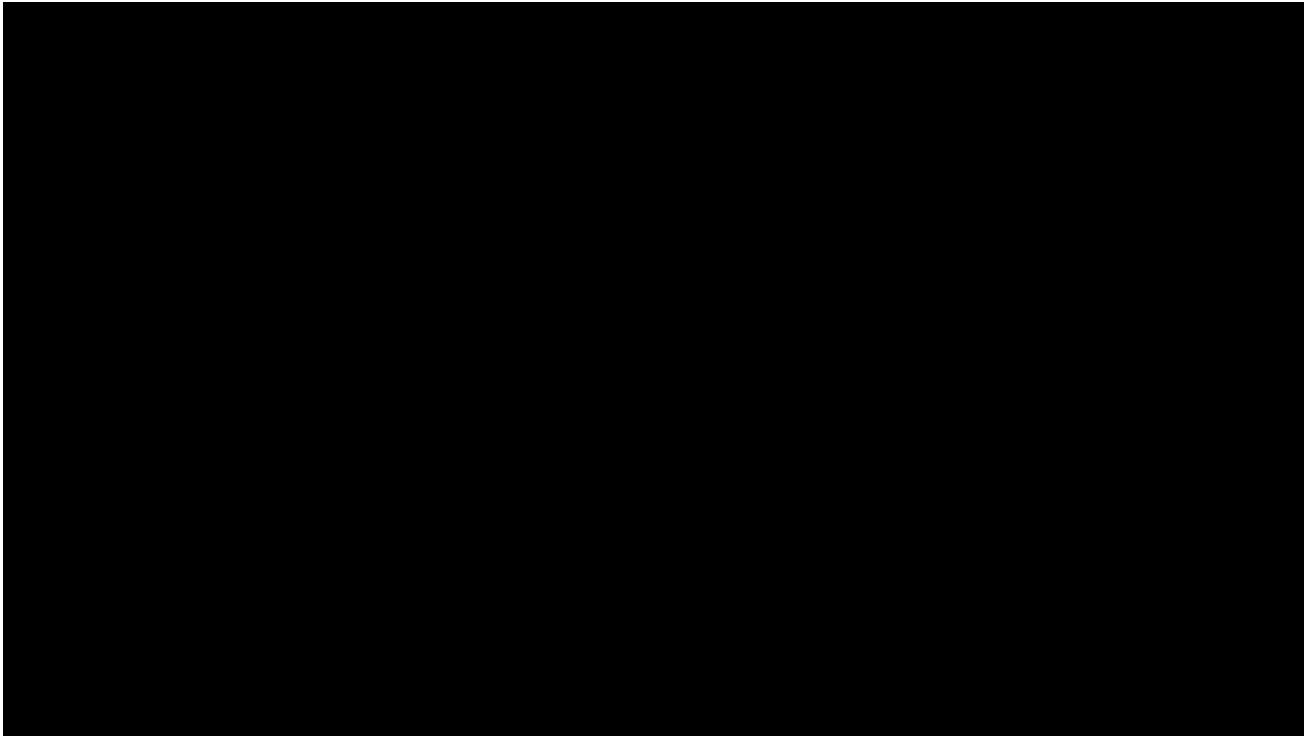
# Electric Forklift Video



- This video would not be possible without the help of:
  - John Parker, CEO United Power and Pete Rocha, Senior Storekeeper
  - Nate Figgins, Field Sales Mgr. FMH Material Handling Solutions
  - Tri-State Communications Department



# Electric Forklift Video



# Tri-State Surveyed Members



- Tri-State surveyed member CEO's and Mgrs. in Feb. and Oct. 2018. 5 questions,
  - Member Interest,
  - Types of electrification,
  - Tri-State assistance,
  - Challenges,
  - How do you support electrification.

# Member Electrification Survey



## Member System Electrification Survey

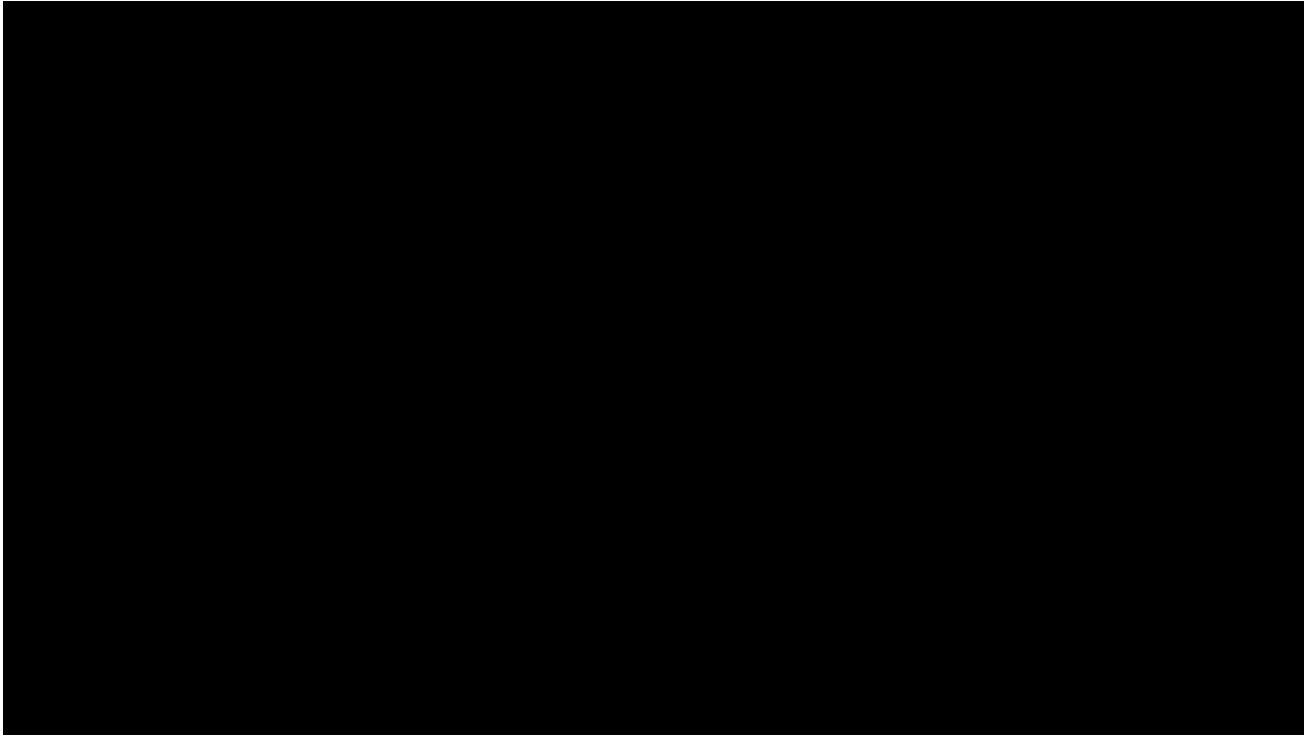
1. Is your System interested in having Tri-State continue efforts in electrification and providing your System with this information? Yes \_\_\_\_ No \_\_\_\_ Comments:
2. What types of electrification loads interest your System? Check all that apply:  
Electric Vehicles - Electric Forklifts - Truck Stop Electrification - HVAC (Heat Pumps, ETS, Air Conditioning, etc.) – Irrigation – Other.
3. How can Tri-State assist your System with electrification efforts? Check all that apply:  
Provide information on electrification interests - Make EPRI information available - Host Electrification / Education meetings - Offer rebates for electrification –  
Have Relationship Manager meet with my system to discuss further - Marketing / promotional items, (i.e. ad, brochures, commercials, etc.) - We are not interested at this time – Other.
4. What challenges may prevent electrification at your System? Check all that apply:  
Lack of member owner interest - Lack of member owner knowledge - Lack of vendor support  
Lack of vendor knowledge - Expense to convert - Existing equipment still operational and / or not depreciated - We've decided not to participate in electrification at this time - Other
5. What rebates does your System currently use to support electrification / energy efficiency?

# HVAC Electrification



- Majority of CEO's indicated HVAC as an electrification interest,
- Tri-State enrolled in EPRI's "NextGen" Heat Pump project,
- Installed heat pumps in 5 member homes in late 2018, monitor through 2019.

# Heat Pump Video



# Tri-State Electrification Rebates



- Truck stop – Up to \$2,500,
- Electric forklifts – Up to \$1,500,
- AS Heat Pumps – \$300/ton 15 / 17 SEER
- AS Heat Pumps - \$450/ton > 17 Seer
- EV Chargers Member Matching funds:  
Level 2 up to \$1,000 / Level 3 up to \$3,000

# Tri-State Next Steps



- Tri-State will continue to work with NRECA, EPRI, our members and others in the pursuit of electrification.
- Annual review of rebate program,
- Ongoing discussions with members for ideas on electrification support.

# Tri-State Generation and Transmission Association

