



# Electric Cooperatives of Arkansas

*Leading the charge for renewable energy*

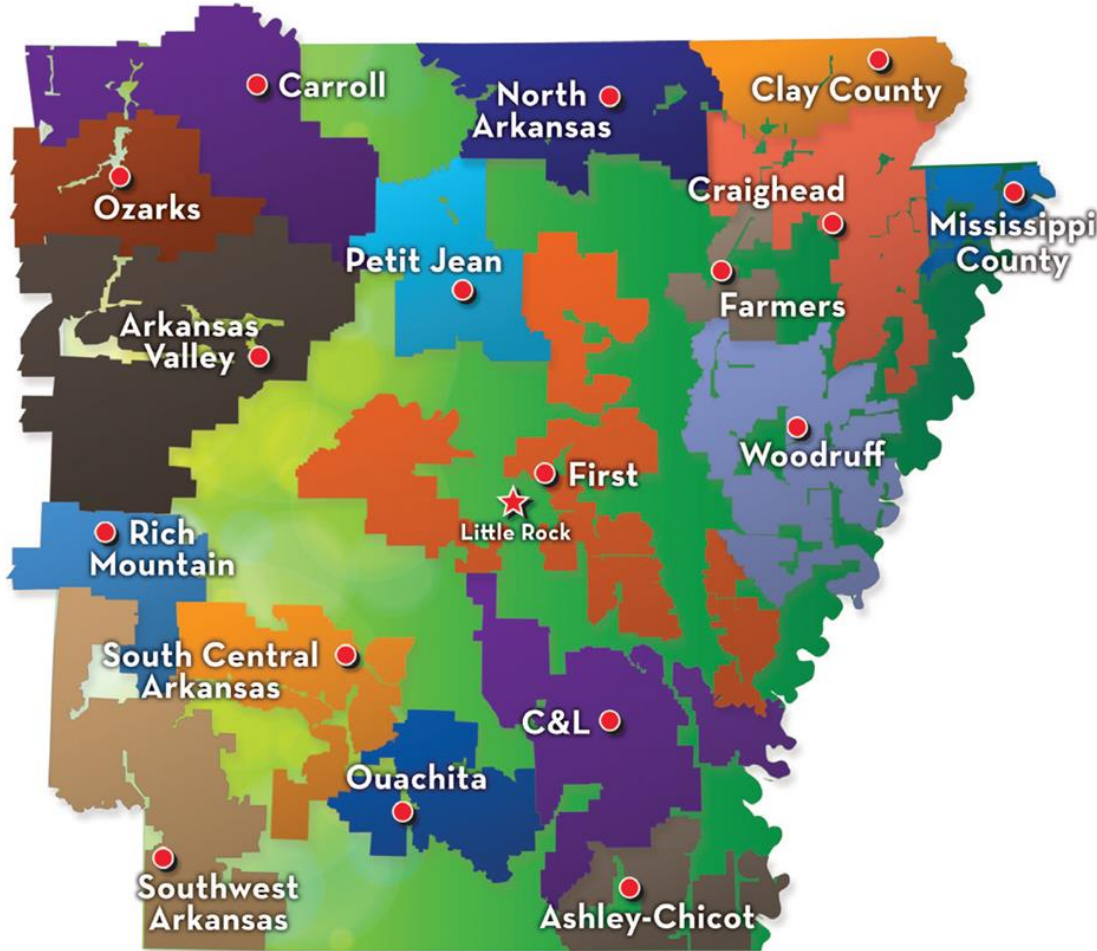


## Electric Cooperatives of Arkansas Overview

- 17 Distribution Cooperatives
- Cooperatives are owned by their members and locally managed
- Cooperatives serve 60% of the geographical area of the state in all 74 of 75 counties, but only 40% of the electric consumers. Serve just over 500,000 members or 1.2 million Arkansans.
- Serve parts of Oklahoma, Texas, Missouri and Louisiana.
- Arkansas cooperatives average six consumers per mile of line



# Electric Cooperatives of Arkansas Overview

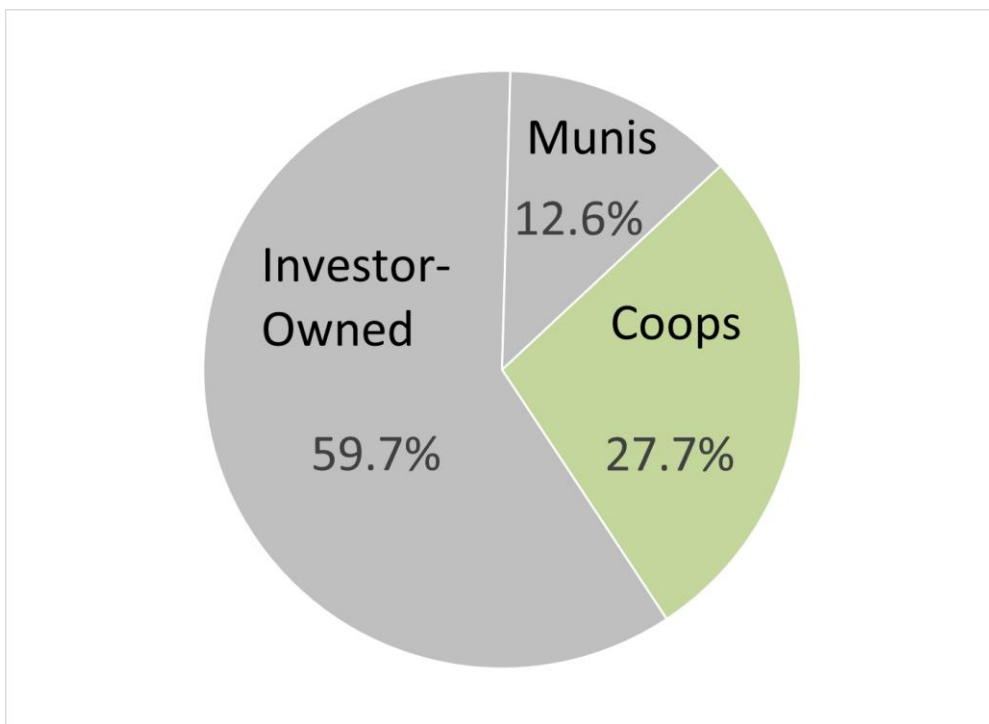


- Arkansas Electric Cooperative Corp. (AECC)
  - Generation and Transmission Cooperative formed in 1949 (regulated)
  - 359 Employees
- Arkansas Electric Cooperatives, Inc. (AECI)
  - Statewide Organization formed in 1941 (non-regulated)
  - 322 Employees
- 17 Electric Distribution Cooperatives
  - 1,560 Employees
- AECC + AECI + 17 Cooperatives =
  - 2,241 Employees
  - \$130 Million Payroll
  - \$24.7 Million Property taxes



# Electric Cooperatives of Arkansas - Sales

## Overall AR Electricity Sales



Based on 2014 data from U.S. Energy Information Agency

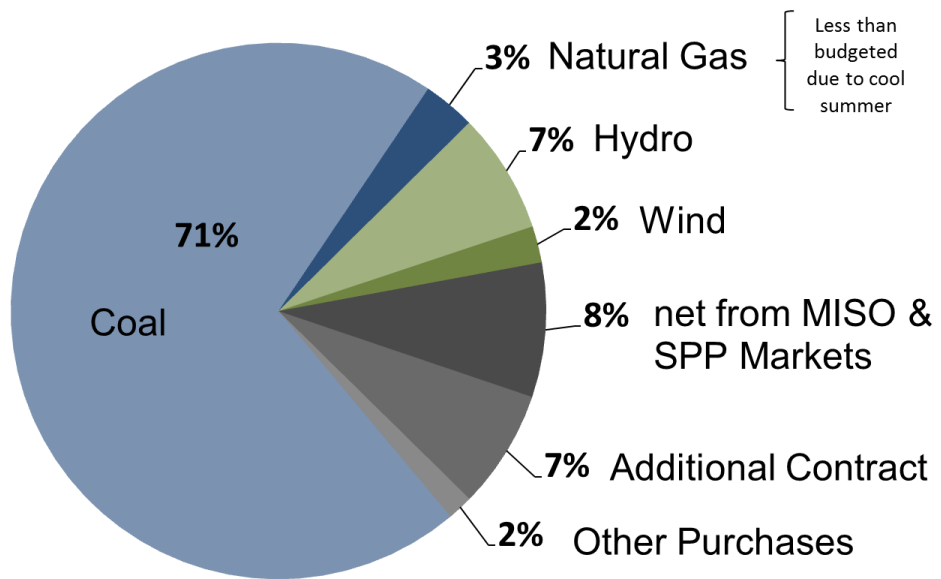
## Electric Coop Shares

- Residential: 34%
- Commercial: 15%
- Industrial: 30%
  
- Overall: 28%

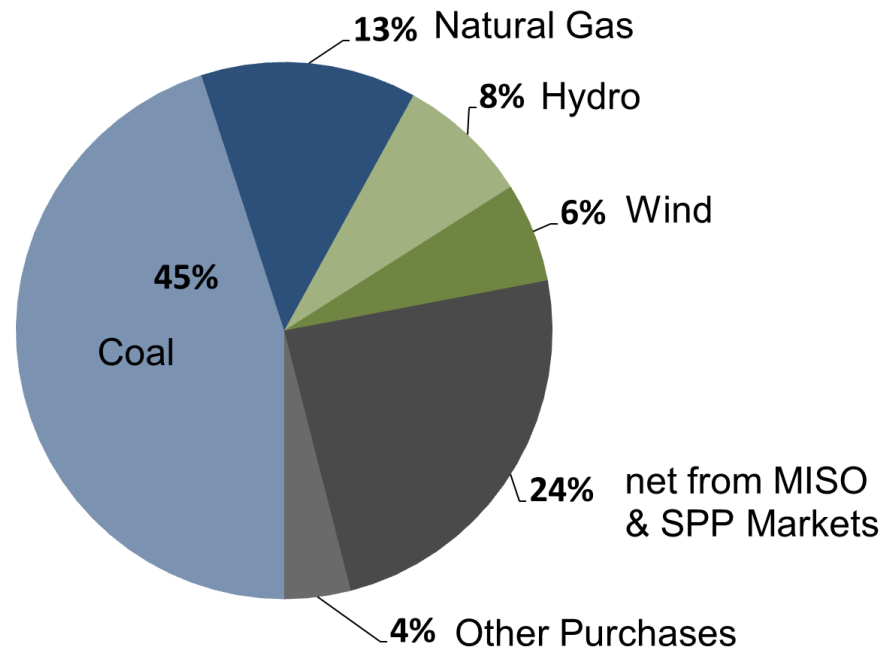


# Electric Cooperatives of Arkansas – Energy Sources

### Sources of AECC Energy in 2014

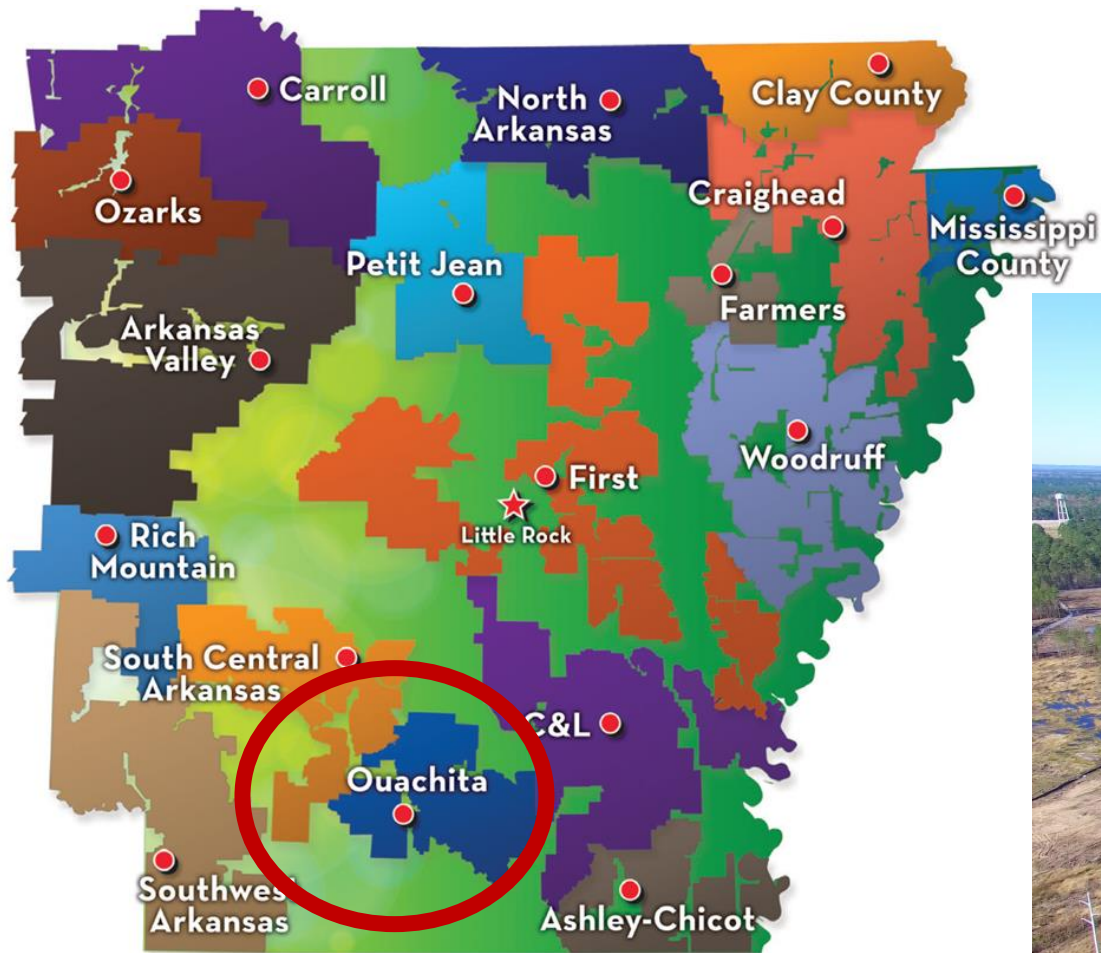


### Sources of AECC Energy in 2015





# Electric Cooperatives of Arkansas – Specific Projects

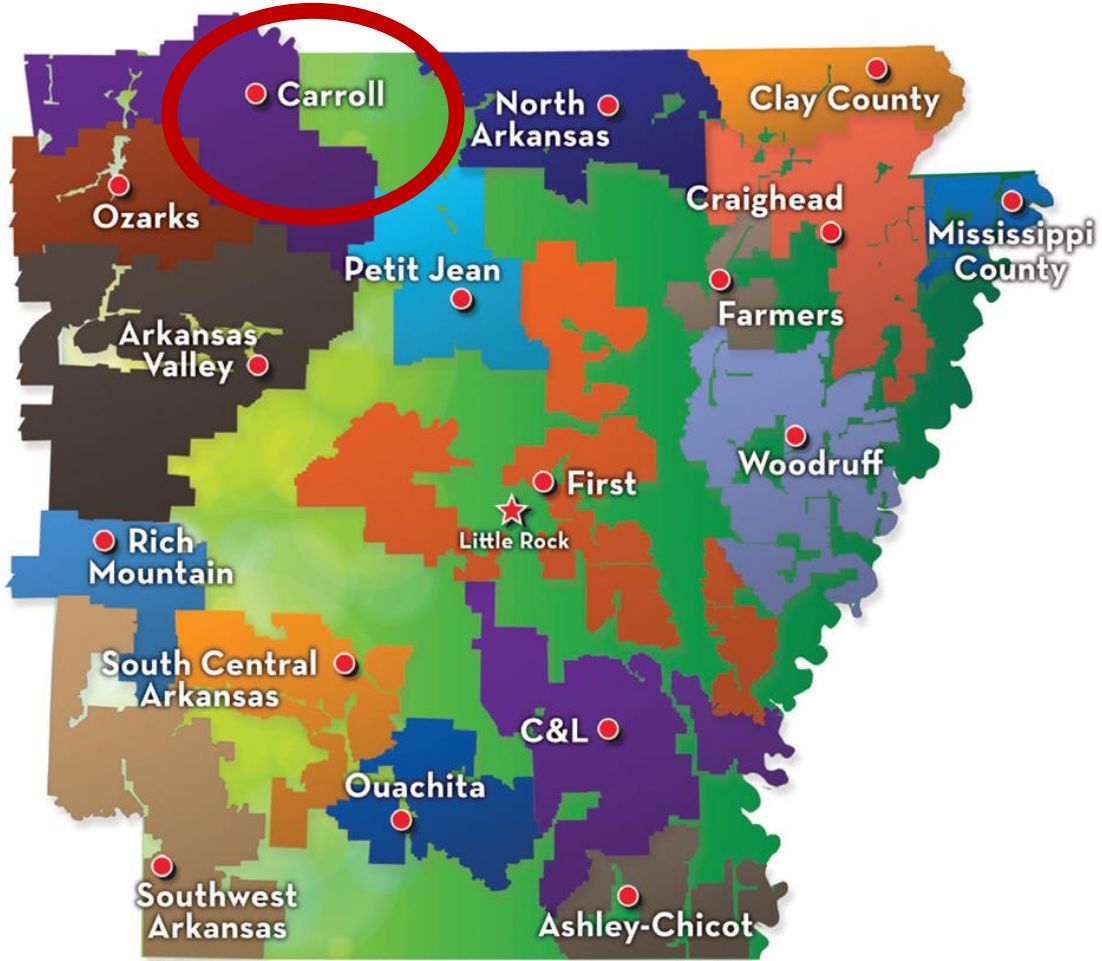


**Aerojet Rocketdyne – Silicon Ranch Solar Project – 13.5 MW**





# Electric Cooperatives of Arkansas – Specific Projects

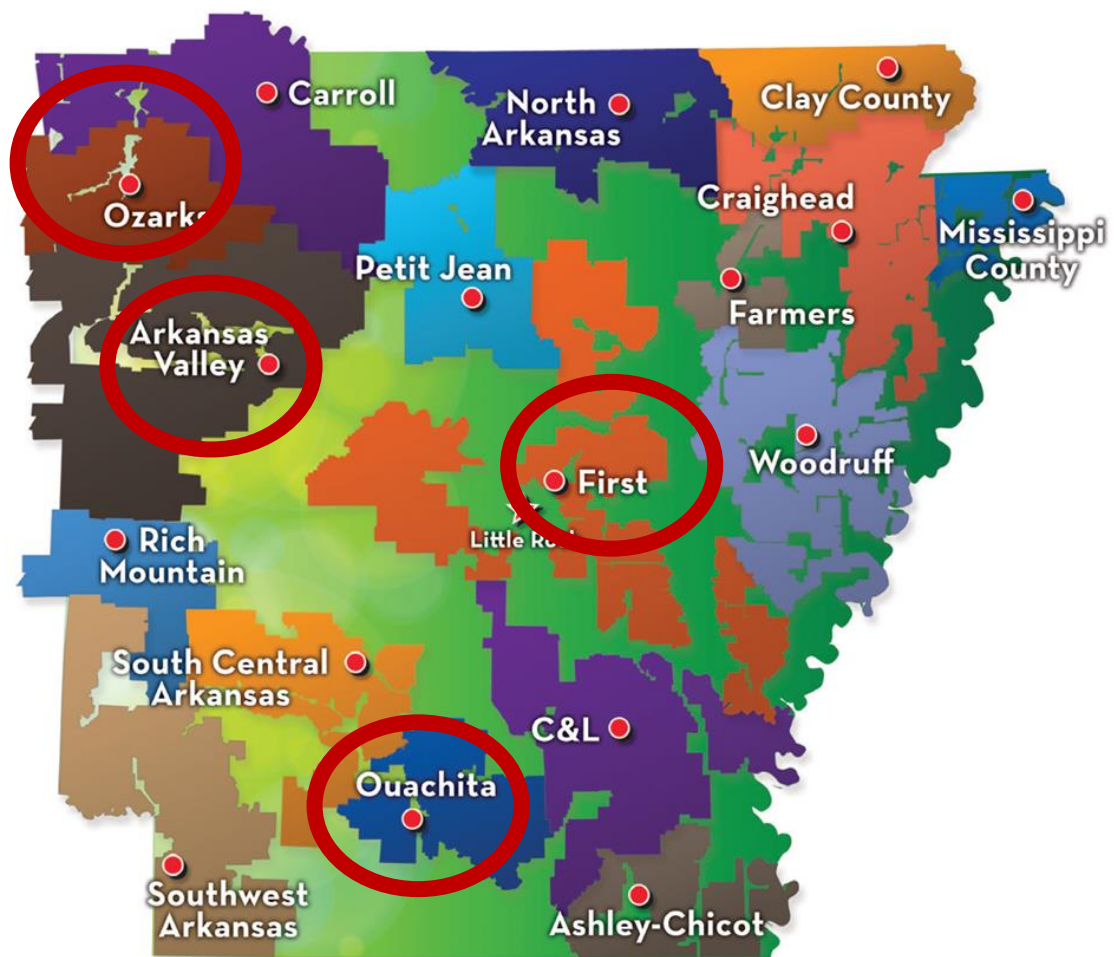


## Net Metering Customers





# Electric Cooperatives of Arkansas – Specific Projects



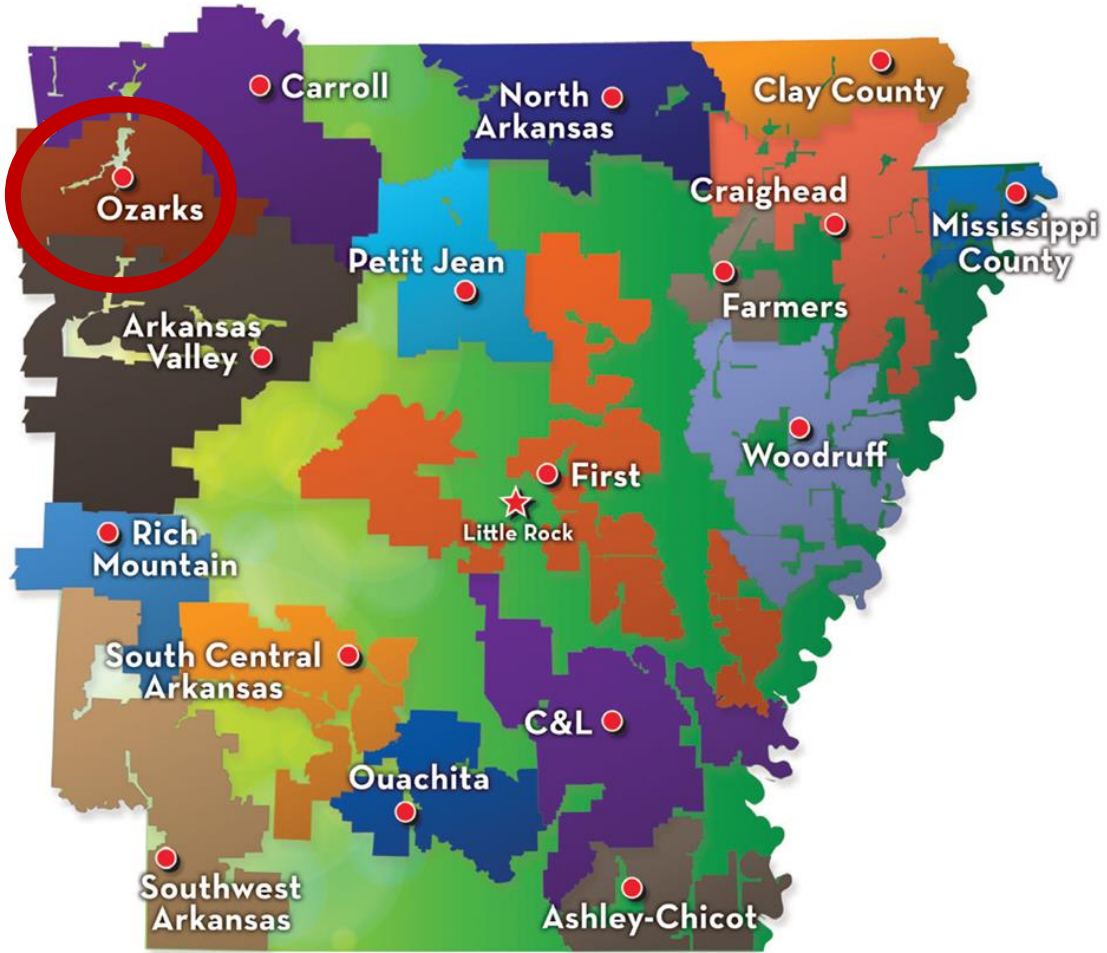
## Community Solar Projects







# Electric Cooperatives of Arkansas – Specific Projects

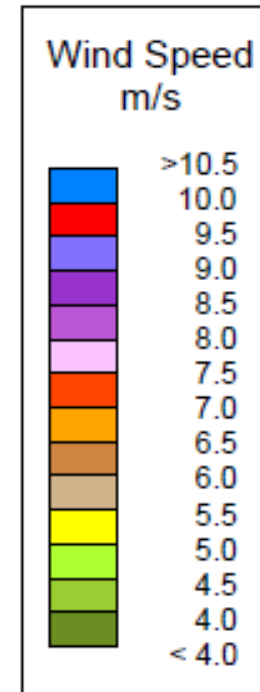
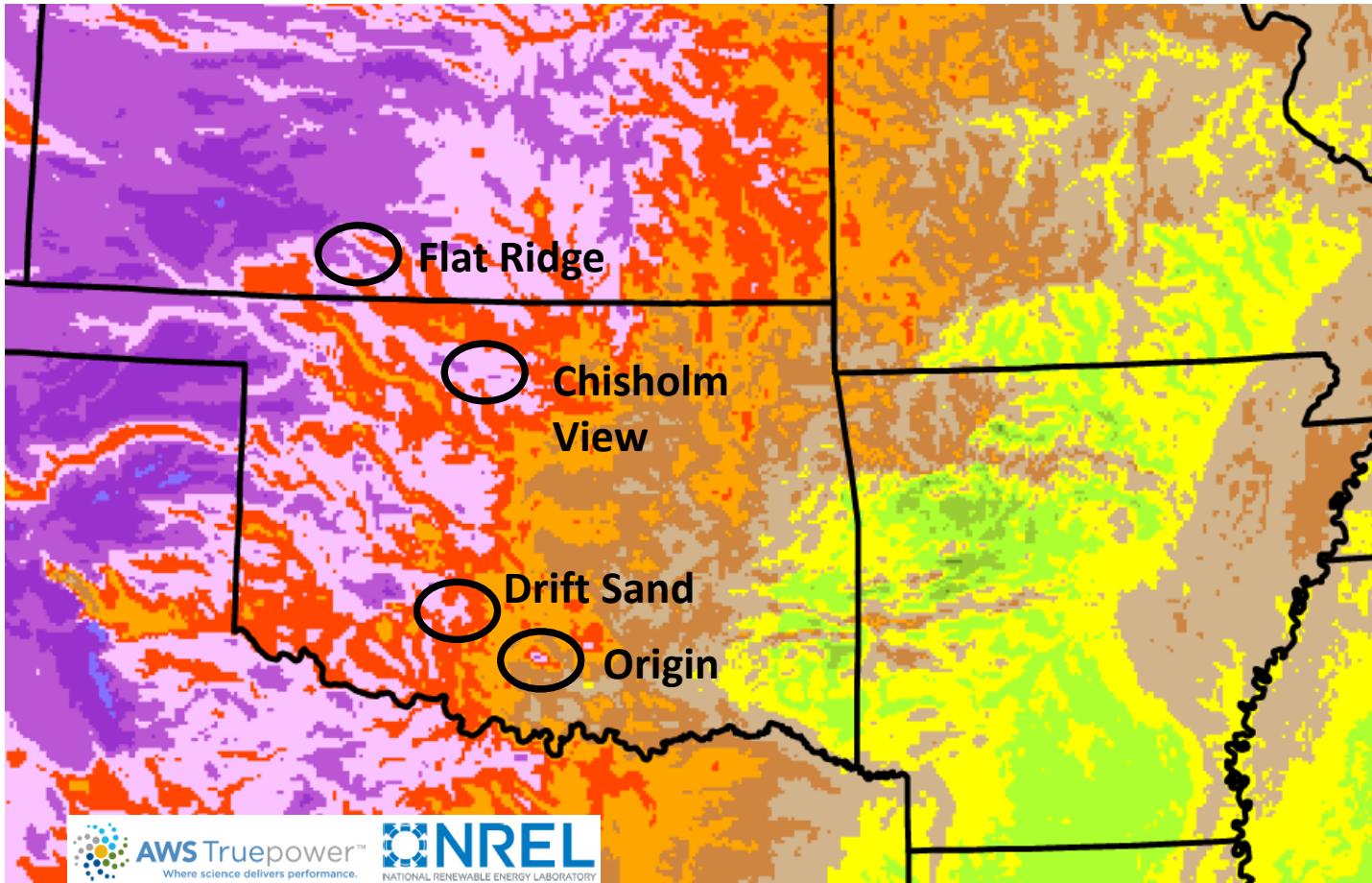


Eco Vista Landfill Methane Capture – 4 MW



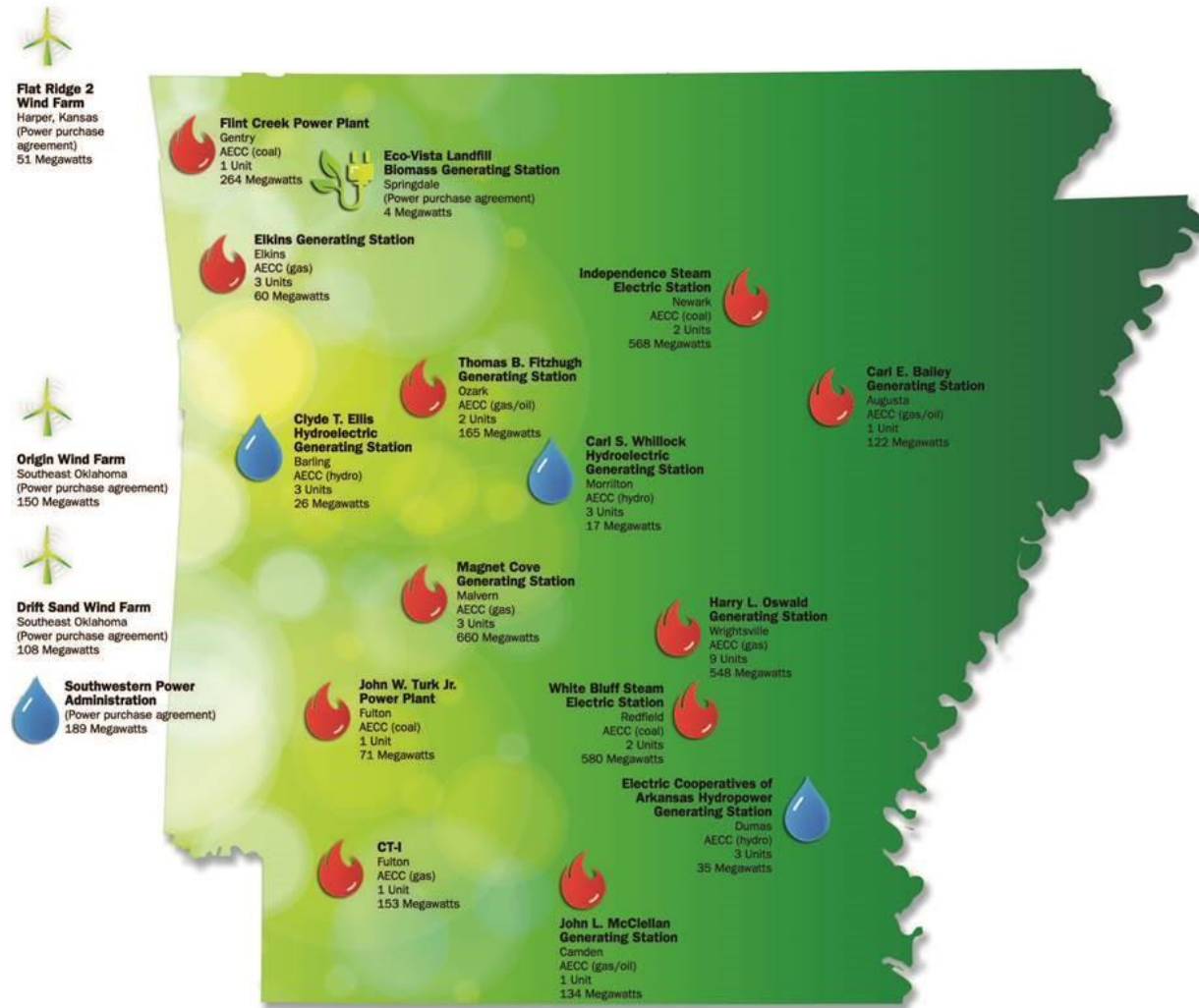


# Electric Cooperatives of Arkansas – Wind Purchase Agreements





# Electric Cooperatives of Arkansas – Overall Portfolio



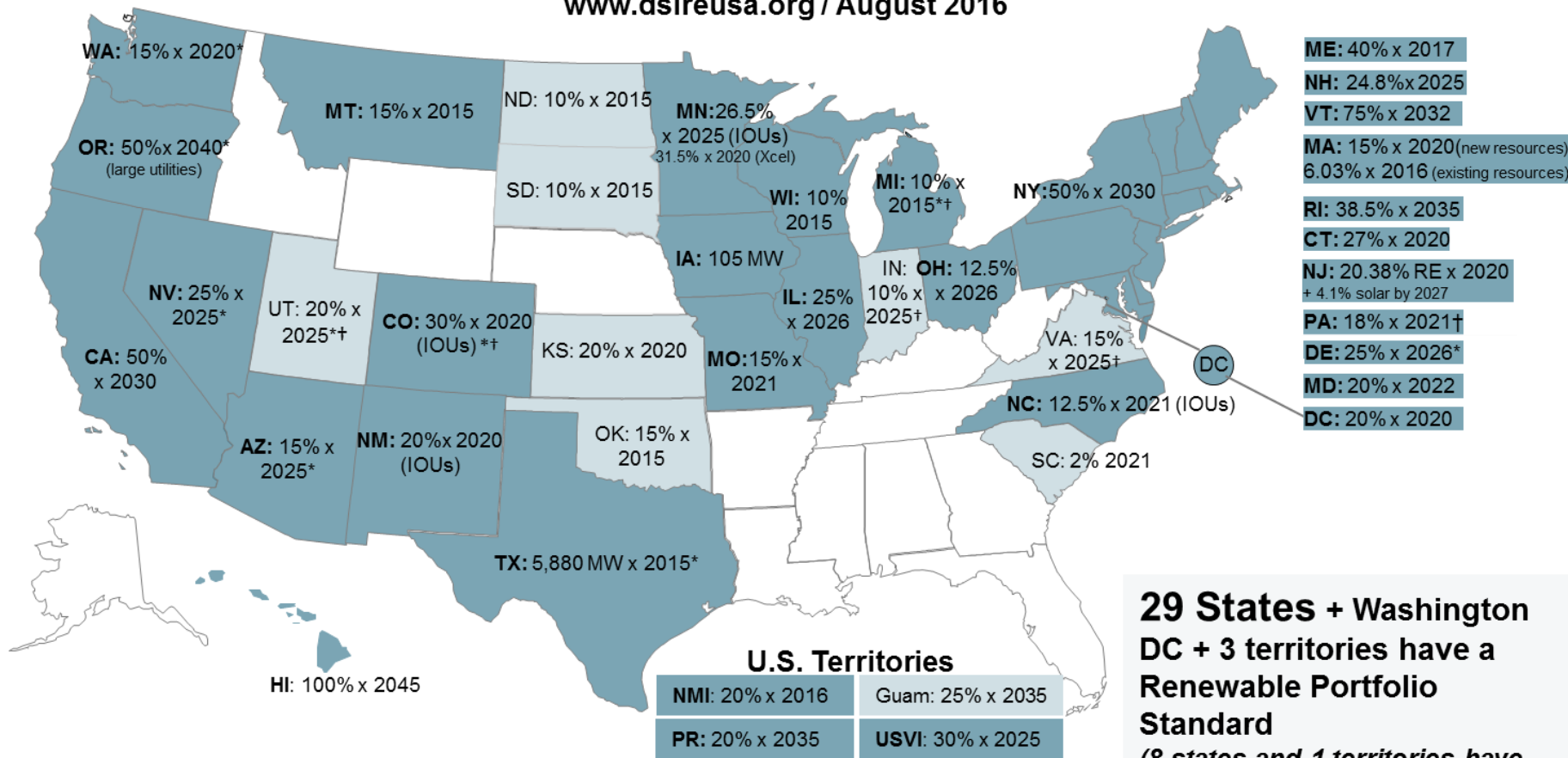
Wind, solar, biomass and hydro energy sources will comprise 18 percent of AEC's diverse portfolio of energy resources by 2017.



# Electric Cooperatives of Arkansas – RPS Comparison

## Renewable Portfolio Standard Policies

www.dsireusa.org / August 2016



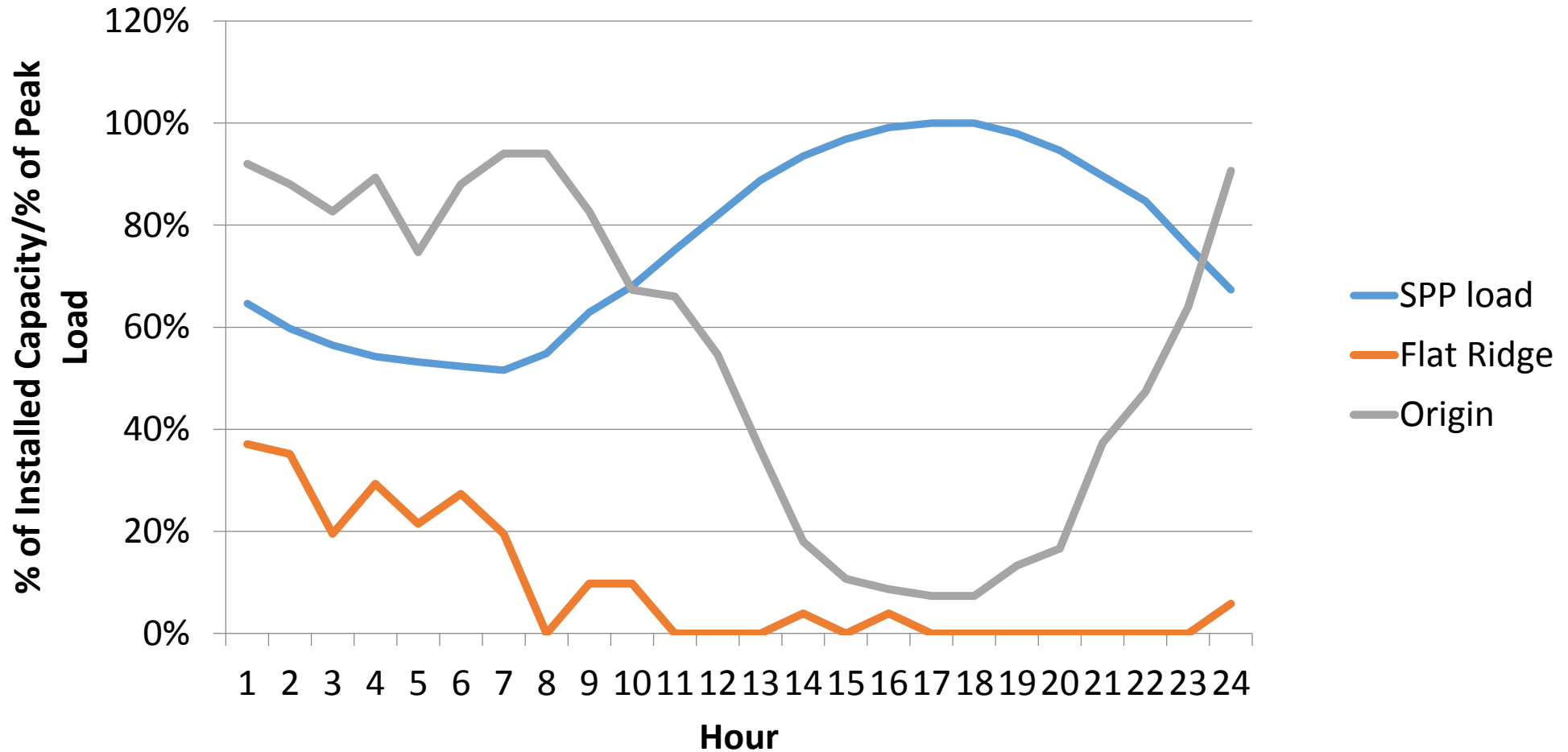
**29 States + Washington DC + 3 territories have a Renewable Portfolio Standard**  
*(8 states and 1 territories have renewable portfolio goals)*

Renewable portfolio standard  
 Renewable portfolio goal  
\* Extra credit for solar or customer-sited renewables  
† Includes non-renewable alternative resources



# Electric Cooperatives of Arkansas – Wind Generation v. Load

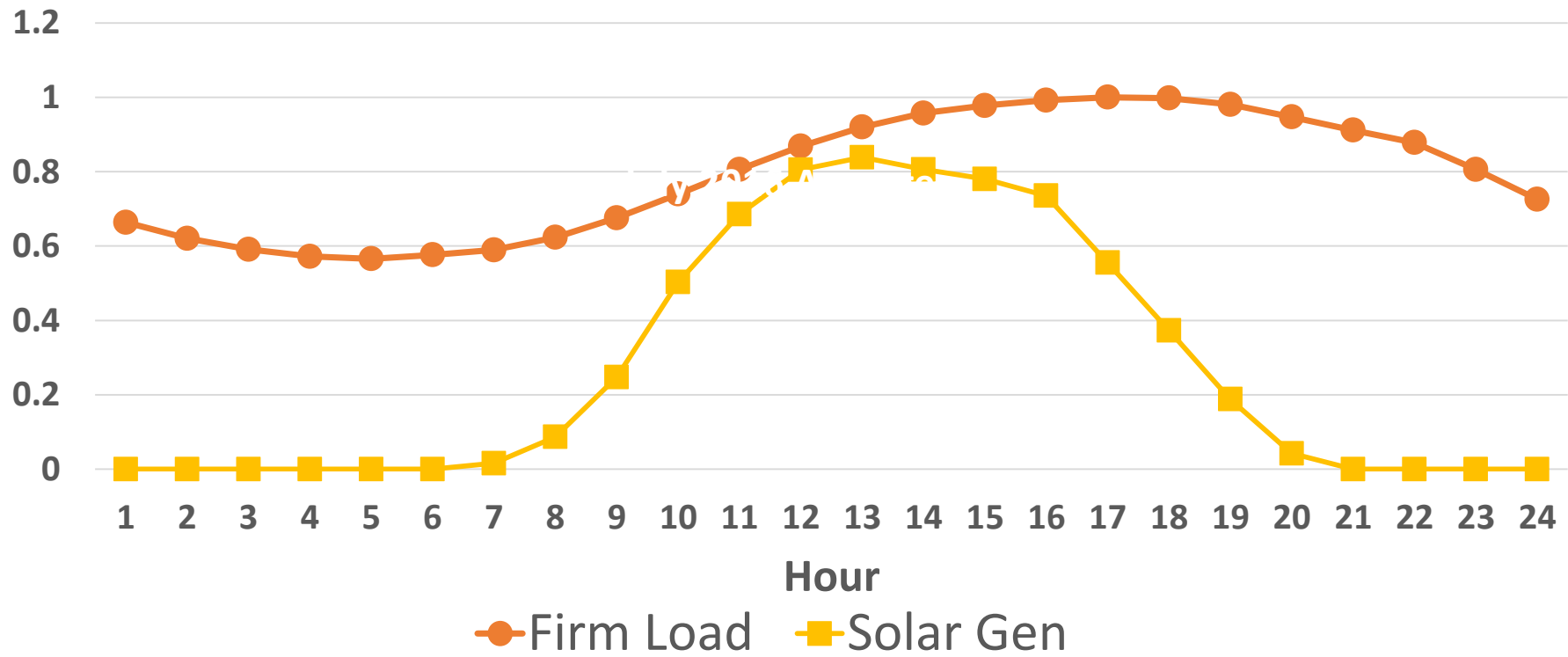
## Wind Generation and Load; August 9, 2015





# Electric Cooperatives of Arkansas – Solar Generation v. Load

## July 2016 Average





## Electric Cooperatives of Arkansas – Today's Power, Inc.



- Wholly-owned subsidiary of AECl.
- Provides renewable energy solutions, energy efficiency programs and emergency backupgenerators for large commercial, industrial or utility customers.
- Authorized and exclusive distributor of tenKsolar products in Arkansas, Tennessee, Mississippi, Louisiana, Oklahoma and Missouri.



## Electric Cooperatives of Arkansas – Future

- ***Post Coal Era?***
- EPA – Clean Power Plan
- Coal companies bankrupt
  - Peabody, ArchCoal, Patriot Coal
- Natural gas price stability
- Electric vehicles
- Energy efficiency
- Solar generation
- Wind generation
- New players in the industry
  - Apple

**disruptive threats**

**-or-**

***disruptive opportunities?***





## Electric Cooperatives of Arkansas

reliable • affordable • responsible

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