Arkansas Electric Cooperative Corporation

- AECC is a Generation and Transmission Electric Cooperative.
- It provides wholesale electric power to 17 distribution cooperatives statewide.
- AECC and its distribution cooperatives serve more than 500,000 homes, farms & businesses in the state of Arkansas.
- AECC was created on July 11, 1949 and is based in Little Rock.
- Assets – $1.8 billion with annual energy sales of $727 million
Arkansas Electric Cooperative Corporation

- AECC has 298 employees throughout the state.
- Our closest office to Fayetteville is located in Elkins where 6 transmission operations employees work.
- With regards to engineering, AECC has on staff electrical mechanical, civil, environmental, industrial and computer systems engineers.
- Most engineers obtain their Professional Engineers license.
- All engineers are encouraged to participate in research groups, such as GRAPES, EPRI, and others.
Electric Cooperatives of Arkansas Service Territories

All 75 counties have load served by AECC power

AECC provides electric power to 62% of the land area of Arkansas
Arkansas Transmission System

Dist. Coops own and operate over 200 substations

AECC owns 335 miles of trans. lines (69-161kV) & 68 substations (69-500kV)
• A very active area within AECC today is the design and construction of transmission facilities.
• There are many active switching station and substation projects as well as several miles of upcoming t-lines.
• Two nearby projects are the expansions of the AECC East Fayetteville and Elkins 161-69kV substations.
• A large 161kV system conversion is underway.
AECC Transmission Engineering & Construction

Cato 115kV
3 element
Ring Bus Switching Station

Energized - June 2016
AECC Transmission Engineering & Construction

Heber Springs
East 69-13.2kV
Distribution Substation

Energized – November 4, 2016
AECC Transmission Engineering & Construction

Jonesboro South 69kV Tap and Transmission Line

Energized – 2012

Arkansas Electric Cooperative Corporation
We Are Arkansas
AECC Mobile Substation Equipment

• AECC owns 10 mobile substations of various voltage and power ratings.
• Mobile 11 will arrive in January 2017. It will be the largest of the distribution substation class.

  HV - 161 x 138 x 115kV (Delta)
  LV - 26.4/15.2 x 13.2/7.62kV (Wye)

Power – 30 MVA
Weight – 116,132# (w/o truck)
AECC Mobile Substation Equipment
2016 AECC Owned Generating Capability (MW)

<table>
<thead>
<tr>
<th>Source</th>
<th>Capacity (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Capacity</td>
<td>3520</td>
</tr>
<tr>
<td>Natural Gas</td>
<td>1844</td>
</tr>
<tr>
<td>Coal</td>
<td>1509</td>
</tr>
<tr>
<td>Hydro</td>
<td>167</td>
</tr>
</tbody>
</table>

- Natural Gas: 52%
- Coal: 43%
- AECC Hydro: 5%
AECC Energy Sources
2016 January Through June
(MWh)

Total: 4,735,742 MWh

- Coal: 46.3%
- Natural Gas: 31.3%
- Wind: 8.3%
- Purchased Hydro: 6.8%
- AECC Hydro: 6.8%
- Solar, Landfill Gas: 0.5%
2016 AECC Generating Capability (MW)

AECC Annual Energy Sources for Member Needs 1964 Thru 2018
(Actual thru 2015 and a projection for 2016-2018)

- Fossil Fuels
- Hydro, Wind, Solar & Biomass

Annual MWh

Member Needs including energy losses