

# Electric Cooperatives of Arkansas

The Mix Matters



# **Cooperative Facts**

- Cooperatives are owned by their members and locally managed
- Cooperatives are regulated by the Arkansas Public Service Commission
- Cooperatives serve 60% of the geographical area of the state in 74 counties and 40% of the electric consumers
  - Approximately 500,000 accounts
- Arkansas cooperatives average seven consumers per mile of line, whereas investor-owned utilities serve an average of 36 consumers per mile of line.



**Electric Cooperatives** of Arkansas We Are Arkansas



#### Arkansas Electric Cooperative Corporation

- 3,418 megawatts of generation resources
- Diverse portfolio including coal, gas, hydropower, wind and biomass
- Below market production costs
- Average residential retail rate \$0.085/kWh
- More than \$2.1 billion in generation investments
- Owned by our 17 member cooperatives, who in turn are owned by their member consumers



## **First Electric Coop-Heber District**

- Serves approximately 18,500 Member accounts in parts of four counties:
  - Cleburne Independence Stone White
- Full service office -150 Industrial Park Rd., Heber Springs 29 employees
- Area board members-Jimmie Crockett Rose Bud Tracy Hudspeth Drasco



# **First Electric Coop-Heber District**

#### March Billing-

- 2,021 late payments
- 279 in collections
- 201 Delayed Payment Arrangements made

#### Fluctuation in Cost of Energy Adjustments

- January COE- .0000093 x 1050kwh=\$.009
- February COE- .0058901 x 1050kwh=\$5.64
- March COE- .0169191 x 1050kwh=\$17.76



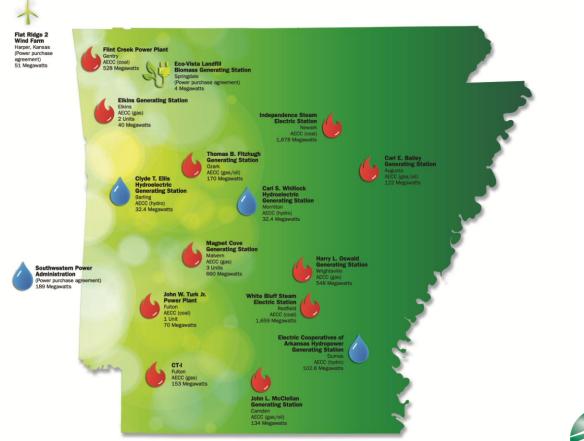
# **First Electric Coop-Heber District**

#### **Energy Efficiency Products and Services**

- Walk thru energy audits-Basic observations, both inside and out, looking for opportunities and recommending improvements
- Diagnostic energy audits- Tests the home for air infiltration through the use of blower door testing and infrared thermal imaging
- Marathon water heaters
- Home Improvement loans
- Heat and Air filter change program



#### **AECC Generation Map**



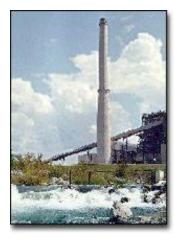


#### **AECC Coal Generation Facilities**



#### Independence

Newark Unit 1 (1983) 836 MW (AECC = 293 MW) Unit 2 (1985) 842 MW (AECC = 295 MW)



Flint Creek Gentry (1978) 528 MW (AECC = 264 MW)



#### White Bluff

Redfield Unit 1 (1981) 815 MW (AECC = 285 MW) Unit 2 (1982) 844 MW (AECC = 295 MW)



#### Newest, State-of-the-Art Coal Facility



#### John W. Turk, Jr.

Fulton 600 MW (AECC = 70 MW)



# **AECC Natural Gas Generation Facilities**



Thomas B. Fitzhugh Ozark (1963; 2003) 170 MW



Carl E. Bailey Augusta (1966) 122 MW



John L. McClellan Camden (1971) 134 MW



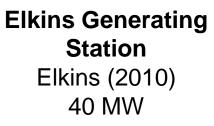
#### Fulton CT-1

Fulton (2001) 153 MW



#### **AECC Natural Gas Generation Facilities**







Harry L. Oswald Generating Station Wrightsville (2005) 548 MW



Magnet Cove Generating Station Magnet Cove (2012) 660 MW



### **AECC Hydroelectric Facilities**



Clyde Ellis Near Van Buren (1988) 26 MW



Electric Cooperatives of Arkansas Near Dumas (1999) 35 MW



Carl Whillock Morrilton (1993) 17 MW

Three hydroelectric plants generated power equivalent to 350,000 tons of coal or 900,000 barrels of oil last year.



#### **Power Purchase Generation Facilities**





#### **Eco-Vista Landfill**

*(Biomass)* Springdale 4 MW

#### Flat Ridge 2 Wind Farm

*(Wind)* Kansas 51 MW



# **Average Retail Price of Electricity** (Residential)

	(Cents/kWh)
Hawaii	36.58
Rhode Island	20.60
Massachusetts	20.14
New York	18.24
Alaska	18.10
Connecticut	17.57
Vermont	17.05
California	16.47
•••••	
Nebraska	9.17
Missouri	9.09
West Virginia	9.08
Arkansas	8.90
Louisiana	8.72
Washington	8.64
North Dakota	8.55
Oklahoma	8.14



# **Legislative and Regulatory Issues**

- The Mix Matters
- EPA's Carbon Dioxide Emission Regulations
- "All-But-One" approach-"Clean Energy Standard"
- Take Action at action.coop

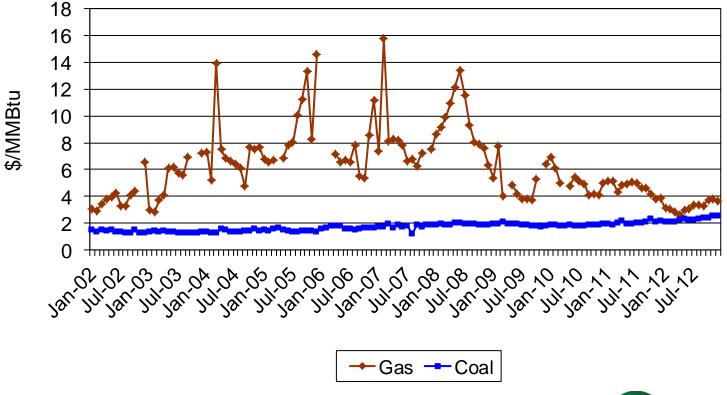


## **AECC Average Fuel Cost (2013)**

# Natural gas\$3.94/MMBtuCoal\$2.59/MMBtu

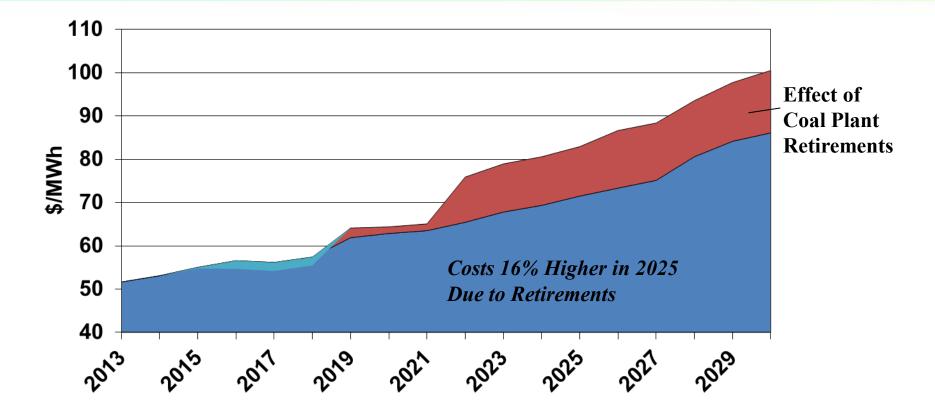


# Natural Gas and Coal Costs for AECC Facilities (Ten-year History)



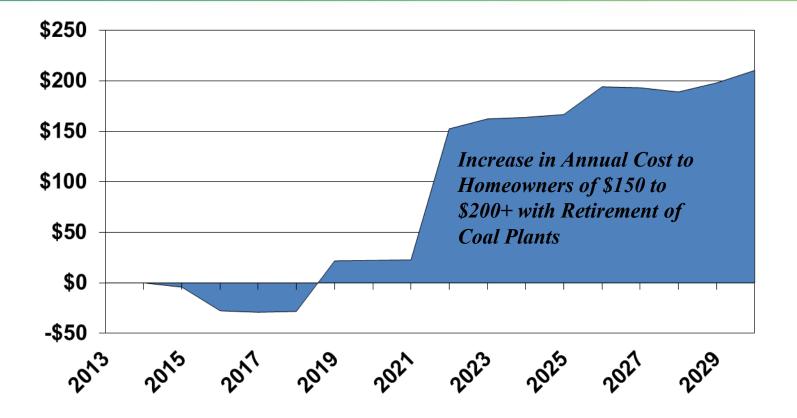


# Wholesale Power Costs per MWh Effect of Coal Plant Retirements



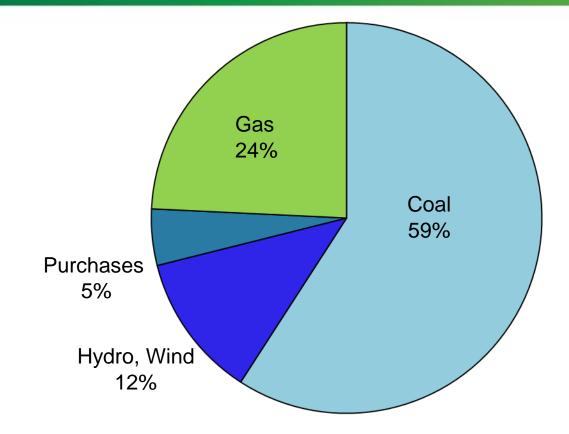


# Increase in Annual Residential Cost Effect of Coal Plant Retirements





# Forecast of Source of Energy for Sales to Members, 2020



Hydro includes purchased hydro from SWPA (3%)

Forecast based on economic dispatch.



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• Your comments to EPA are needed to ensure reliable, affordable electricity.



America needs an all of the above strategy to KEEP ELECTRIC BILLS AFFORDABLE

Urge EPA to reconsider it's "ALL-BUT-ONE" approach