Clean Energy & Energy Efficiency
How They Are Helping Missouri’s Economy

Warren Wood
Vice President, External Affairs and Communication
Ameren Missouri

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Levelized Cost Of Energy (LCOE) for Resource Options

Note: Does not reflect inclusion of tax incentives. Blue denotes energy efficiency. Black denotes existing coal. Orange denotes intermittent resources. MAP energy efficiency reflects costs and energy savings incremental to RAP.
Energy Efficiency Programs Benefit Everyone

Enable residents and businesses to invest in efficiency upgrades now, and continue realizing long-term energy savings.

Support local economic growth by creating opportunities for hundreds of Missouri contractors and retailers.

Empower our customers to gain more control over their energy usage without sacrificing comfort.

Meet our customers’ future energy needs at the lowest costs and as the greenest option, compared with other potential resources.

Delay the need to build new coal-fired energy centers, allowing Ameren Missouri to focus on diversifying our energy generation portfolio, including renewable power.
Energy Efficiency Programs 2013 - 2015

Residential

- Heating & Cooling
- Refrigerator & Freezer Recycling
- Energy Efficient Products
- Lighting (CFL/LED Discounts)
- Low Income
- In home Energy Analysis

Business

- New Construction
- Retro-Commissioning
- Customer Incentives
- Heating & Cooling
- Lighting
- Data Center/IT Systems
- Commercial Kitchen Equipment
- Motors/Motor Controls
Energy Efficiency Delivers Results

96,000 homes
Since 2009, customers saved as much electricity as the energy consumed by 96,000 average homes.

116,000 vehicles
By the end of 2015, we’re on track to reduce as much CO₂ as taking 116,000 vehicles off the road.

4+ million lbs.
Together with our customers, we helped divert more than 4 million pounds of metal, plastic and glass from landfills through our Refrigerator/Freezer Recycling program.

$3+ benefits
For every $1 spent on program costs, our customers enjoy more than $3 in benefits.
Energy Efficiency Programs 2016 - 2018

• The new proposal, which has already received support from the Division of Energy, Natural Resources Defense Council, Kansas City Power & Light, KCP&L Greater Missouri Operations Company, and United for Missouri, is a win-win solution for all of our stakeholders and our customers.

• Total energy savings target is 583,500 MWh

• Program budget is approximately $200 million

• Low-income program investment is approximately $11 million

• We will deliver energy savings to customers who are owners and operators of multi-family, low-income properties while benefiting tenants of such buildings.
Energy Efficiency Programs 2016 - 2018

**Residential**
- Heating & Cooling
- Refrigerator & Freezer Recycling
- Energy Efficient Products
- Lighting (CFL/LED Discounts)
- Low Income
- Students Energy Efficiency Kits *(New)*

**Business**
- New Construction
- Retro-Commissioning
- Customer Incentives
- Heating & Cooling
- Lighting
- Data Center/IT Systems
- Commercial Kitchen Equipment
- Motors/Motor Controls
- Small Business Direct Install *(New)*
Wind Generation

Ameren Missouri signed its first ever contract for wind energy on June 10, 2009

- Horizon Wind Energy’s Pioneer Prairie Wind Farm located in north central Iowa
- 15 year contract
- 102 MWs - 62 turbines spanning 10,000 acres
- Annual Production
  - ~300-315,000 MWhs

In our most recent integrated resource plan we announced the addition of another 400 MW of wind.
Largest Investor-Owned Solar Energy Center in Missouri

O’Fallon Renewable Energy Center

- Delivering power to customers as of Dec. 2014
- 5.7 MW Generation
- More than 19,000 solar panels
Ameren Missouri Hydroelectric Facilities

Keokuk Renewable Energy Center
• Built in 1913
• 137 MW
• Generates approximately 900,000 MWhs - enough electricity to power 75,000 homes

Bagnell Dam and Osage Energy Center
• Operating began 1931
• 234 MW
• Generates approximately 500,000 MWhs - enough electricity to power 42,000 homes
MO Farmers Growing Fuel to Serve Our Customers

On August 20th Ameren Missouri, Enginuity and a Large Coalition of Farmers Announced a MOU to Work Toward Commercial Deployment of Technology to Convert MO Grown Biomass to a Coal-Like Material to Burn in Existing Power Plants
Maryland Heights Renewable Energy Center – Turning Trash into Electricity

Landfill gas development: 3 - 4.9 MW gas turbines

~100,000 MWhs annually

One of the largest landfill-gas-to-energy projects in the country