



Energy Efficiency
PROGRAM

Ameren Illinois Energy Efficiency Summer Internship Program Webinar #2

Energy Efficiency 101

Meet Energy Professionals



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John Carroll

Residential Program Manager,
Leidos, Inc.

Meet Energy Professionals



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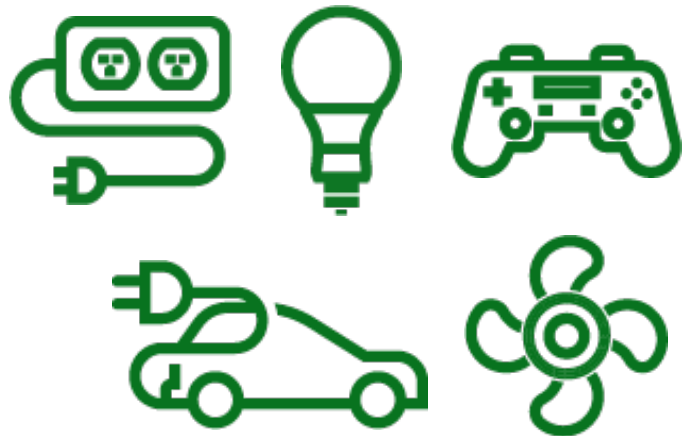
Gretchen Primeau

Diverse Power Solutions

Small Business Energy Advisor



Residential Energy Use in the United States





Coal



Oil



Natural Gas



Nuclear Power



Sun/Solar



Wind



Hydro Power



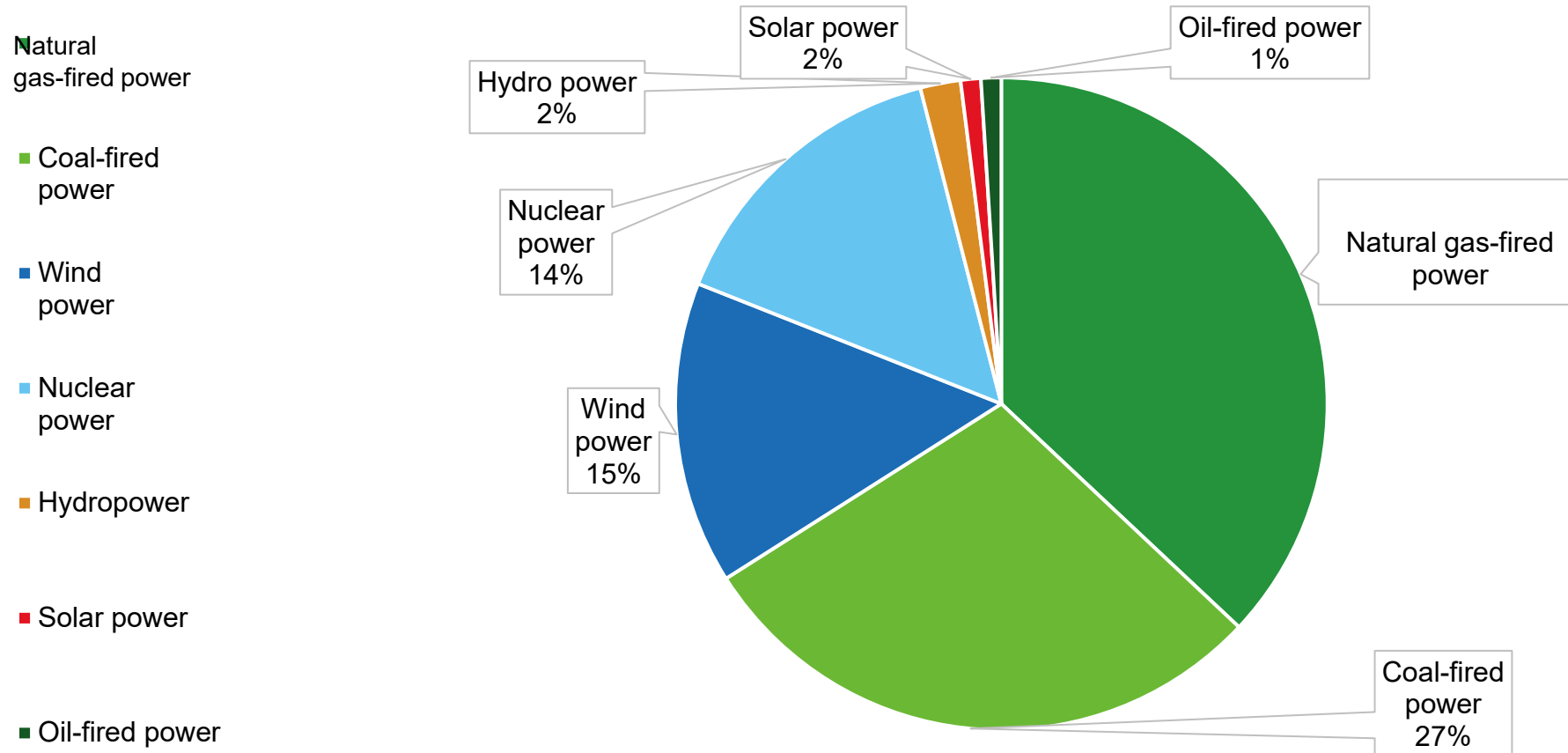
Biomass



Sources of Electricity Supplied to Ameren Illinois Customers



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(Source: [Ameren.com/-/media/illinois-site/files/electricchoice/sources-of-supply/2025/environmental-disclosure-q1-2025.ashx/2024/environmental-disclosure-q1-2024.ashx](https://www.ameren.com/-/media/illinois-site/files/electricchoice/sources-of-supply/2025/environmental-disclosure-q1-2025.ashx/2024/environmental-disclosure-q1-2024.ashx), accessed February 2025)

Energy Efficiency



Why Energy Efficiency Matters

- Health
- Economy
- Community
- Convenience
- Workforce
- Comfort
- Environment



Impacts of Energy Efficiency

- **Health**
 - › Reduces respiratory and cardiovascular system health issues and improves indoor air quality.
- **Economy**
 - › Creates local jobs and supports businesses.
 - › Lowers utility bills and provides financial reliefs.
- **Community**
 - › Engage customers who have not previously benefited from energy efficiency.
- **Environment**
 - › Lowers greenhouse gas emissions and water use.



Energy Efficiency Benefits



What is a benefit to becoming more energy-efficient in your home, office or elsewhere?



We can use...

Technology



Behavior



To reduce energy usage



Technology



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- Devices and appliances such as:
 - › Showerhead
 - › Smart thermostat
 - › Energy Star appliances
 - › LED light bulbs
 - › Smart power strip
 - › Home insulation and weatherization products



Behavior



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- Behavioral changes we can make include:
 - › Turn off the lights or other electronics when not in use.
 - › Keep fridge doors closed when not in use.
 - › Dishwasher and clothes washers should be run with full loads.
 - › Change your furnace filter.
 - › Clean your refrigerator coils.
 - › Lower the temperature of your hot water heater.

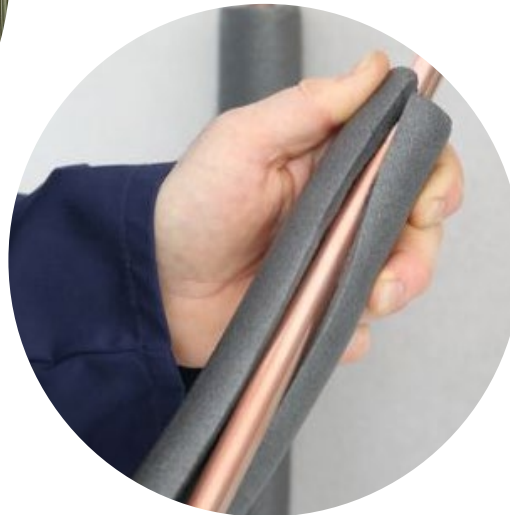
Illinois Trivia!

Nick Holonyak, Jr., the inventor of the first visible-light LED and other illumination innovations, was born in Zeigler, Illinois.



What about comfort and energy efficiency?

Proper Insulation





Water and Energy Connection





Discussion



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Discussion Points:

- Reasons people choose to invest in energy efficiency.
- Why you chose to learn about and pursue a career in energy efficiency this summer.
- A few ways you might try to be more energy-efficient in your everyday lives.



Discussion



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| General Motivations for Energy Efficiency | Your Personal Motivations for Energy Efficiency | Your Personal Motivations for a Career in Energy |
|--|--|---|
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PY2024

MARKET DEVELOPMENT INITIATIVE SUCCESSES



Resource
Grants
48



Internships
Funded
12

Grant
Funding
\$211,800



Energy Efficiency
Kits Distributed
3,000



Scholarships
Awarded
42



Jobseekers
Served
212



Customers
Engaged
103,213



Community-Based
Organization Referrals
750

The Energy Efficiency Industry

Utility Energy Efficiency Programs

Climate and Equitable Jobs Act (CEJA)

- Equitable Workforce and Business Development
- Energy Access and Solar for All
- 100% Renewable Energy by 2050
- Energy Efficiency
- 100% Carbon-Free Power by 2045
- Electrifying Transportation
- Fossil Fuel Workers and Communities



*This language is specific to CEJA, not part of the Ameren Illinois Energy Efficiency Program



Inflation Reduction Act (IRA)



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- Lowers energy costs.
- Increases clean energy production.
- Reduces carbon emissions by nearly 40% by 2030.

Test Your Energy Efficiency IQ!



Why is it important to conserve natural resources and be more energy efficient?



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1. Energy efficiency can result in lowered greenhouse gas emissions and water use.
2. Conserving energy can reduce pollution and improve air quality.
3. Reducing energy usage can result in reduced energy costs.
4. All of the above.



Electricity and natural gas are the most commonly used energy sources in homes.



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1. True
2. False



Which of these is a renewable energy resource?



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1. Uranium
2. Biomass
3. Coal
4. Oil



Which of the following uses the most water in an average home?



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1. Clothes Washing Machine
2. Toilet
3. Garden Hose
4. Shower

Professionalism in the Workplace

Coming Up!

Next Week's Webinar: Future of Energy Efficiency

Wednesday, June 25

Time: 8:30 A.M.-9:30 A.M.

Guest Speakers:

Michael Pittman and Matt Armstrong

Coming Up!

Volunteer Event #1

Date: Friday June 20th, 2025

Time: 9:00 A.M.

Location: Ironwood Golf Course
1901 N Towanda Ave
Normal, IL 61761

Questions?