

**The Livestream Power Dialog
will begin at**

5:00PM CST

Thank you for joining us!

SOLVE **CLIMATE** **BY 2030**

**CLIMATE SOLUTIONS FOR MISSOURI - A NATIONAL DIGITAL TEACH-IN
TUESDAY, APRIL 7, 2020, 5:00-6:00PM CT**

Looking for support with online teaching - Assign this webinar (live or recorded) and use the multi-disciplinary guides on our website to follow-up with your HS or collegiate level class.

Livestream Power Dialog

5:00 - 5:10 pm

Welcome to Power Dialogue - Solve Climate by 2030

5:10 - 5:45 pm

Climate Solutions Panel - Three Missouri Climate Leaders will discuss solutions to move us towards Solving Climate by 2030

5:45 - 6:00 pm

Panel Discussion

Moderator

Phil Valko
Assistant Vice-Chancellor for Sustainability
Washington University

Panelists

John Hickey
Missouri Chapter Director
Sierra Club

Andrew Linhares
Regional Director & Senior Counsel
Renew Missouri

Gwen Mizell
VP of Sustainability and Electrification
Ameren



Washington University in St. Louis
www.climatechange.wustl.edu

UTILITIES AND CLEAN ENERGY POLICY IN MISSOURI

Renew Missouri: Statewide and local advocates for clean energy policy, based in Columbia with offices in St. Louis and Kansas City.



Topics to Cover:

- How is energy policy set up in Missouri?
- What is the state of solar, wind, and energy efficiency in Missouri?
- Where are we going?



Andrew Linhares

Renew Missouri

Regional Director & Senior Counsel

Andrew@renewmo.org

Utility regulation in Missouri

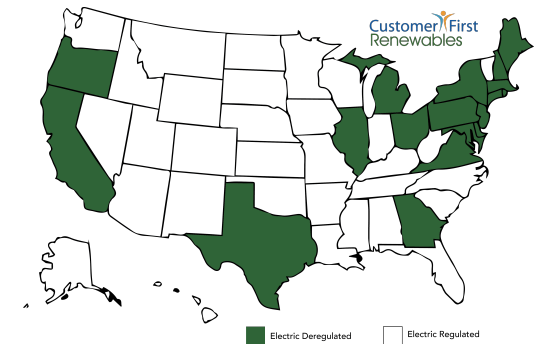


The Missouri Public Service Commission (PSC) (1913)

- Regulates electric, natural gas, water, and sewer utilities (also some jurisdiction over telecommunications companies, manufactured and modular homes)
- 5 Commissioners appointed by Governor, confirmed by Senate



- Powers given by the Legislature. Duty to “ensure that all Missourians receive safe, reliable utility services at just, reasonable, and affordable rates.”
- Missouri is a “Regulated State” (like MI, MN, WI, IA, CO)
- E.g. Ameren is a “monopoly” utility
 - Has a PSC-designated geographic territory (lack of choice)
 - Earns a specified rate of return on all investments
 - Accountable to both the PSC and its shareholders



CLEAN ENERGY IN MISSOURI

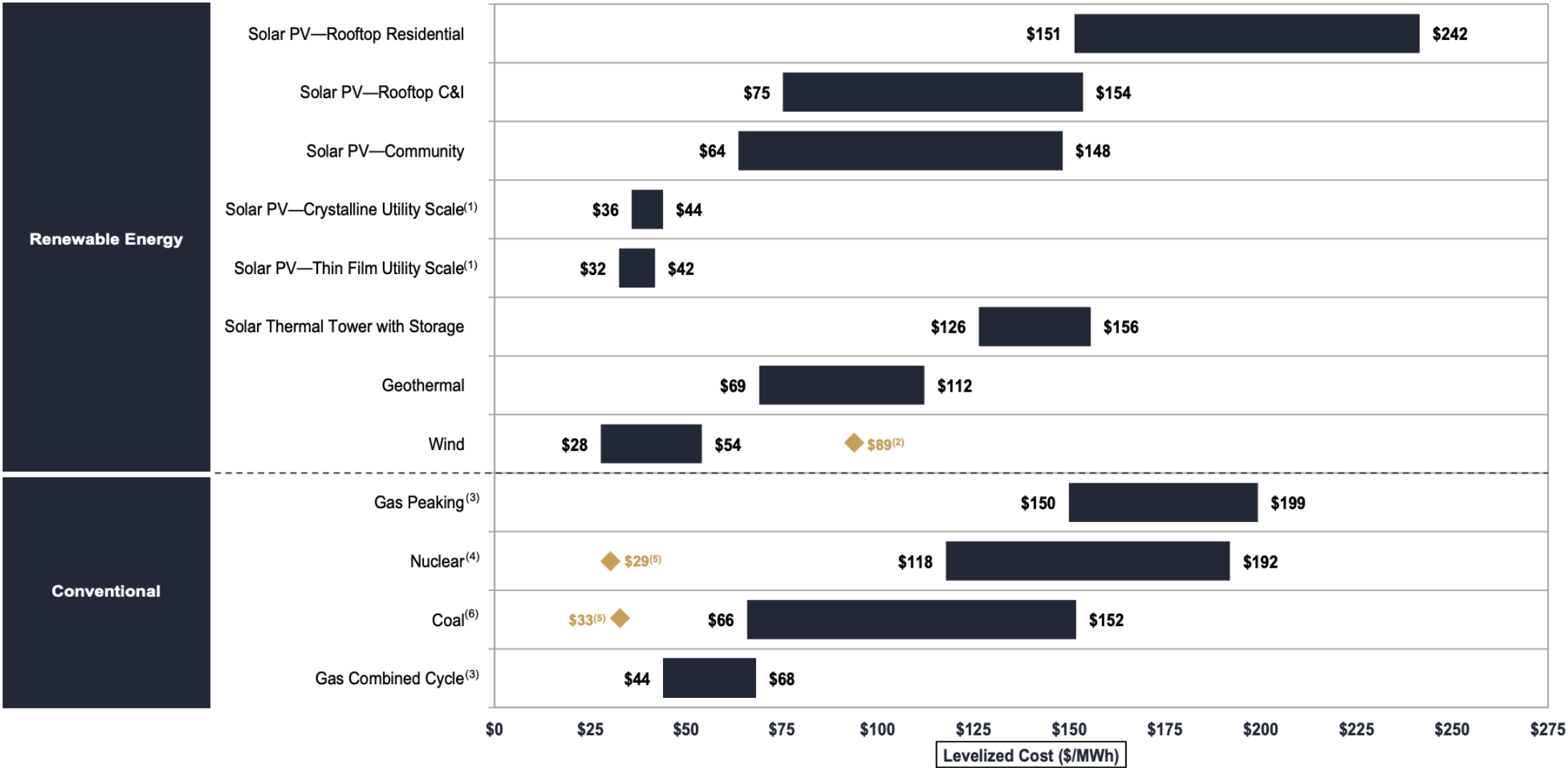
- Renewable Energy: Missouri is between 10-15%
 - Ranked 43rd / 50 states, but improving
 - Ranked 32nd in customer choice, while neighboring states are much higher (IA = #1, IL = #2, TX = #5)
- Energy Efficiency
 - Ranked 30th / 50 states

Source	Attributes
Energy Efficiency	Using less power for the same end use.
	Utilities can encourage through programs offering rebates/incentives.
	Cheapest resource available to invest in for utilities and customers.
Wind Energy	Largest source of renewable energy in Missouri.
	Cheapest source of new electricity generation.
	Northwest Missouri, Kansas, and Iowa are prime locations for wind.
Solar Energy	Fastest-growing source of renewable energy in the world.
	Can be located at point of use, creating ancillary benefits to the grid.
Energy Storage	Can help solve problem of intermittency.
	Can reduce need for peaker plants and utilize all power produced onsite.



Levelized Cost of Energy Comparison—Unsubsidized Analysis

Selected renewable energy generation technologies are cost-competitive with conventional generation technologies under certain circumstances




Source: Lazard estimates.

WHERE DO WE GO FROM HERE?

Policy Goals in Missouri

- *Remove Barriers to Access Renewables:*
 - Raise net metering caps and allow for energy contracts (PPAs) between renewable developers and large customers.
- *Take Advantage of Existing Utility Programs:*
 - Residential and commercial customers can make huge investments in EE by using rebates and incentives; large customers can purchase wind energy from Ameren's "Renewable Choice" program; residential and small business customers can get half their electricity from local solar through Ameren's "Community Solar" program.
- *Commit to 100% Clean Energy:*
 - Our existing RES law (15% by 2021) is out of date, and a new ambitious goal is needed to focus development for the future and chart a clear path to a clean energy future.

A wide-angle photograph of a large solar farm at sunset. Rows of solar panels stretch into the distance, reflecting the golden light of the setting sun. A person in a white hard hat and dark clothing stands in the gravel aisle between the panel rows, looking towards the horizon. The background shows a line of trees and distant power lines under a cloudy sky.

Sustainability

Sustainability

Gwen Mizell

Vice President

Sustainability and
Electrification

Ameren Corporation



Sustainability

*“Meeting the needs of the present,
without compromising the ability of future generations to meet theirs”.*



Environmental
Conservation &
protection of the natural
environment



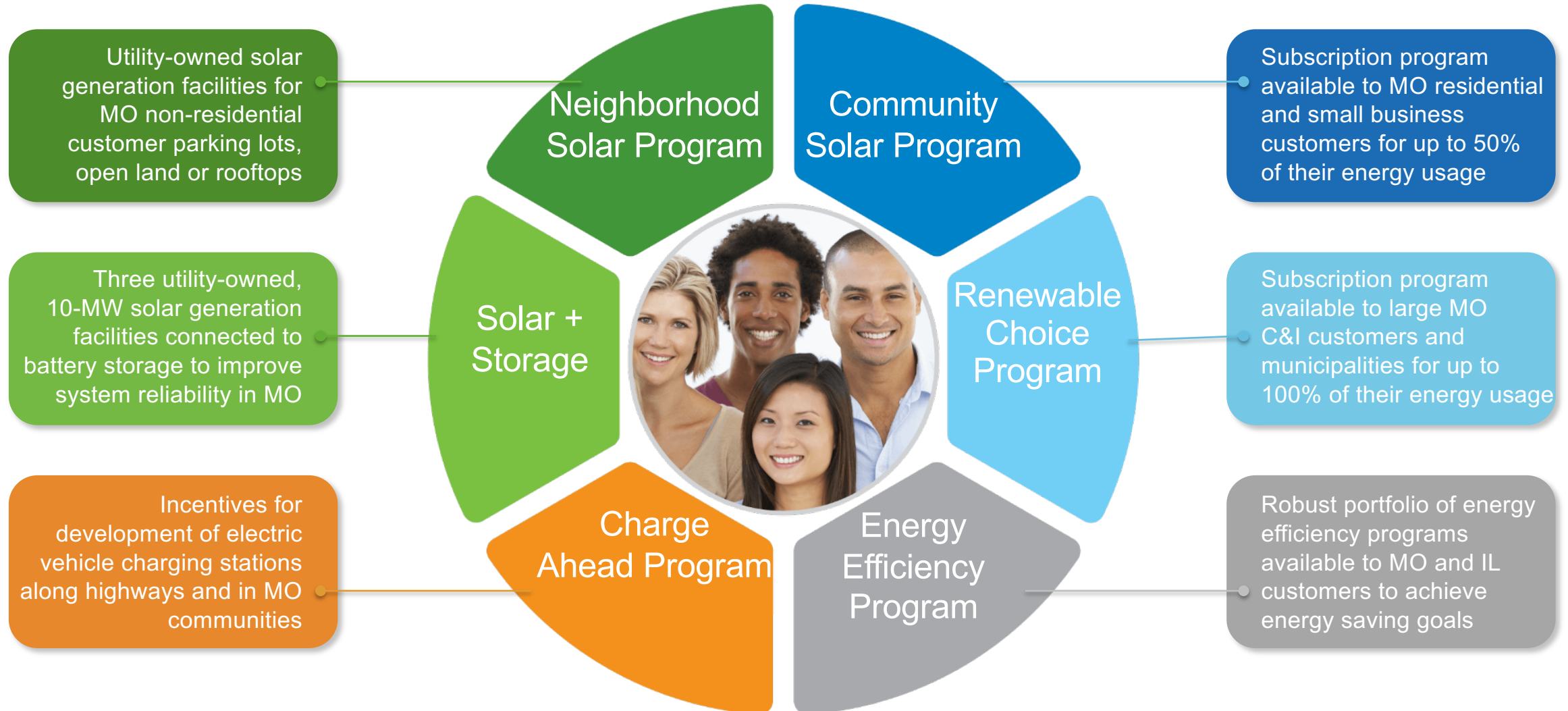
Social
Relationships with
employees, suppliers, &
communities



Governance
Standards for company
leadership, risk controls,
& shareholder rights

Sustainability

Innovative Programs to Meet Customer Needs and Rising Expectations



SWITCH ENERGY ALLIANCE

<https://switchon.org/>
SWITCH makes learning
about energy systems
fun and engaging.

The screenshot displays the Switch Energy Alliance website. At the top, the browser address bar shows <https://switchon.org>. The website header includes the Switch Energy Alliance logo, a search bar, and a user profile for Theresa Coble. A left-hand navigation menu lists: Home, Films, Video Library, Education Resources, Presentations, News, and About SEA. The main content area features a large hero section for the 'Switch' award-winning documentary, which explores global energy sources from coal to solar. To the right of the hero section is a 'Featured News' box announcing the alliance's new museum film. Below the hero section, there are two columns of content: 'Featured Resources' with links to Switch Energy Lab, Energy Primers, Energy Site Visits, Energy Experts, Energy Topics, and Learning Modules; and 'Latest News' with articles about a screening at Texas Tech University, an energy case competition, Scott Tinker's speech to AP teachers, and a Rotary Club event.

SWITCH ENERGY ALLIANCE

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News
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Switch
AWARD WINNING DOCUMENTARY
Switch explores the world's leading energy sites, from coal to solar, oil to biofuels, and gets straight answers from the international leaders driving energy today.
Challenged Switch >

Featured News
Switch Energy Alliance Begins Shooting Museum Film
SEA is in the production stage of a new short film that demonstrates the importance of energy in our lives.
[Read More](#)

Featured Resources

- Switch Energy Lab
- Energy Primers
- Energy Site Visits
- Energy Experts
- Energy Topics
- Learning Modules

Latest News

- Texas Tech University Holds Switch On Screening**
The Texas Tech University School of Law's Energy Law Program hosted a screening of Switch Energy...
[Read More](#)
- Switch Energy Case Competition**
Switch Energy Alliance is reaching out to universities to launch annual energy case competitions.
[Read More](#)
- Scott Tinker Speaks Before 300 AP Environmental Science Teachers**
SEA's Chairman, Scott Tinker, spoke to over 300 Advanced Placement Environmental Science high school teachers, emphasizing...
[Read More](#)
- This Week's Program**
Derek Tinker and Bill Hays Speak at Austin Rotary Club About Pursuing a Smart Energy Future
Derek Tinker and Bill Hays, SEA employees, spoke at the Austin Rotary Club about pursuing a...
[Read More](#)