



# 2024 Summer Reliability Forum

May 9, 2024



## Presenters



**Richard Leger**  
Senior Vice President,  
Indiana Electric



**Natalie Hedde**  
Vice President,  
Strategic Business Growth  
and Engagement



**Shane Bradford**  
Vice President,  
Power Generation  
Operations



**Laurie Thornton**  
Director,  
Public Policy and  
Government/Regulatory Affairs



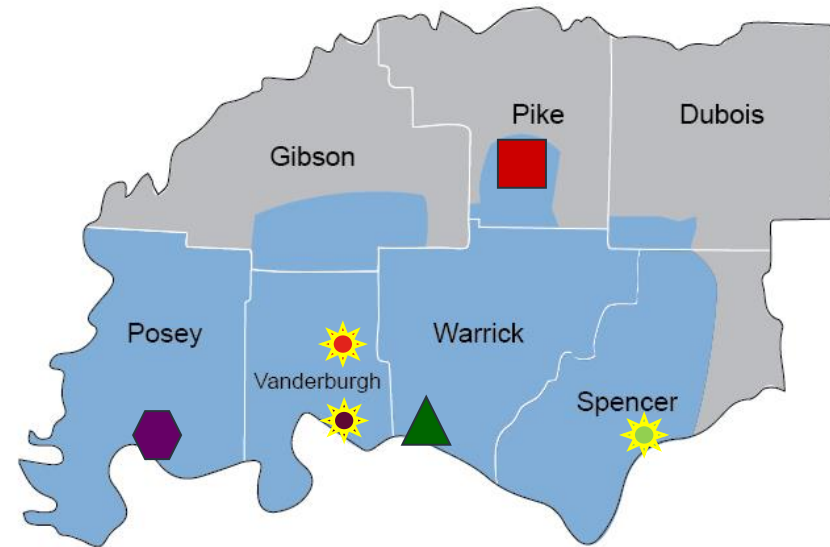
**Amy Folz**  
Director,  
Indiana High Voltage  
Operations







## Executive Summary

- ✓ **CenterPoint Energy is prepared to meet the energy needs of our customers this summer.**
- ✓ **As demonstrated by a recent weather event, we are equipped to maintain reliability even in extraordinary circumstances.**
- ✓ **Customer support and outreach are fundamental to our business.**

# CenterPoint Energy Indiana South's Electric Footprint

- **Customers** **~150,000**
- **2023 Retail Sales** **4,394 (GWh)**
  - Residential 1,336 GWh
  - Commercial 1,116 GWh
  - Industrial 1,922 GWh
  - Other 20 GWh
- **Transmission System**
  - 1,004 miles of transmission lines
  - 33 transmission substations
- **Distribution System**
  - More than 4,362 circuit miles of distribution lines
  - 29% of distribution underground
  - 78 distribution substations



- Power plants<sup>[1]</sup>
-  AB Brown
  -  FB Culley
  -  Blackfoot Clean Energy Plant
  -  Troy Solar
  -  Oakhill Solar
  -  Volkman Rd Solar

<sup>[1]</sup>Fowler Ridge & Benton County Wind Farms not shown



# April 2, 2024 – Severe Thunderstorms and Tornadoes

- Multiple lines of thunderstorms formed from Illinois all the way to West Virginia, hitting southwest Indiana between 3 and 7 AM.
- Officially deemed a derecho, with widespread significant wind damage.
- Dozens of circulations within the storm led to 19 tornadoes across our forecast area.
  - 7 EF-2's, 11 EF-1's, and 1 EF-0 tornadoes.
- This was the most tornadoes in a single event across our Quad-State region since October 2013.

## NWS releases paths for 4 tornadoes that hit Evansville area

**Ryan Reynolds**  
Evansville Courier & Press  
JSA TODAY NETWORK

The National Weather Service is still assessing damage from the Tuesday storms, but what happened is becoming clearer.

So far, the agency has confirmed 12 tornadoes in the Tri-State – five in Southern Illinois, six in Southwestern Indiana and one in Western Kentucky. That number could grow as meteorologists assess whether damage was caused by straight-line winds or tornadoes.

No injuries or deaths were reported.

Here's a look at where four of the tornadoes hit close to the Evansville area. The National Weather Service on Friday was still assessing damage and tracks for at least two other tornadoes.

**Tornado 1 - Maunie, Illinois, to south of Poseyville, Indiana**

This tornado started two miles north/northeast of Maunie, Illinois, and lifted seven miles south of Poseyville, Indiana.

The weather service says the tornado crossed through Harmonie State Park and eventually merged with another tornado southwest of Blairsville, Indiana.

It was on the ground from 5:31 a.m. until 5:43 a.m., and was an EF-2 tornado with peak winds of 115 mph. At its max, it was 250 yards wide. It was on the ground for 12.4 miles.

**Tornado 2 - New Harmony, Indiana, to near Parker Settlement**

This tornado started two miles south/southeast of New Harmony and lifted three miles southeast of Blairsville. The first tornado merged with it southwest of Blairsville.

It was on the ground from 5:37 a.m. to 5:48 a.m., and was an EF-2 tornado with peak winds of 115 mph. It was 250 yards wide and its largest size and was on the ground for 11.3 miles.

**Tornado 3 - Vanderburgh County and Warrick County in Indiana**

The third tornado started two miles south of Haubstadt, Indiana, and lifted two miles south of Elberfeld, Indiana. It merged with another tornado that continued for a short while south of Elberfeld.

It was on the ground from 5:54 a.m. to 6:01 a.m., and was an EF-1 tornado with peak winds of 100 mph. At its largest, the tornado was 200 yards wide and

**Tornado 4 - Vanderburgh County and Warrick County in Indiana**

The fourth tornado started three miles southeast of Elberfeld, Indiana and lifted three miles south of Elberfeld, Indiana.

It was on the ground from 6:01 a.m. to 6:08 a.m., and was an EF-1 tornado with peak winds of 100 mph. At its largest, the tornado was 200 yards wide and

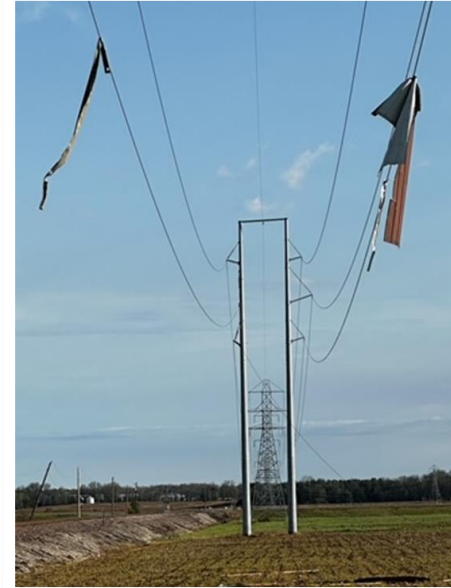


**Storm damage in northern Vanderburgh County on April 2.**  
MACABE BROWN / COURIER & PRESS



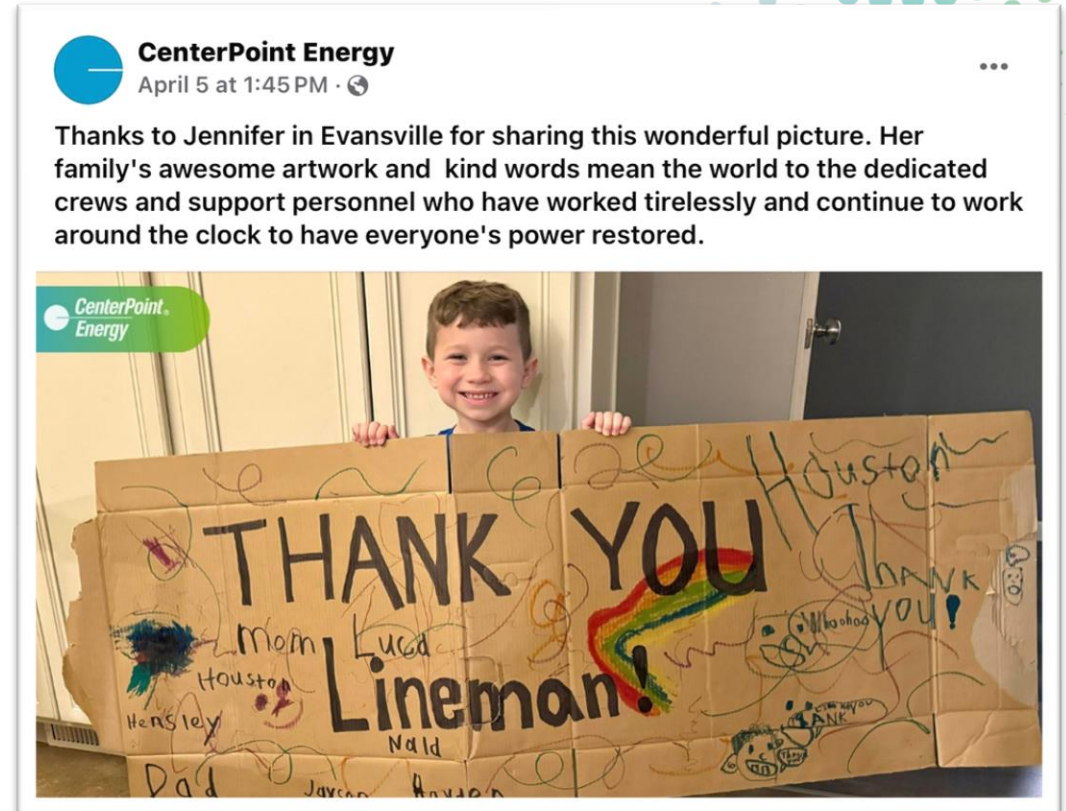
# Impact to CenterPoint Energy Indiana South

- 7 National Weather Service confirmed tornadoes within territory
- 1500+ tickets
  - 430+ trouble tickets
- Replaced
  - ~250 poles
  - ~90 transformers
- Total of 26,500+ customers out
- Restored 96% within 66 hours; 99% in 90 hours
- Last customer restored on 4/6



## Customer Feedback

- "I have dependable power. Any outages are quickly attended to."
- "I am out daily driving all over Evansville for work. I've seen so many out working hard in the cold, wind and rain at all hours. We very much appreciate all the hard work to get everything up and running. Thanks to every single one of you. Stay safe!"
- "Hats off! Fantastic Job with less than favorable conditions!!"





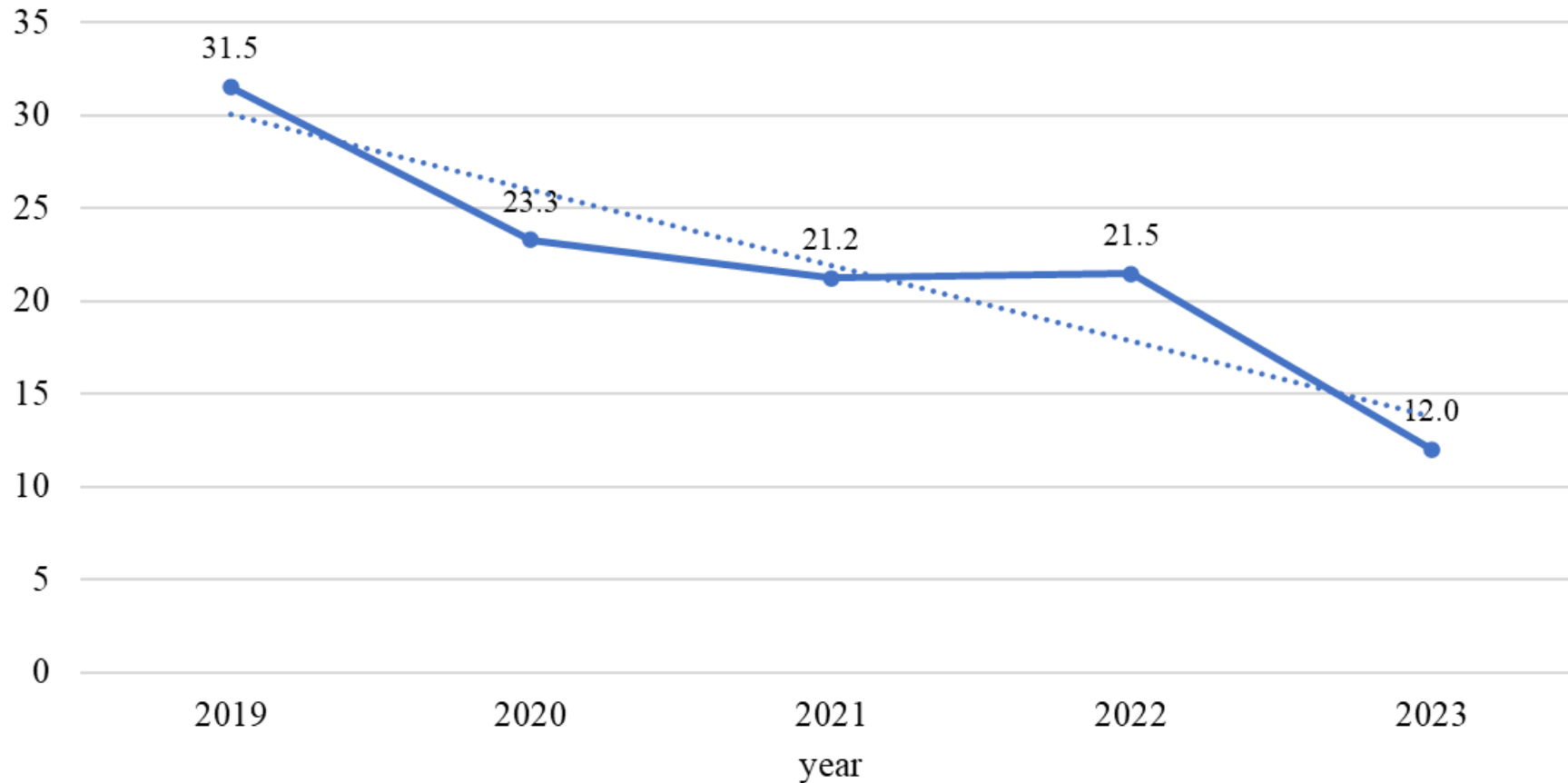
# Commitment to Customer Reliability – Notable Reliability Initiatives





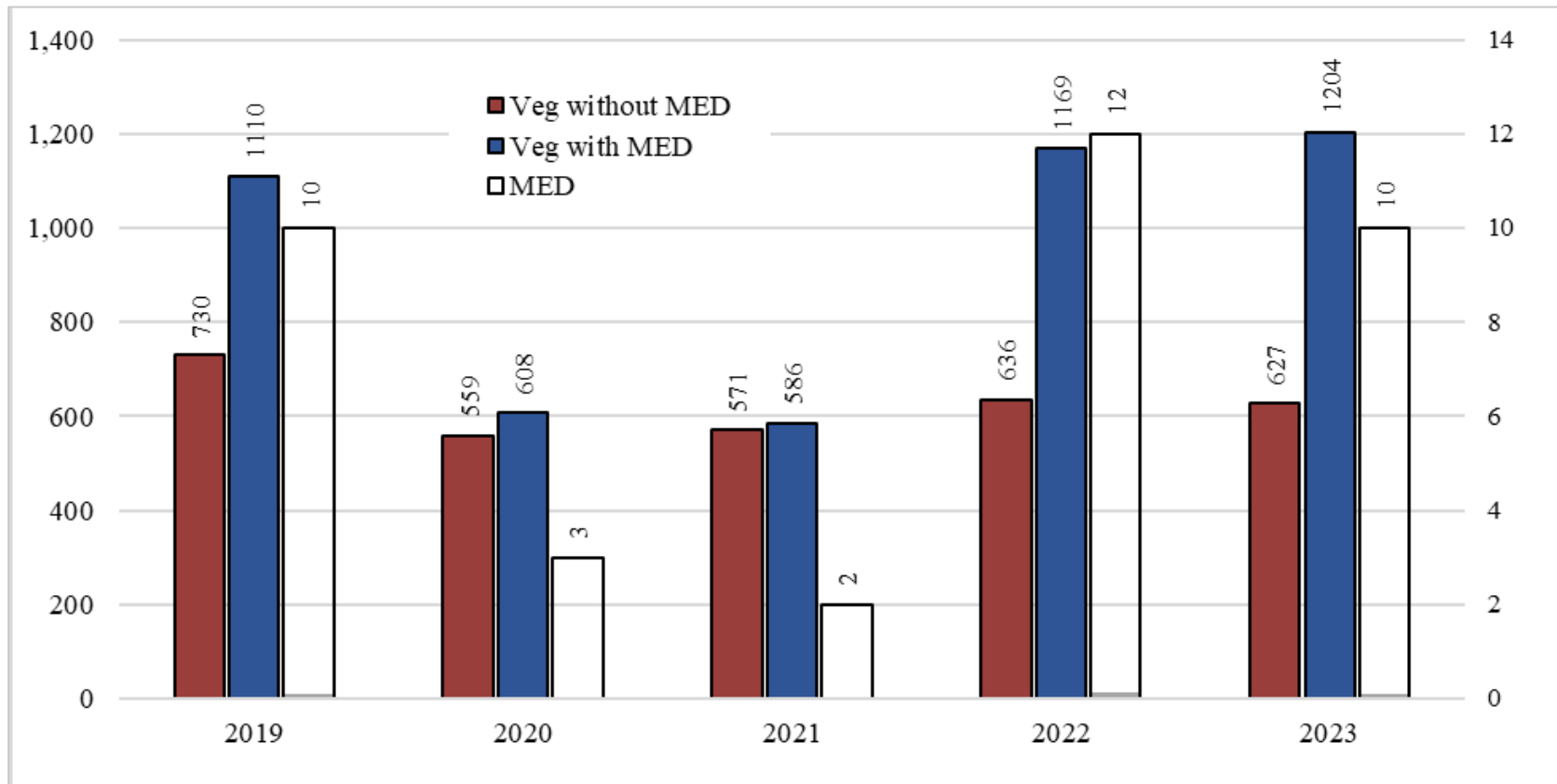
# Five-Year Equipment Failure Outages 2019-2023

Annual SAIDI Minutes from Equipment Failure  
excluding MEDs

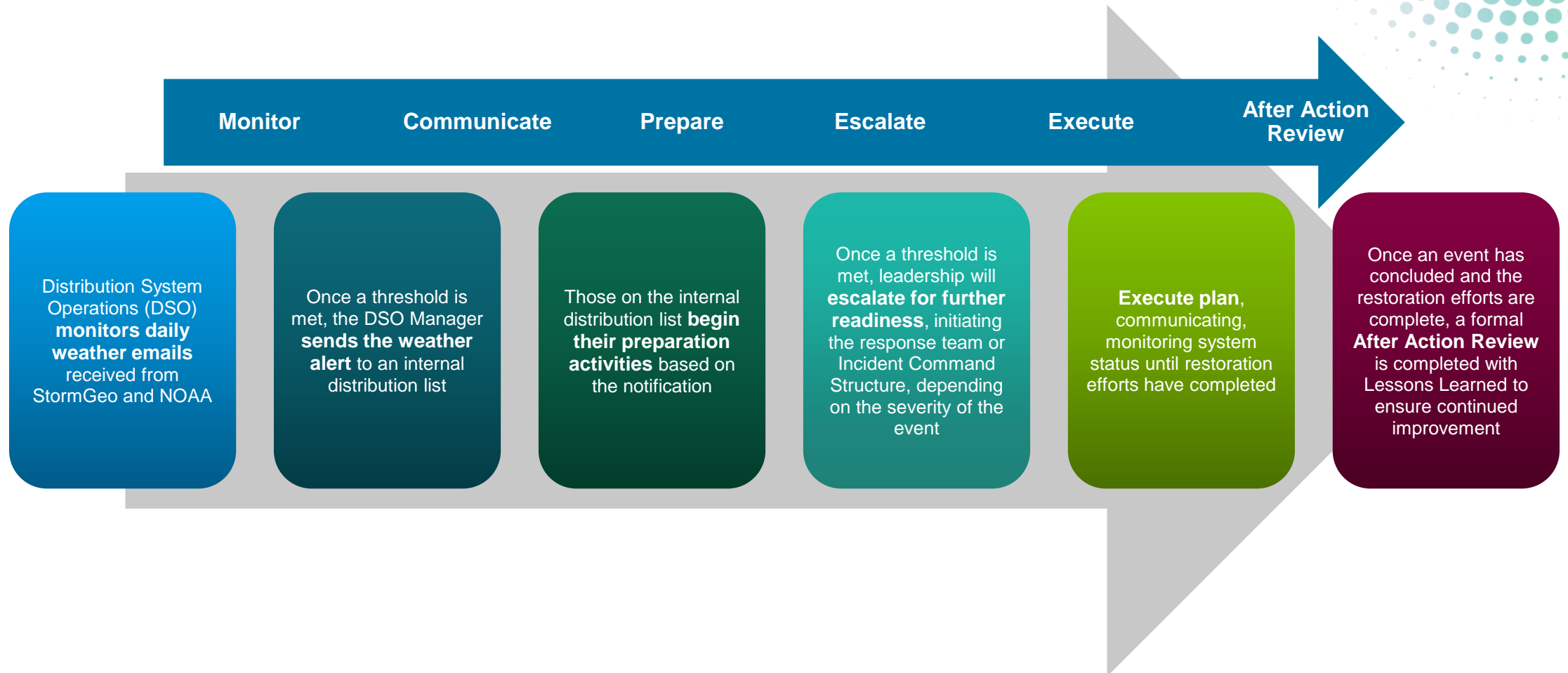


# Vegetation Outages

- Vegetation outages continue to correlate with major events
- With the exception of 2019, vegetation outages (excluding MEDs) have been consistent staying within 7% of the 5-year average.



# Timeline For Weather-Related Events



# Leveraging Technology During Events

- Outage Management System leverages technology to streamline outage investigations
  - Near real-time information
  - Redirect trouble crews and optimize resources
  - Reduce impact, duration and cost of major events

Method	Integration Value
AMI	<ul style="list-style-type: none"> <li>• Near real time power outage notification</li> <li>• Meter ping functionality while investigating single customer outages to verify outage status</li> </ul>
SCADA	<ul style="list-style-type: none"> <li>• Breaker status, voltage and amp data available by transformer and circuit</li> </ul>
DA	<ul style="list-style-type: none"> <li>• Automatically restore sections of circuits</li> <li>• Provide enhanced situational awareness of circuits outside of a restoration event</li> <li>• Remote control capabilities enable distribution operator to open/close devices remotely</li> </ul>
Customer	<ul style="list-style-type: none"> <li>• Reported information integrated to provide additional support when troubleshooting</li> </ul>



# Summer Preparedness Activities



## Distribution

- Inspect capacitor banks
- Ensure maximum redundancy



## Transmission

- Ensure maximum redundancy



## Substation

- Complete inspection work orders
- Gather load data during peak months

# Supply Chain Concerns

**Goal: To ensure appropriate supply and maintain reasonable costs**

- **Long lead time**

- **Service Transformers**

- Procurement ensuring we have domestic and internationally sourced transformers
- Operations working with domestic vendors on the potential for ad hoc purchases
- Storeroom working with existing vendor to ship units for our immediate needs
- DOE transformer efficiency requirements may present additional challenges

- **Substation Equipment**

- Lead times increasing on circuit breakers and power transformers

- **High demand, short supply**

- **Wood Poles**

- Procurement and Operations working to diversify vendors
- Revising material specs to allow the use of different species of poles and pole treatments across both CEIS and CenterPoint Energy Houston Electric
- Investigating use of non-wood distribution pole materials (fiberglass, steel, ductile iron, etc.)

# RTO Resource Adequacy, Markets, Operations, and Transmission Planning

## Resource Adequacy

- Evaluating our resources to ensure our capacity values are aligned with our planning reserve (reliability) requirements during MISO's 3-year phase in approach and full implementation in planning year 28/29.

## FERC Order 2222

- Following the stakeholder process closely as MISO develops tariffs and practices to facilitate DER aggregation and market access.

## FERC Order 881

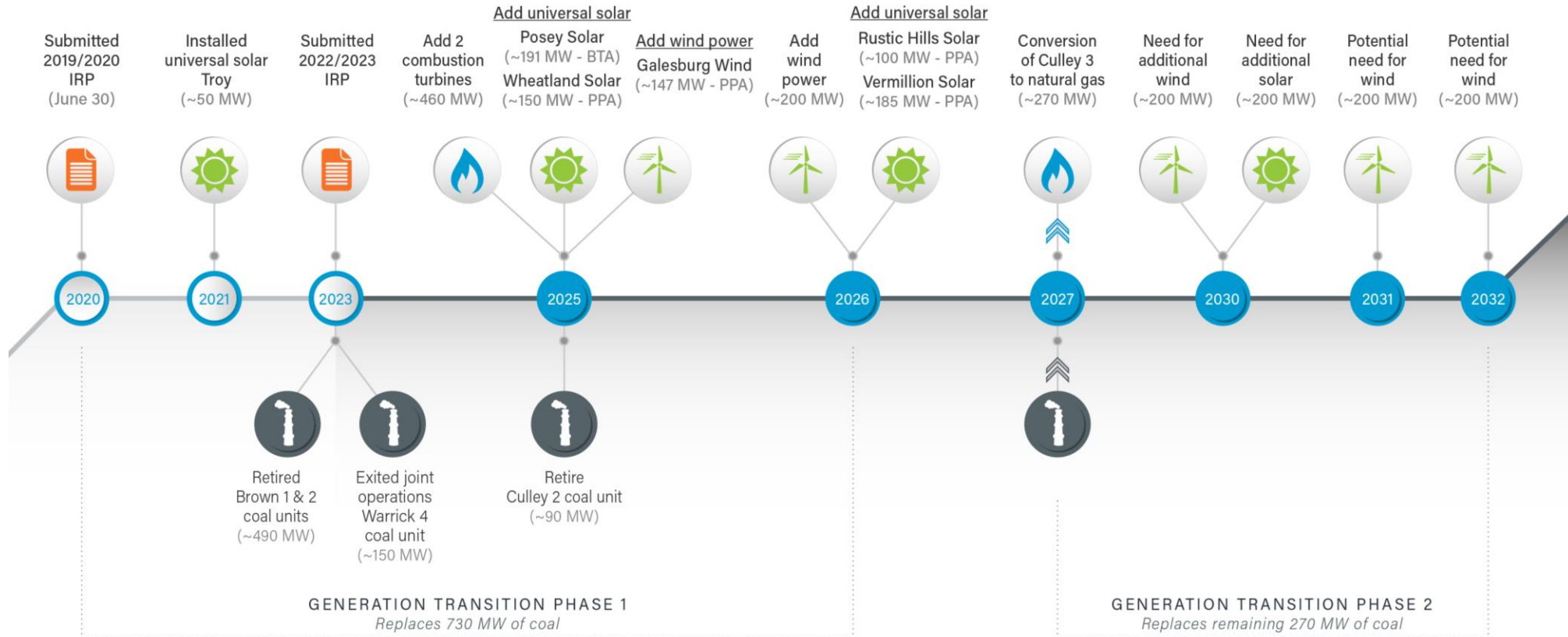
- Following the MISO stakeholder process closely and working toward program development, vendor management, and reporting capabilities ahead of the July 2025 implementation date.

## Transmission Planning

- Continuing to follow Tranche 2 developments and will likely exercise our ROFR rights to construct projects or alternative solutions that ultimately make it into the final portfolio with potential start dates as early as 2025.

# Indiana Electric Generation Transition: Roadmap

CEI South's generation resource diversification accounts for intermittent resource variability to meet customer needs



IRP = Integrated Resource Plan  
MW = Megawatt

BTA = Build Transfer Agreement/Utility Ownership  
PPA = Power Purchase Agreement



# Generation Fleet Overview

## Installed Capacity

- **Coal Units – 392 MW**
  - FB Culley Units 2 and 3 – 360 MW
  - Ohio Valley Electric Cooperative (OVEC) – 32 MW
- **Gas Peaking Units – 160 MW**
  - AB Brown Units 3 and 4 – 160 MW
- **Renewables – 137 MW**
  - Troy Solar – 50 MW
  - Volkman Road Solar – 2 MW
    - Includes 1 MW/4 MWhr Battery
  - Evansville Urban Solar – 2 MW
  - Blackfoot Landfill Gas – 3 MW
  - Fowler Ridge Wind PPA – 50 MW
  - Benton County Wind PPA – 30 MW



# Generation – Summer Reliability Preparedness

## Preparing units for summer reliability

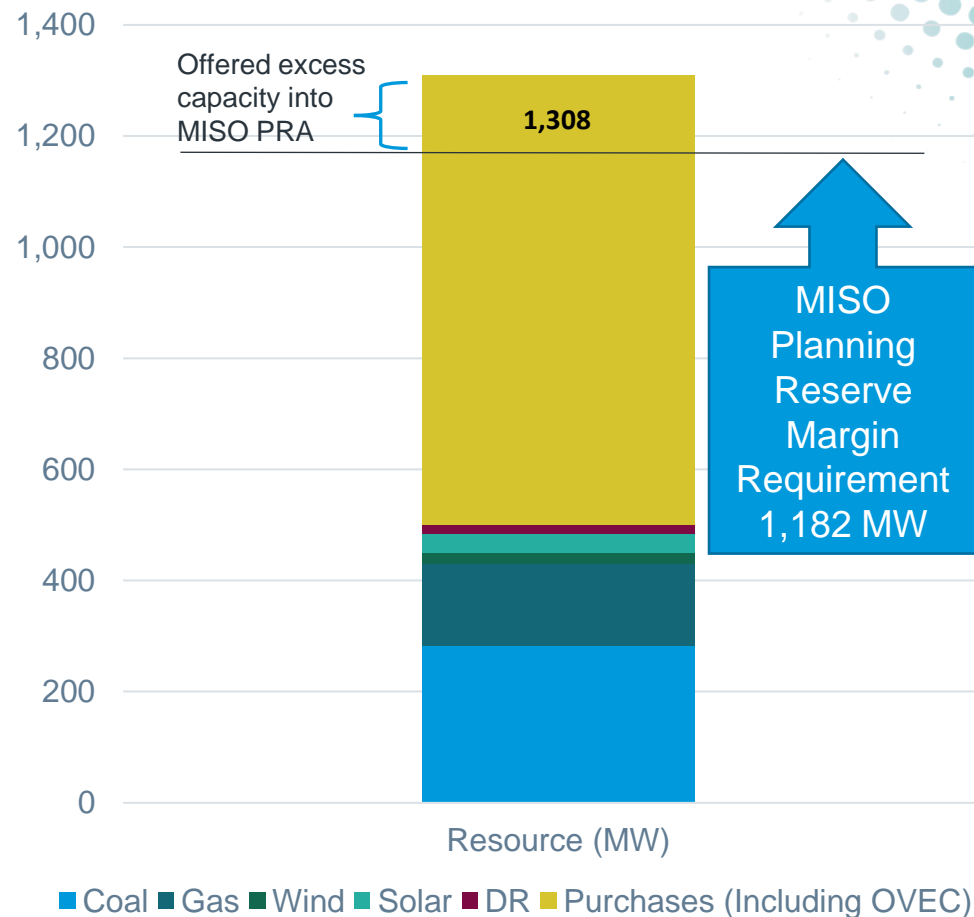
- Year-round preventive and predictive maintenance program
- Proactively monitoring equipment trends
- Maintenance outages have been completed in preparation for summer
  - FBC Units 2 & 3 maintenance outage completed in April
  - ABB Unit 3 SCGT overhaul completed in early-May
- Ensure chemicals and reagents inventory is adequate and deliveries are scheduled to maintain environmental compliance
- Extreme Summer Weather (MISO emergency conditions) – “hands off” approach
  - Abnormally dry condition does not have any water-related or environmental impacts to CEI South’s generation resources

## Fuel supply

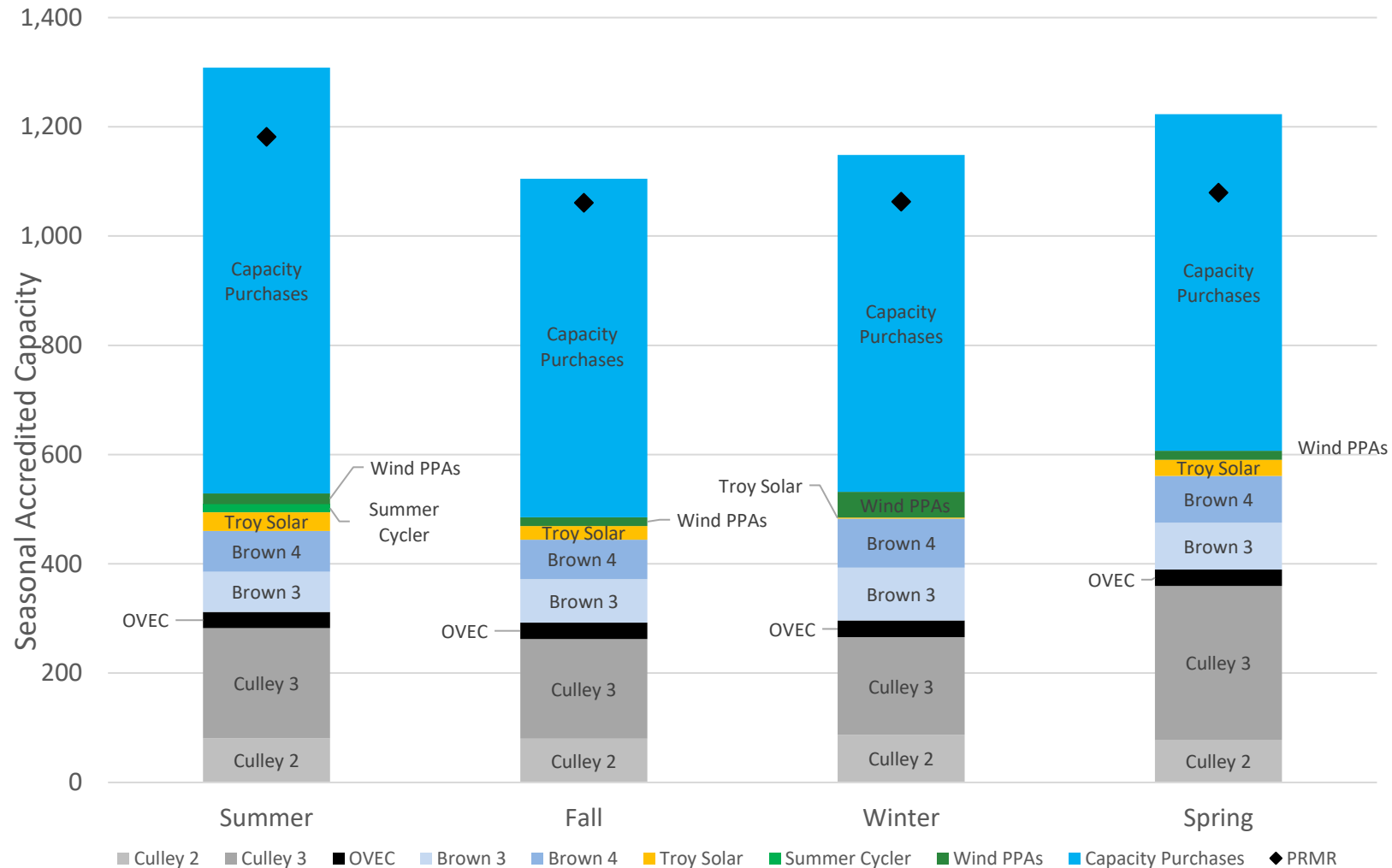
- Coal pile inventory at CEI South’s generating station has 90 days of operation.
- Coal supplier is operating with no restrictions.
- Coal transportation contracts are in place.

# CEI South Accredited Capacity Resources for 2024 – 2025 Summer Season

- **MISO Accredited Capacity: 1,308 MW**
- **CEI South Accredited Capacity: 465 MW**
  - Coal – 282 MW
  - Natural Gas – 149 MW
  - Troy Solar – 34 MW
- **Other Accredited Capacity: 843 MW**
  - Wind Purchases – 20 MW
  - OVEC – 29 MW
  - Summer Cycler – 15 MW
  - Bilateral Capacity Purchases – 779 MW
- **Behind the Meter Capacity: 5 MW**
  - Blackfoot Renewable Gas – 3 MW
  - Volkman Road Solar (BTM) – 1 MW
  - Evansville Urban Solar (BTM) – 1 MW



# CEI South's 2024-2025 Seasonal Requirements and Resources





# Recruitment, Engagement, and Retention

- Actively engaged with college and high school career fairs
- Building relationships with Higher Education
  - Ivy Tech, Madisonville Community College, & Frontier Community College
- Partnering with Ivy Tech Achieve Your Degree (AYD) program
- CNP Foundation supports various workforce training or awareness organization or programs
  - NexTech
  - Center for Energy Workforce Development (CEWD)
- Employee Resource Groups (ERG) to foster an inclusive workplace



# CenterPoint 2024 Energy Efficiency Programs

## Residential Programs

- \*Residential Prescriptive
- \*Residential Marketplace
- \*Residential Midstream
- Community Connections
- Behavioral Savings
- Bring Your Own Thermostat
- Smart Cycle
- \*New Construction

\*Integrated CenterPoint Gas/Electric Program


## Commercial & Industrial (C&I) Programs

- \*C&I Prescriptive
- \*C&I Midstream
- \*C&I Custom
- \*Small Business Energy Solutions
- Building Optimization

## CenterPoint annual energy savings

- 2022 (actual gross) – **33,315 MWh**
- 2023 (est. gross) – **40,325 MWh**
- 2024 (operating plan gross) – **41,618 MWh**

CenterPoint Electric DSM Program	
Program Year	% Goal Achieved
2017 (Evaluated)	111%
2018 (Evaluated)	120%
2019 (Evaluated)	115%
2020 (Evaluated)	115%
2021 (Evaluated)	90%
2022 (Evaluated)	90%
2023 (Projected)	93%
2024 (Projected)	86%



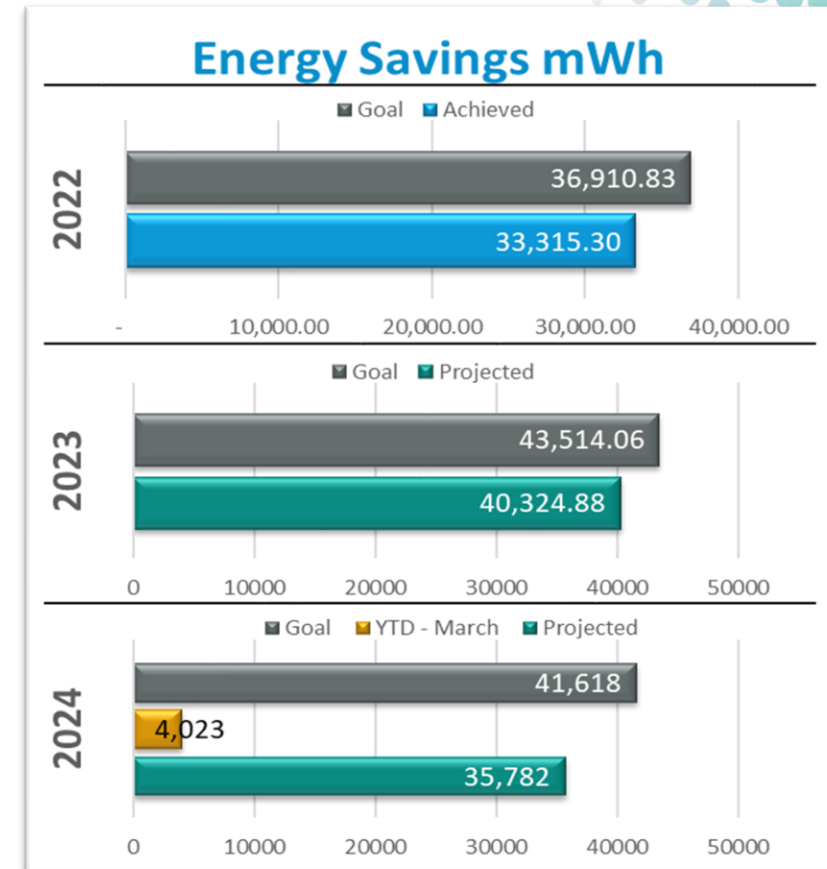
# CenterPoint 2022 & 2023/2024 Energy Efficiency Programs

## • 2022 Programs

- Residential Prescriptive, Residential Midstream, and C&I Prescriptive were the top performing programs
- Achieved 90% of 2022 savings goal
  - Residential Programs achieved 81%
  - C&I Program achieved 101%
- Savings represents 1.00% of participating customer sales

## • 2023/2024 Programs

- Residential Midstream, Residential Behavioral and C&I Prescriptive are projected to provide the bulk of 2023 savings
- Currently projected to meet 86% of 2024 savings target. Projected 35,782 MWh (gross), 2024 Plan target of 41,518 MWh (gross)
  - Savings goal represents 1.25% of participating customer sales.



# Increased Customer Messaging

CNP launched a comprehensive campaign (**email, digital ads, social media, streaming TV**) to illustrate the infrastructure improvements, community support and economic growth CenterPoint has contributed in SW Indiana.

## Building a smart energy future®

CenterPoint Energy has emerged as a beacon of positive change in our community. The transformation did not happen overnight; our journey stands as a testament to the profound effect a forward-thinking energy company can have on the community and the environment. With CenterPoint Energy, powering your life means more than just turning on the lights—it means illuminating a path to a brighter, more efficient tomorrow.

**Engaging with the community**

- \$6.5M+** Invested in housing and local universities
- \$400,000+** Dollars given to Dolly Parton's Imagination Library
- \$1M+** Invested into the programming and renovation of the YMCA Caldwell Center
- \$26.2M+** Dollars given to non-profit organizations through the CenterPoint Energy Foundation

**Sustainably upgrading our system**

- 100,000+** Homes annually
- 159,000** Electric smart meters installed
- 99,824** Gas smart meters installed
- 7,000** Miles of electric distribution lines
- 656,913** Cars off the road

**Committed to a cleaner energy future**

- 35,495** Renewable hours
- 4.4M+** Dollars saved in southwestern Indiana
- \$53M** Over the last 10 years
- \$351M+** In low-income home energy efficiency programs
- 8,482** Homes weatherized
- 349,526** Hours of energy efficiency training

**Helping you save money and energy**

CenterPoint provides a range of rebates, incentives and programs making it easier for our customers to adopt sustainable practices while saving money.

**Job growth**

- \$350,000** In support of the Evansville Regional Sports Commission
- Evansville Regional Airport** Upgrades serve growth to the Evansville Region
- Toyota** Infrastructure enhancements and support increased electric

CenterPoint Energy

CenterPointEnergy.com/SmartEnergyFuture

## Building a smart energy future®

We are not just a provider of energy; we are a partner in helping our shared communities thrive.

CenterPoint Energy recognizes that our success—and the success of our neighbors—is linked to the vibrancy of our communities. Through the [CenterPoint Energy Foundation](#), we base our charitable giving on two pillars—community vitality and education—to support programs that not only improve the quality of life for our neighbors but also promote inclusion to help our communities thrive.

Through the Foundation, in a little over a decade we have given more than **\$26.2M** to southwestern Indiana to align our goals with the needs of your community and the environment.

- Invested in **400+** non-profit organizations
- \$6.5M** invested in housing and local universities
- \$400,000+** given to Dolly Parton's Imagination Library
- \$1M+** invested into programming and renovation of the YMCA Caldwell Center

[Learn more](#)

With CenterPoint Energy, powering your life means more than just turning on the lights—

## Building a smart energy future®

Transitioning our communities to a cleaner energy future.

CenterPoint Energy has emerged as a beacon of positive change in our community. This transformation did not happen overnight; our journey stands as a testament to the profound effect a forward-thinking energy company can have on the community and the environment.

We continue to improve our energy delivery infrastructure to help with our transition to a cleaner energy future. In a little over a decade, we have:

- Reduced CO2 emissions equivalent to taking **656,913** cars off the road.
- Generated enough solar energy to power **1,000+** homes annually.
- Trimmed trees along nearly **7,000** miles of electric distribution lines.
- Installed **159,000** electric and **99,824** gas smart meters.

[Learn more](#)

Click the button below to follow along as we work towards illuminating a brighter, more efficient tomorrow.

## Building a smart energy future®

Investing in the economic development of the communities we serve.

Through a combination of innovative practices, we have not only improved our operations, but we have also become a driving force for positive change in our community. At CenterPoint Energy, we actively contribute to the growth of our communities by supporting opportunities that foster prosperity for all.

In a little over a decade, we have shown our dedication to job creation and supporting local economic growth including:

- Infrastructure enhancements and support increased electric
- Toyota**
- Upgrades to serve growth to the **Evansville Regional Airport**
- Investing more than **\$350,000** in support of the Evansville Region

[Learn more](#)

Click the button below to follow along as we work towards illuminating a brighter, more efficient tomorrow.

[CenterPointEnergy.com/SmartSavings](#)

CenterPoint Energy

**In 2023, the Evansville Vanderburgh School Corporation received more than \$1 million in rebates, paving the way for lasting savings for years to come.**

[CenterPointEnergy.com/SmartSavings](#)

CenterPoint Energy



# Utilizing On-bill Communication

Leveraged **bill messages** as well as **bill onserts** to deliver important messages to customers.

Our records indicate you have received energy assistance for the 2023-2024 winter heating season. Moratorium protection ends Mar. 15, and past due balances must be paid in full by this date. A check or credit card payment can be made by phone or at [CenterPointEnergy.com](http://CenterPointEnergy.com). For further assistance or to check payment arrangement eligibility, call us at 800-227-1376. Failure to pay, or set up payment arrangements, for past due balances before Mar. 16 may result in the disconnection of services.

## Resources are available to help you with your home energy bills.



Bill payment assistance



Weatherization assistance

## Uplifting the vibrancy of our shared communities.

At the newly renovated CenterPoint Energy YMCA's Caldwell Community Center, we are proud to support life-changing opportunities that will positively impact current and future families in our community.



## Expanding the Boys & Girls Club

The CenterPoint Energy Foundation is proud to work with the Boys & Girls Club to provide learning opportunities to students through Rockport Elementary School's new after-school programs.

Learn more about the work we're doing in our communities at [CenterPointEnergy.com/Foundation](http://CenterPointEnergy.com/Foundation).

## Understanding Your Bill

CenterPoint Energy understands you may have questions or concerns about the different sections, charges, and other account details shown on your monthly bill. With your convenience in mind, we would like to remind you of our "Understanding Your Bill" document, which provides a break-down of each element of your bill. From Distribution & Service Charges to Data Usage Comparison, we want to be sure you know where your dollar is going. Simply snap a picture of the QR code to view.

Scan the QR code for options to help you manage your bill.

## Manage billing peaks

Manage the seasonal ups and downs of your bill by signing up for Budget Bill. Smooth out those monthly billing peaks for more predictable bills making it easier on your budget. Learn more at [CenterPointEnergy.com/Billing](http://CenterPointEnergy.com/Billing).

CenterPoint Energy, we believe all children should have access to books directly in their homes. Our partnership to **Dolly Parton's Imagination Library** helps the program mail free, high-quality books to children from birth to age five, no matter their family's income.

Check availability and enroll your child today at [ImaginationLibrary.com](http://ImaginationLibrary.com).



# Customer Support



- Township Trustee and 211 Referral
- Equipment Rebates
- LIHEAP Support
- Access to Service Fairs
- Share the Warmth – Weatherization program offered year-round.
- Community Support