



*Williams/Via*

**RESOLUTION NO. 6704**

**WHEREAS**, the Board of the Directors has determined it is in the best interest of the District, its employees, and its customer-owners to establish written policies that describe and document OPPD's corporate governance principles and procedures; and

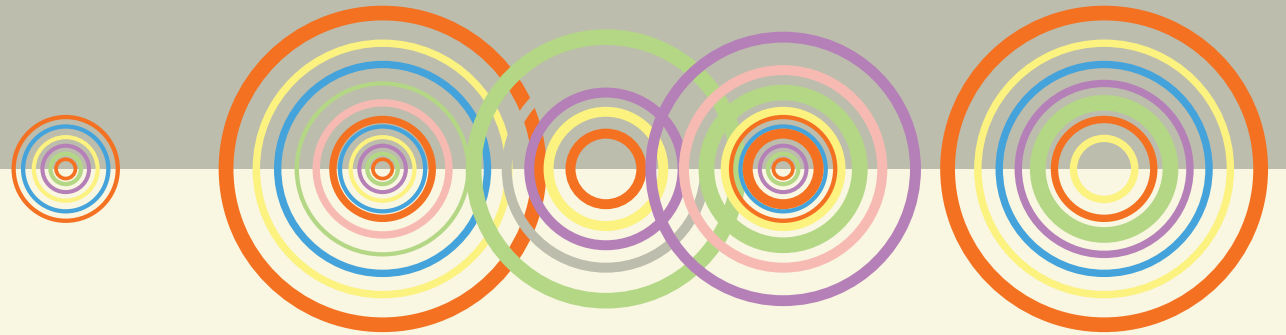
**WHEREAS**, each policy was evaluated and assigned to the appropriate Board Committee for oversight of the monitoring process; and

**WHEREAS**, the Board's System Management and Nuclear Oversight Committee (the "Committee") is responsible for evaluating Board Policy SD-4: Reliability on an annual basis. The Committee has reviewed the SD-4: Reliability Monitoring Report and finds OPPD is taking reasonable and appropriate measures to comply with the policy as stated.

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of the Omaha Public Power District hereby accepts the SD-4: Reliability Monitoring Report, in the form as set forth on Exhibit A attached hereto and made a part hereof, and finds OPPD is taking reasonable and appropriate measures to comply with the policy as stated.

# SD-4: RELIABILITY MONITORING REPORT

➤ April 2025



System Management & Nuclear Oversight Committee Report  
Troy Via, COO & VP Utility Operations



# SUMMARY SD-4: RELIABILITY

As our communities become more reliant on electric services, reliability must also continue to improve. The generation fleet, transmission system, and distribution system are all elements of OPPD's vertically integrated systems to delivery energy services to our customer-owners. The reliability of each of these system elements contributes to the overall reliability of our service. Therefore, to demonstrate reliable operations of its electric utility system, OPPD shall:

- Assure all **customer energy requirements are met** through the use of its generation resources and purchased power portfolio **100 percent of the time**; and

## Generation

- Maintain OPPD's owned generation fleet **Equivalent Forced Outage Rate (EFOR\*)** at or below the middle of the **second quartile** of a benchmark fleet of comparable generation; and

## Transmission

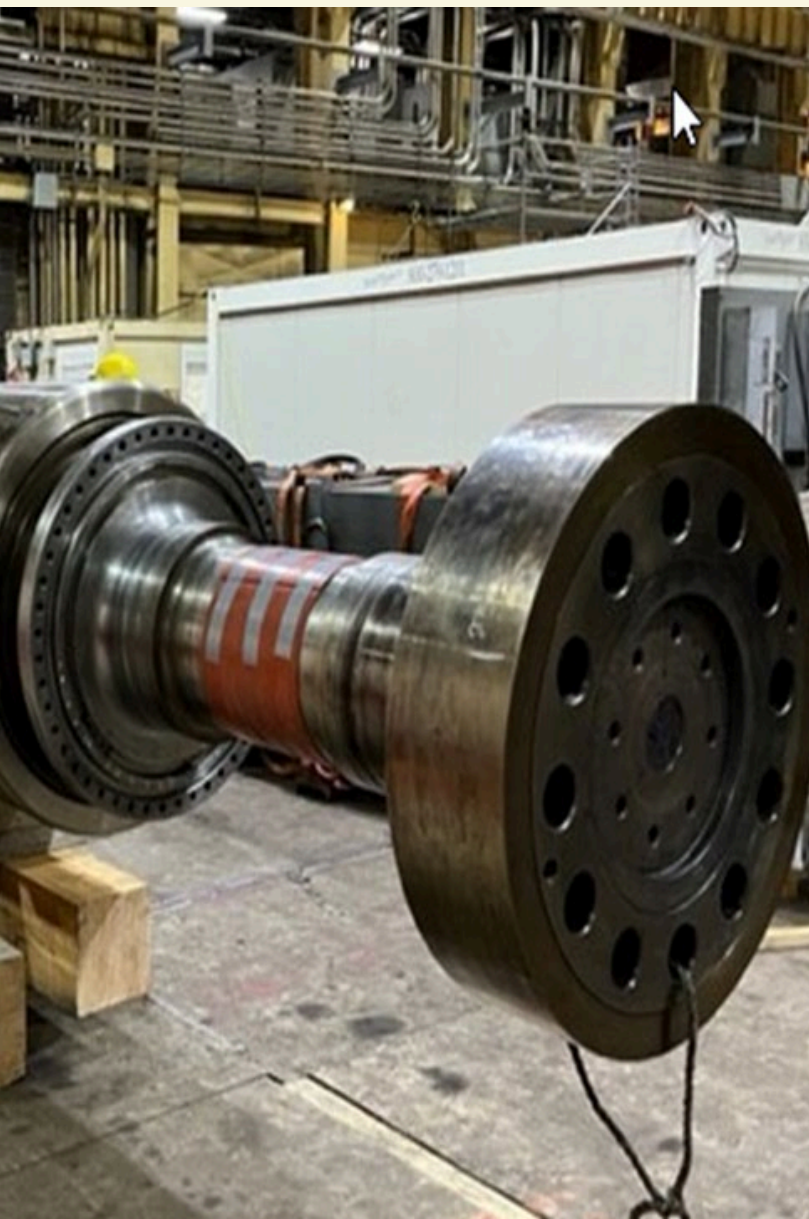
- **Operate and maintain** the system in accordance with all applicable **NERC Reliability Standards**; and

## Distribution

- Maintain the **System Average Interruption Duration Index (SAIDI\*)** to **top quartile performance** for a benchmark of comparable electrical utilities, excluding Major Event Days; and
- Maintain the **System Average Interruption Frequency Index (SAIFI\*)** to **top quartile performance** for a benchmark of comparable electric utilities, excluding Major Event Days.

All measures will be tracked on a 12-month rolling average basis.

\*Defined in glossary



# 2024 PERFORMANCE

## SD-4 Performance

- Met customer energy requirements 100% of the time
- More improvement needed to reduce forced generation outages
- Minimized duration of outages for customers
- Minimized frequency of outages for customers
- Met applicable NERC reliability standards



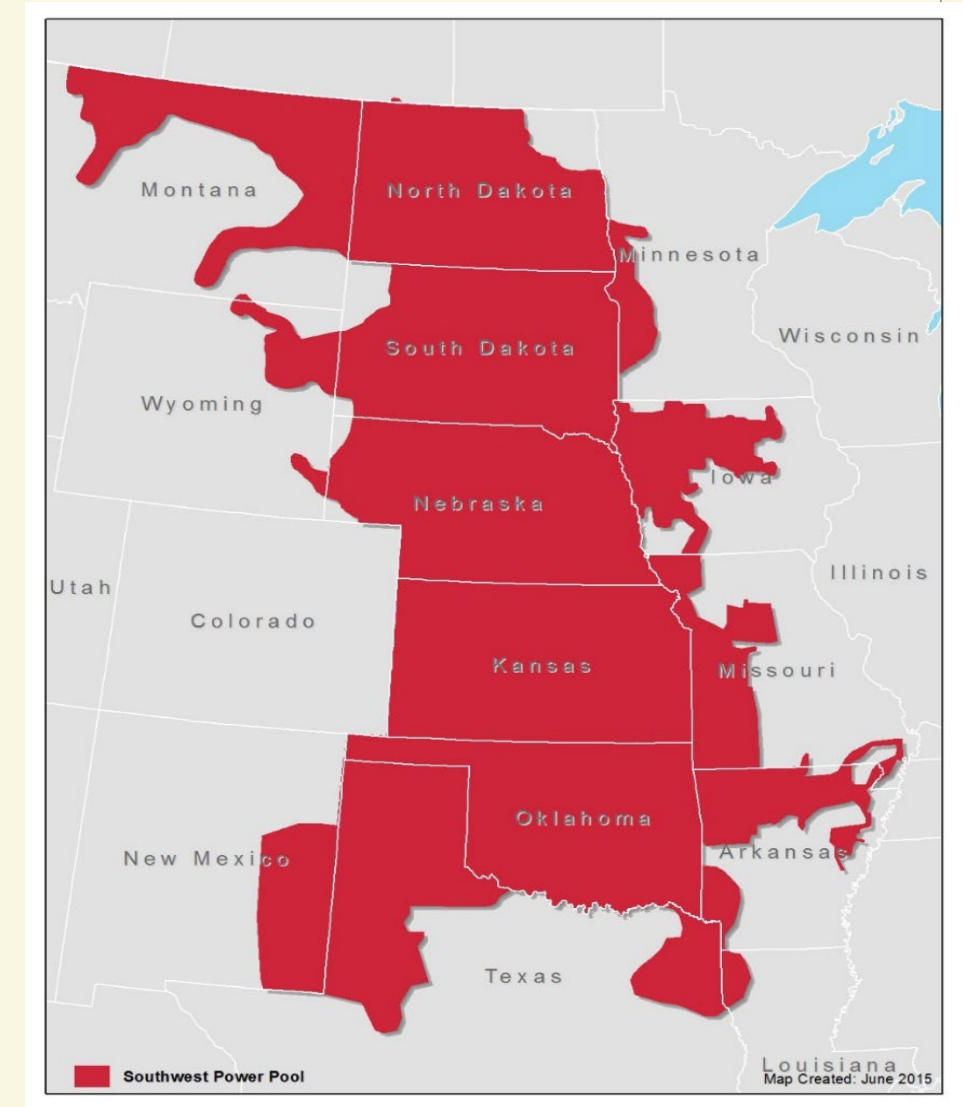
**OPPD SHALL  
ASSURE  
GENERATION  
RESOURCES AND  
PURCHASE POWER  
PORTFOLIO MEETS  
CUSTOMER  
ENERGY DEMAND  
100% OF THE TIME.**



# ENERGY SUPPLY

OPPD had generation and energy supply available to meet customer demands throughout 2024

- SPP real-time balancing of generation and load
- Set up with a Planning Reserve Margin and the criteria of SD9
- Transmission reservations under SPP tariff provide a firm “lane in the highway” to deliver energy to load





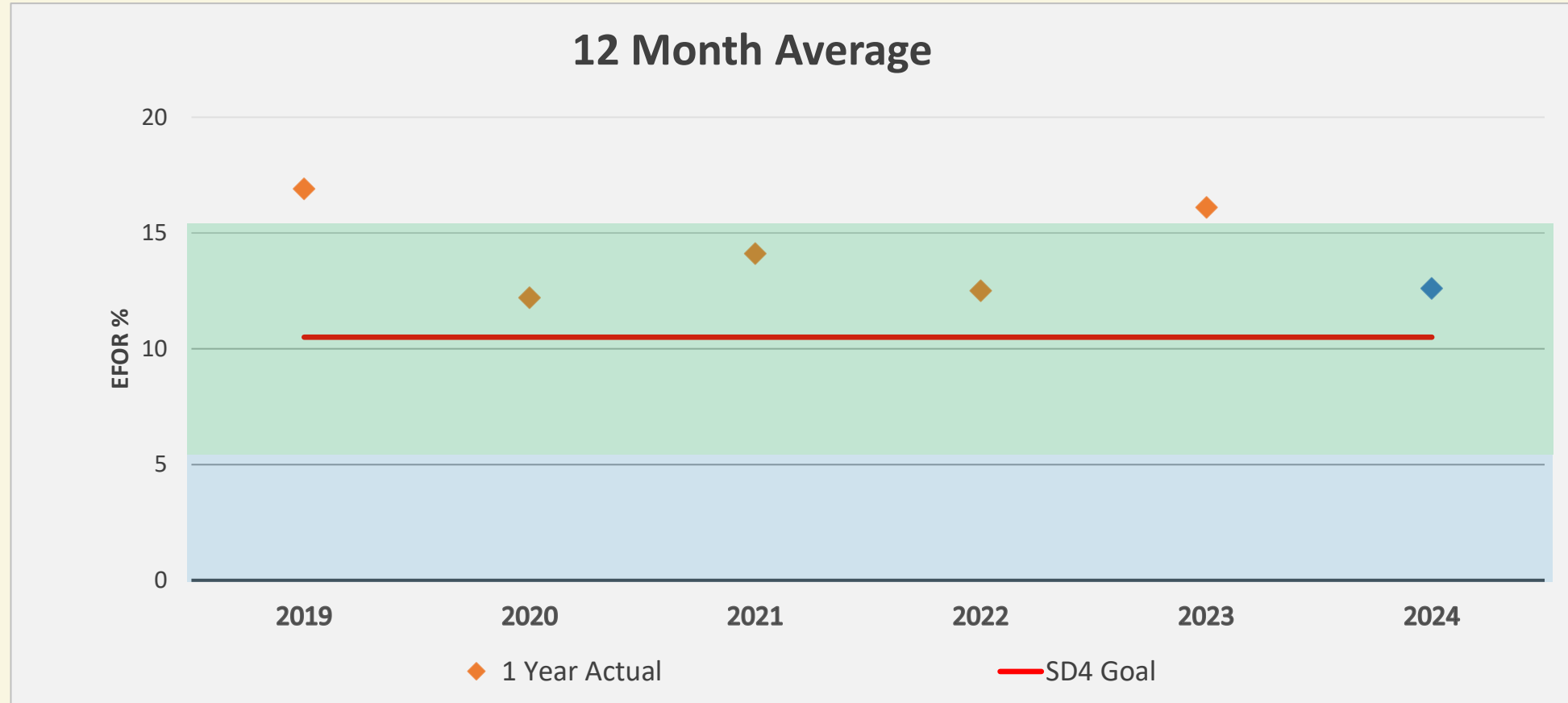
# GENERATION RELIABILITY



# GENERATION

## EQUIVALENT FORCED OUTAGE RATE (EFOR):

*Ratio of Forced Outage Hours to Service Hours*



**2024 EFOR WAS 12.6% 2<sup>ND</sup> QUARTILE PERFORMANCE: GOAL NOT MET**

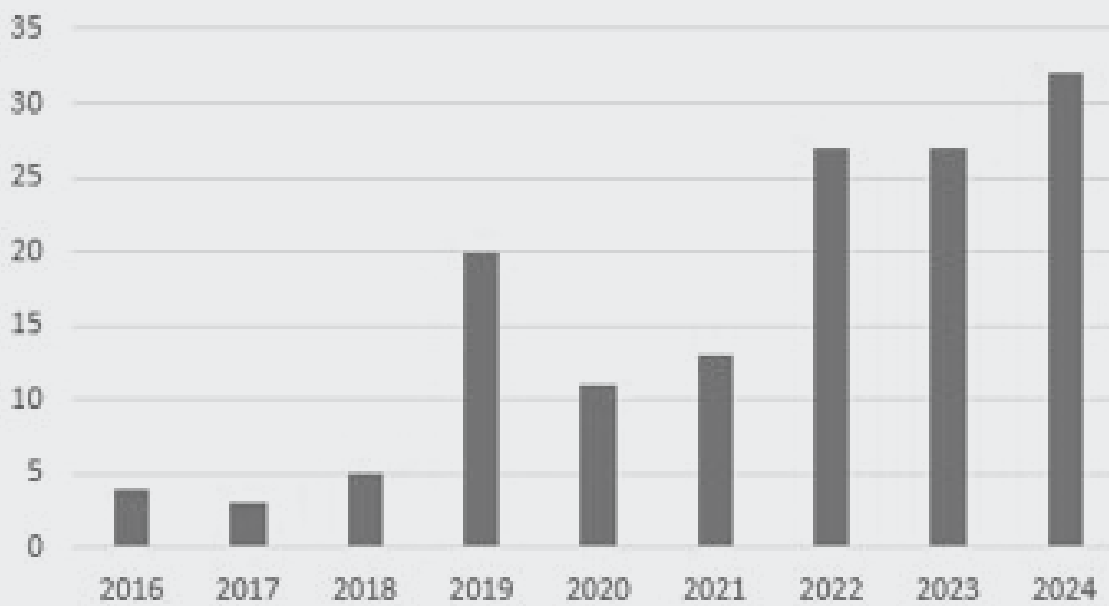
\*Includes all owned generation



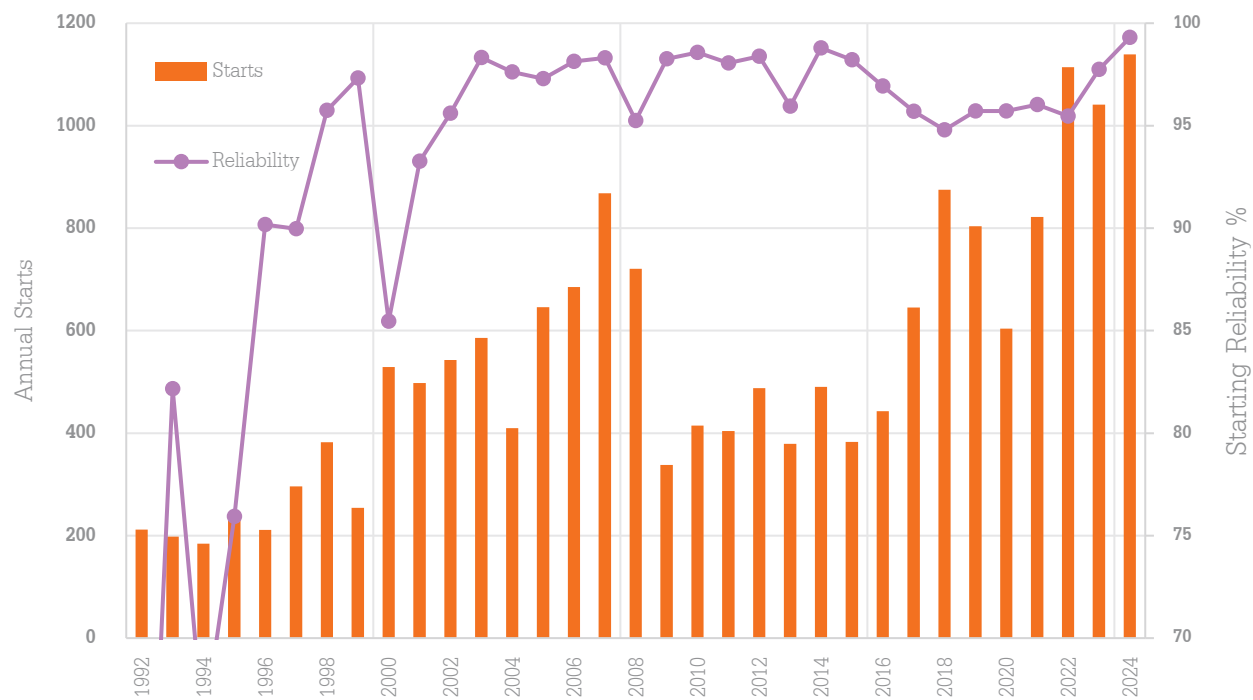
# GENERATION: A RECORD YEAR



SPP Reliability Events Since 2016



OPPD Fleet Annual Starts and Starting Reliability



# ELECTRIC SYSTEM RELIABILITY



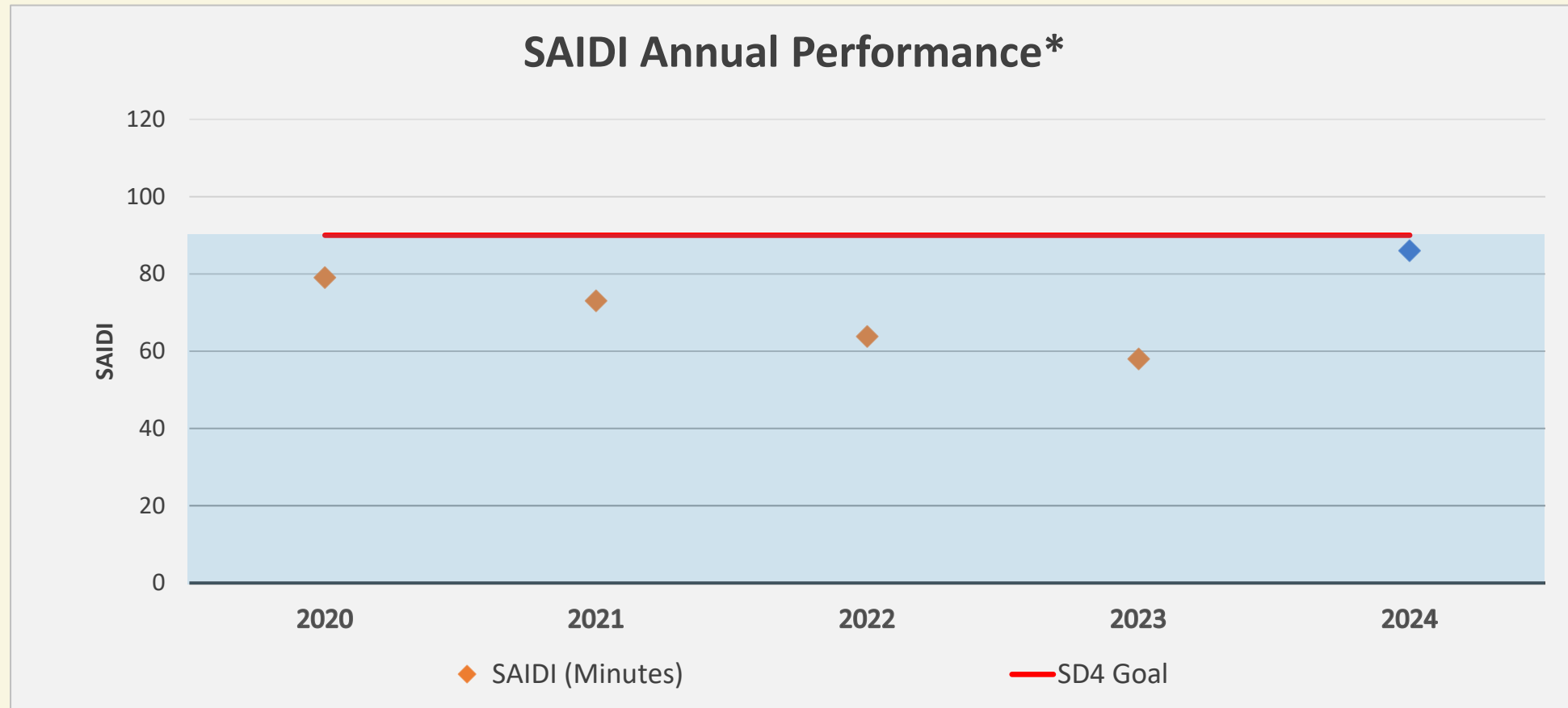




# CUSTOMER INTERRUPTIONS

## SYSTEM AVERAGE INTERRUPTION DURATION INDEX (SAIDI)

*Average outage length across the system per customer*



**2024 SAIDI WAS 86 MINUTES 1<sup>ST</sup> QUARTILE PERFORMANCE**

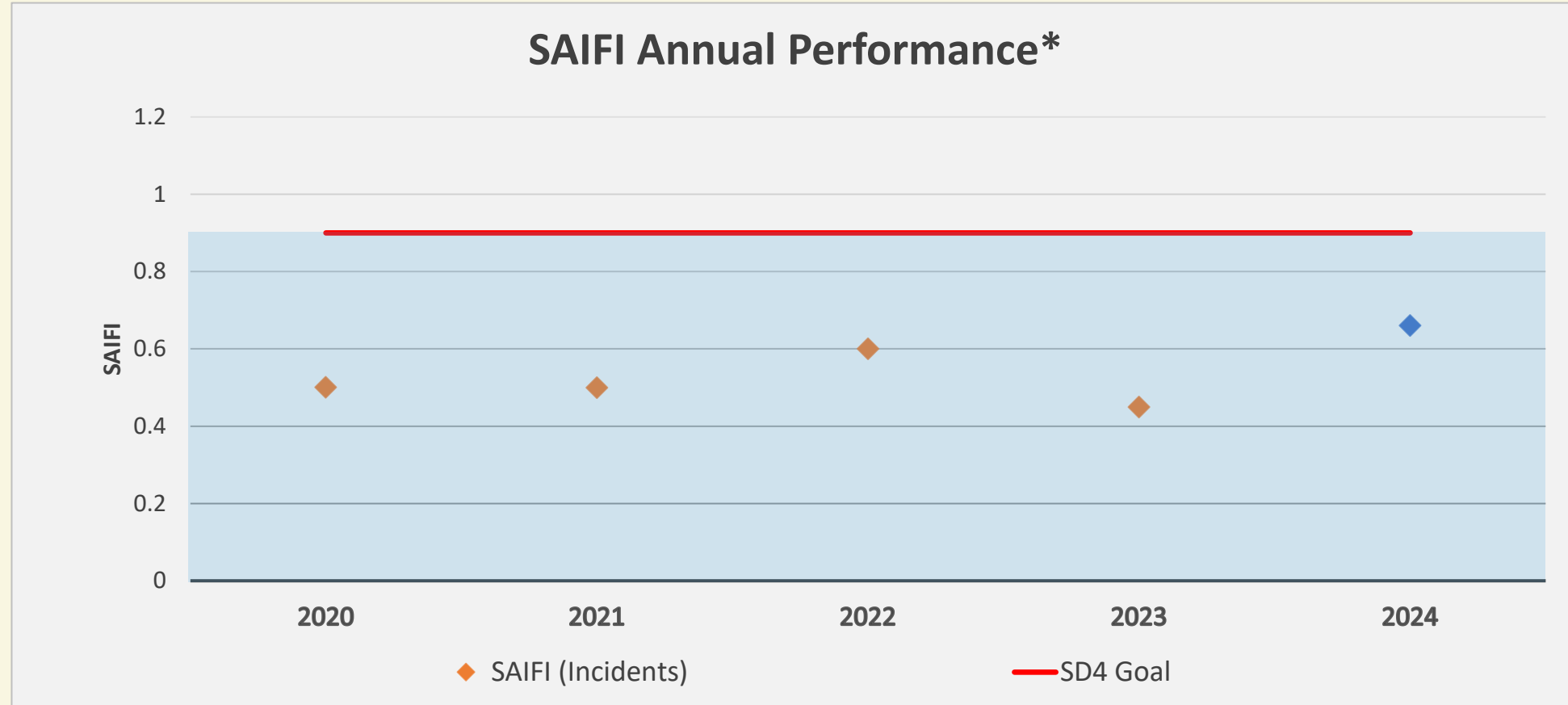
\*Excludes Major Event Days



# CUSTOMER INTERRUPTIONS

## SYSTEM AVERAGE INTERRUPTION FREQUENCY INDEX (SAIFI)

*Average frequency of outages across the system*



**2024 SAIDI WAS 0.66 INCIDENTS 1<sup>ST</sup> QUARTILE PERFORMANCE**

\*Excludes Major Event Days





## **STORM CHALLENGES**

- Significant storm impacts in 2024
- Evolving system design needs
- Mature urban tree canopy



**MAINTAIN A  
RELIABLE  
TRANSMISSION  
SYSTEM  
IN ACCORDANCE  
WITH NERC  
STANDARDS**

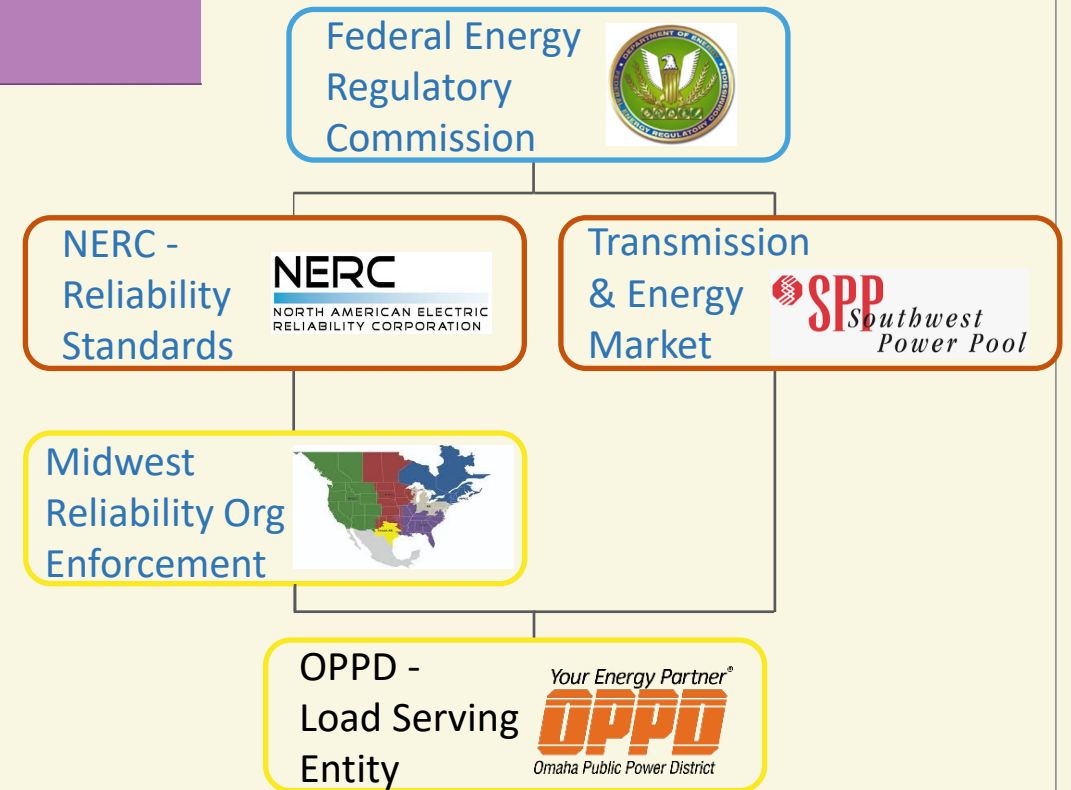




# TRANSMISSION RELIABILITY

OPPD has met all regulatory requirements to ensure a reliable transmission system.

- MRO 2024 Compliance Activities
  - Rigorous Self-Monitoring Program
  - Quarterly Compliance self-certifications
  - On-site Audit every 3-years
- No material NERC violations since the last SD-4 update



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## RECOMMENDATION:

The System Management & Nuclear Oversight Committee has reviewed and accepted this Monitoring Report for SD-4 and **recommends that the Board finds OPPD is taking reasonable and appropriate measures to comply** with Board Policy SD-4.

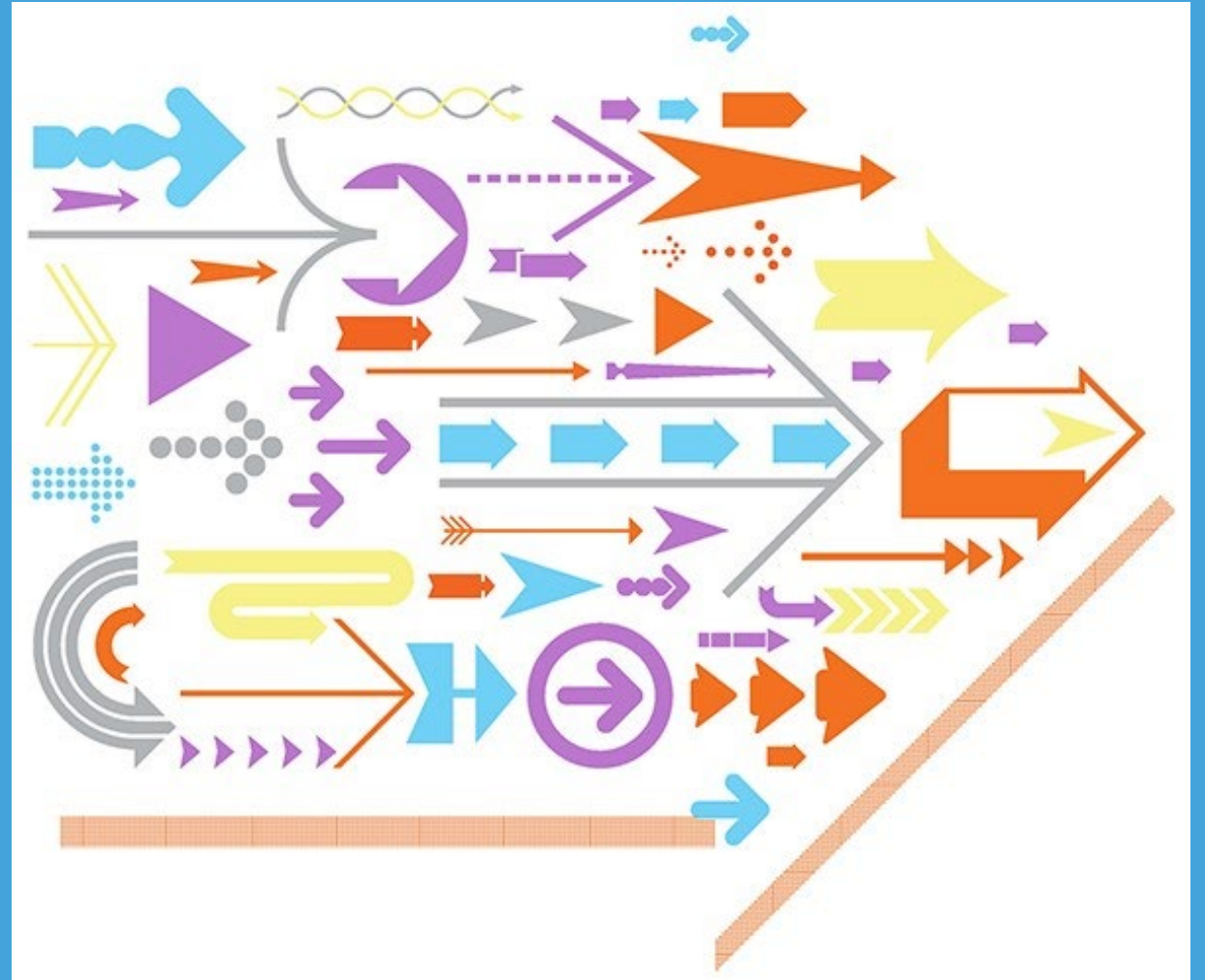
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### SD-4 Performance

- Met customer energy requirements 100% of the time
- Improvement needed to reduce forced generation outages
- Minimized duration of outages for customers
- Minimized frequency of outages for customers
- Met applicable NERC reliability standards

# Any reflections on

- what has been accomplished, challenges and/or strategic implications?







## Action Item

April 15, 2025

### ITEM

SD-4: Reliability Monitoring Report

### PURPOSE

To ensure full board review, discussion and acceptance of the SD-4: Reliability Monitoring Report.


### FACTS

- a. The first set of Board policies was approved by the Board on July 16, 2015. A second set of Board policies was approved by the Board on October 15, 2015. The Board subsequently updated SD-4: Reliability on November 16, 2023.
- b. Each policy was evaluated and assigned to the appropriate Board Committee for oversight of the monitoring process.
- c. The System Management and Nuclear Oversight Committee is responsible for evaluating Board Policy SD-4: Reliability.
- d. The System Management and Nuclear Oversight Committee has reviewed the SD-4: Reliability Monitoring Report and finds that OPPD is taking reasonable and appropriate measures to comply with the policy.

### ACTION

The System Management and Nuclear Oversight Committee recommends Board approval of the SD-4: Reliability Monitoring Report.

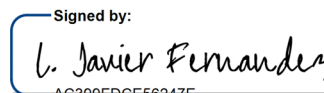
RECOMMENDED:

Signed by:  
  
181107221FA24AE...  
Troy R. Via  
Chief Operating Officer and  
Vice President – Utility Operations

TRV:cjz

Attachments: Exhibit A – Monitoring Report  
Resolution

APPROVED FOR BOARD CONSIDERATION:

Signed by:  
  
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L. Javier Fernandez  
President and Chief Executive Officer