



Moody/Via

RESOLUTION NO. 6642

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 be sufficiently in compliance 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.



Exhibit A

SD-4: Reliability Monitoring Report

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, the reliability of that service 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.

2023 Performance

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

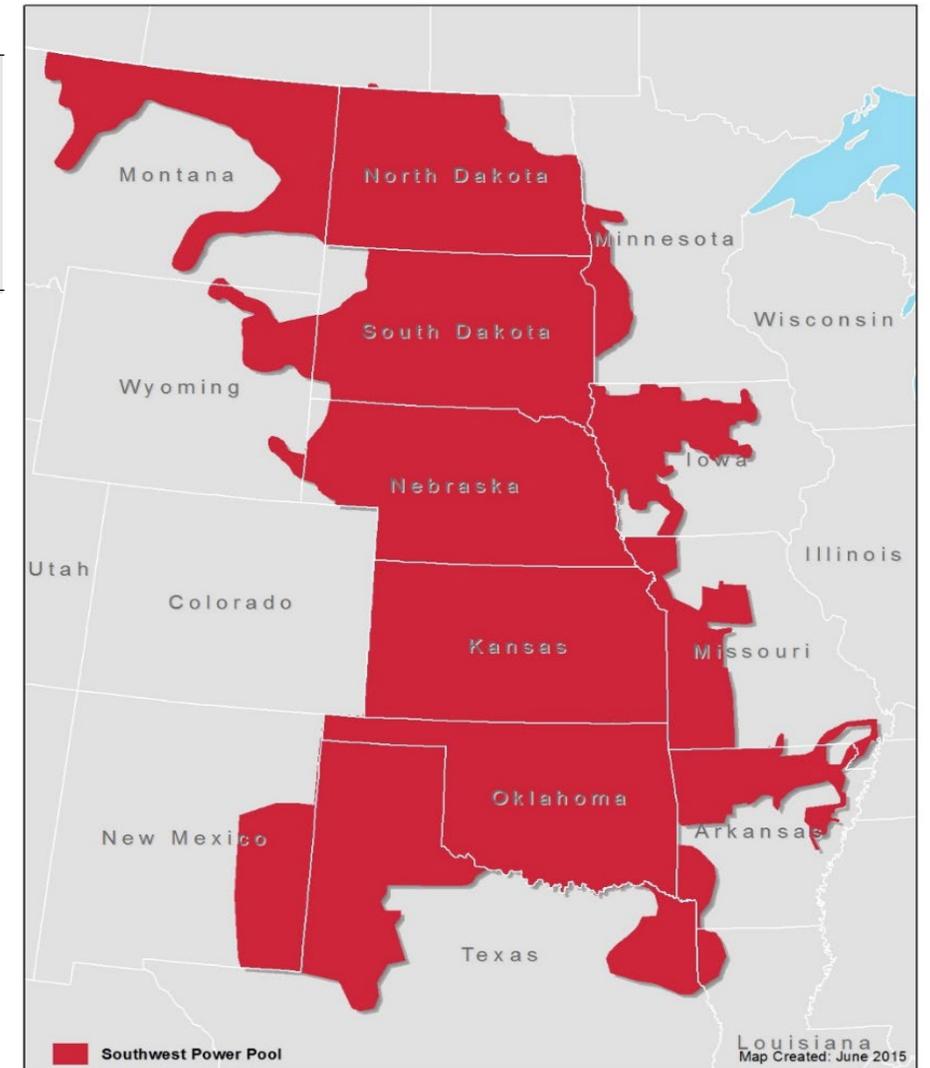
*OPPD shall assure
generation resources and
purchase power portfolio
meets customer energy
demand 100% of the time.*



Energy Supply

OPPD has met supply requirements in a challenging environment that includes weather events, increased demand and increasing capacity requirements that ensure system reliability.

- ✓ SPP real-time balancing of generation and load
- ✓ SPP 115% planning reserve margin (Summer/Winter)
- ✓ Transmission reservations under SPP tariff provide a firm “lane in the highway” to deliver energy to load



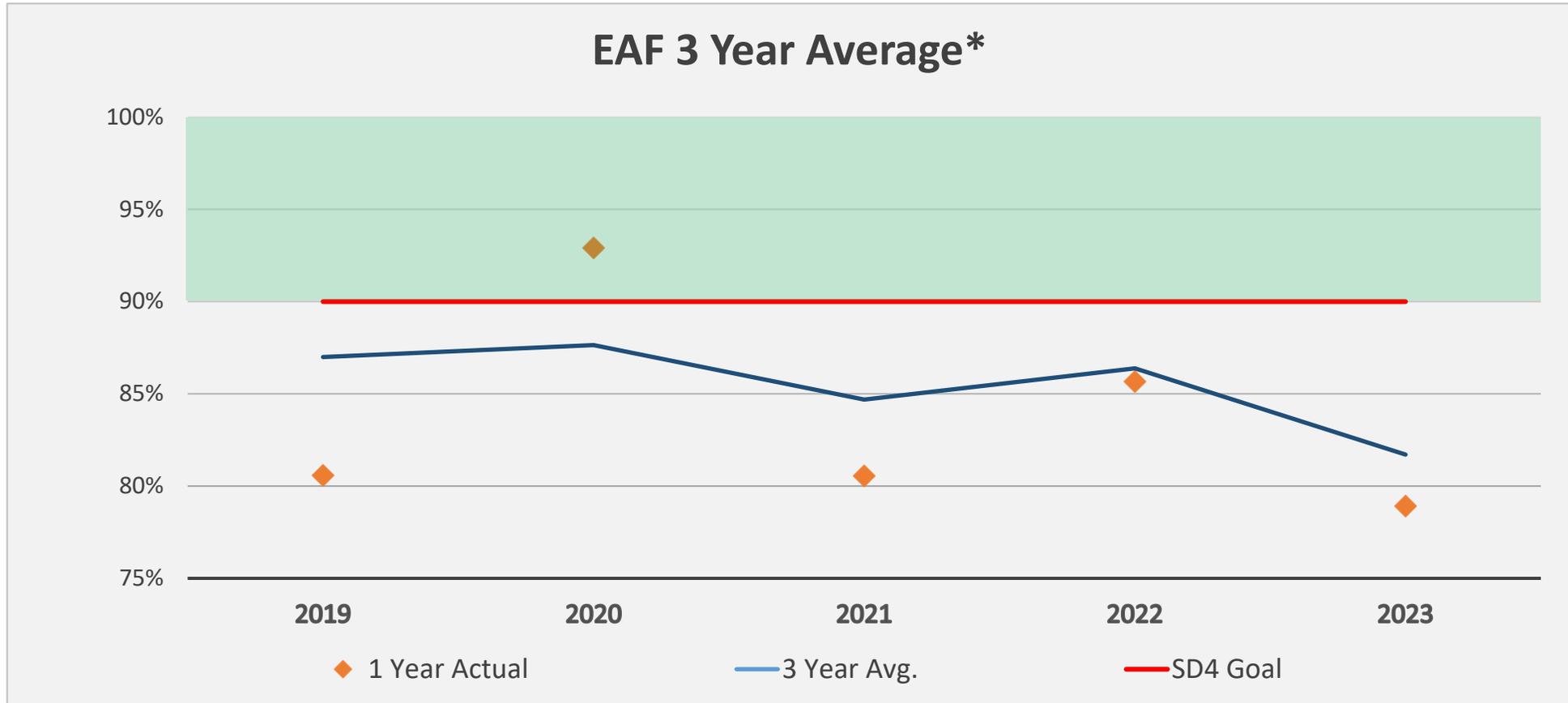
Generation Reliability

Nebraska City Unit 2 Maintenance Outage 2023



Equivalent Availability Factor (EAF): *Previous Metric*

Percentage of time generation was available

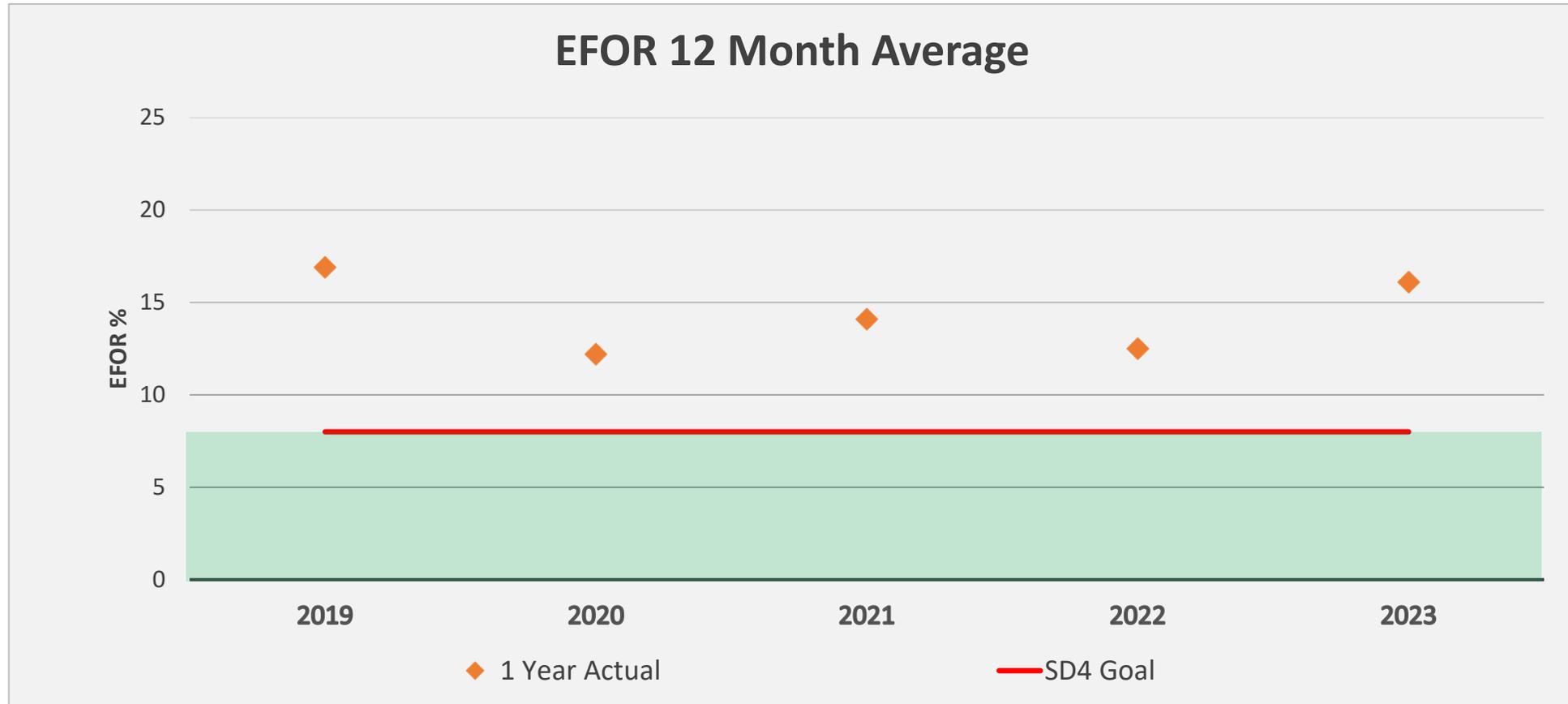


2023 EAF 3 year was **81.7%**, 3rd Quartile Performance

* Coal Stations Only

Equivalent Forced Outage Rate (EFOR):

Ratio of Forced Outage Hours to Service Hours



2023 EFOR was **16.1%**, 3rd Quartile Performance

*Includes all owned generation

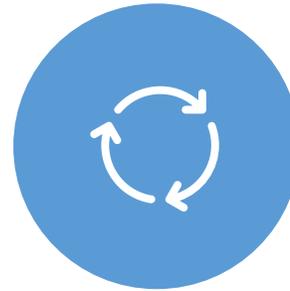
Improving Generation Reliability



Predictive, pro-active
planning



Front-line engagement to
identify and fix problems -
**Generation Reliability
Improvement Program**



Comprehensive
equipment review based
on industry standards



SD-4 metric that allows
us to take more time in
planned outages to
address issues

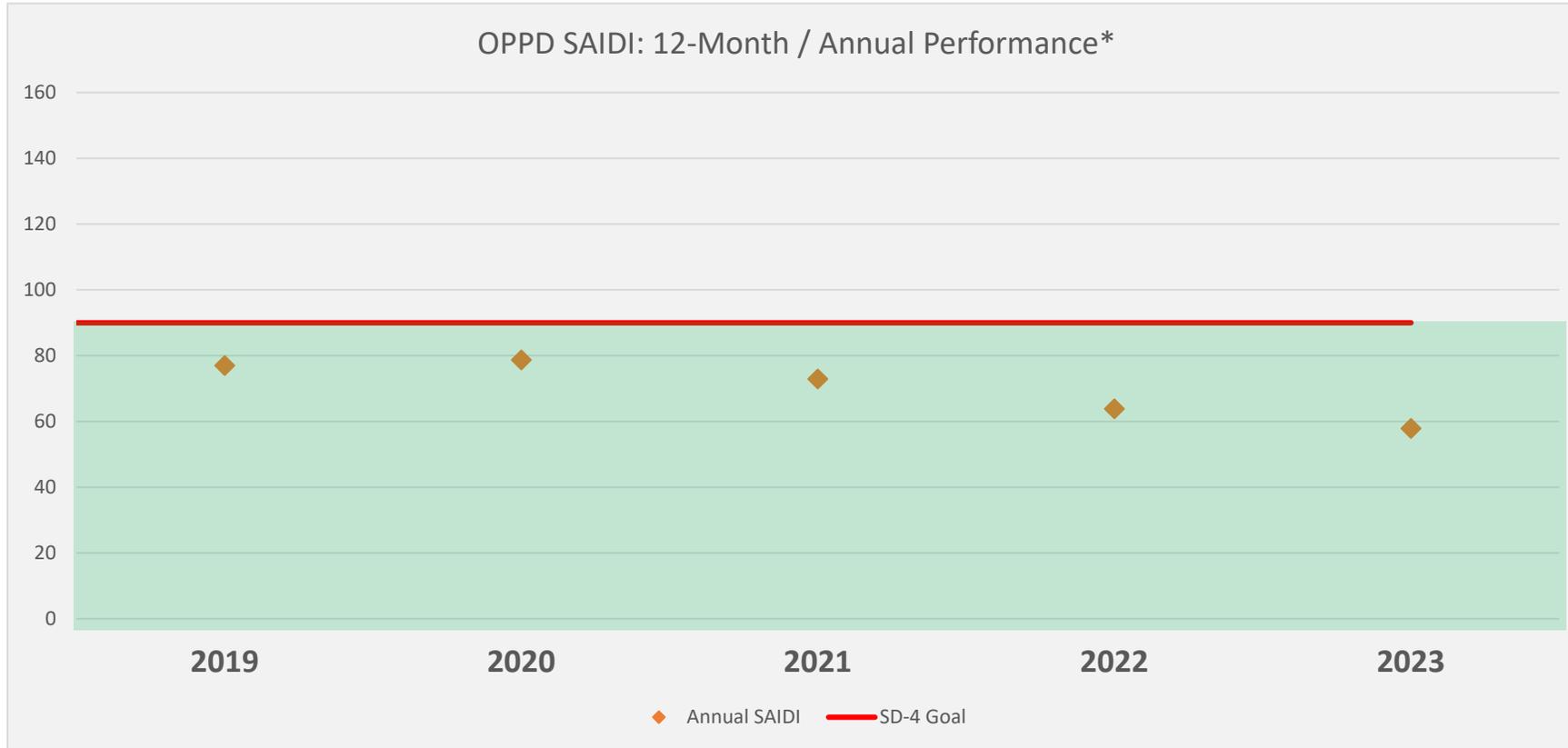
Comprehensive approach designed to help OPPD identify and address more reliability risks quickly

Electric System Reliability



System Average Interruption Duration Index (SAIDI):

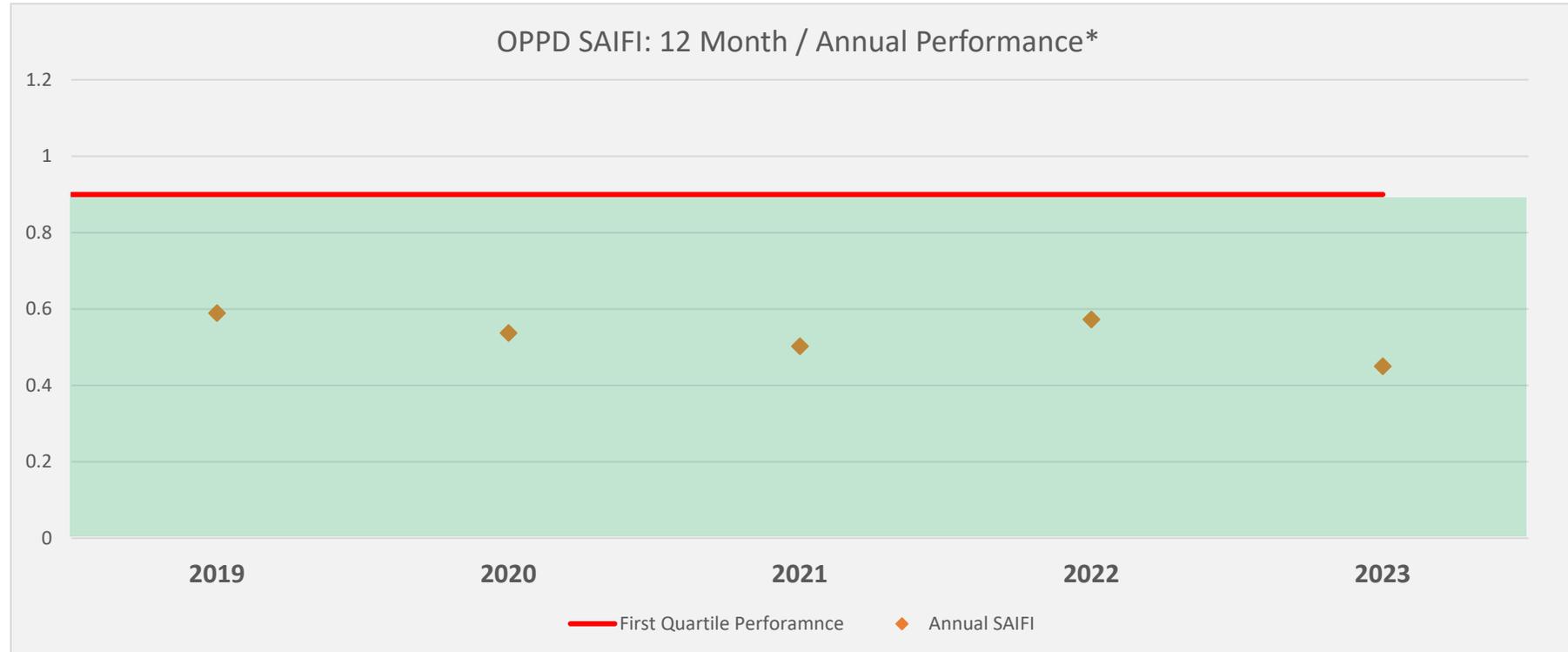
Average outage length across the system per customer



2023 SAIDI **58 Minutes**, 1st Quartile Performance

System Average Interruption Frequency Index (SAIFI):

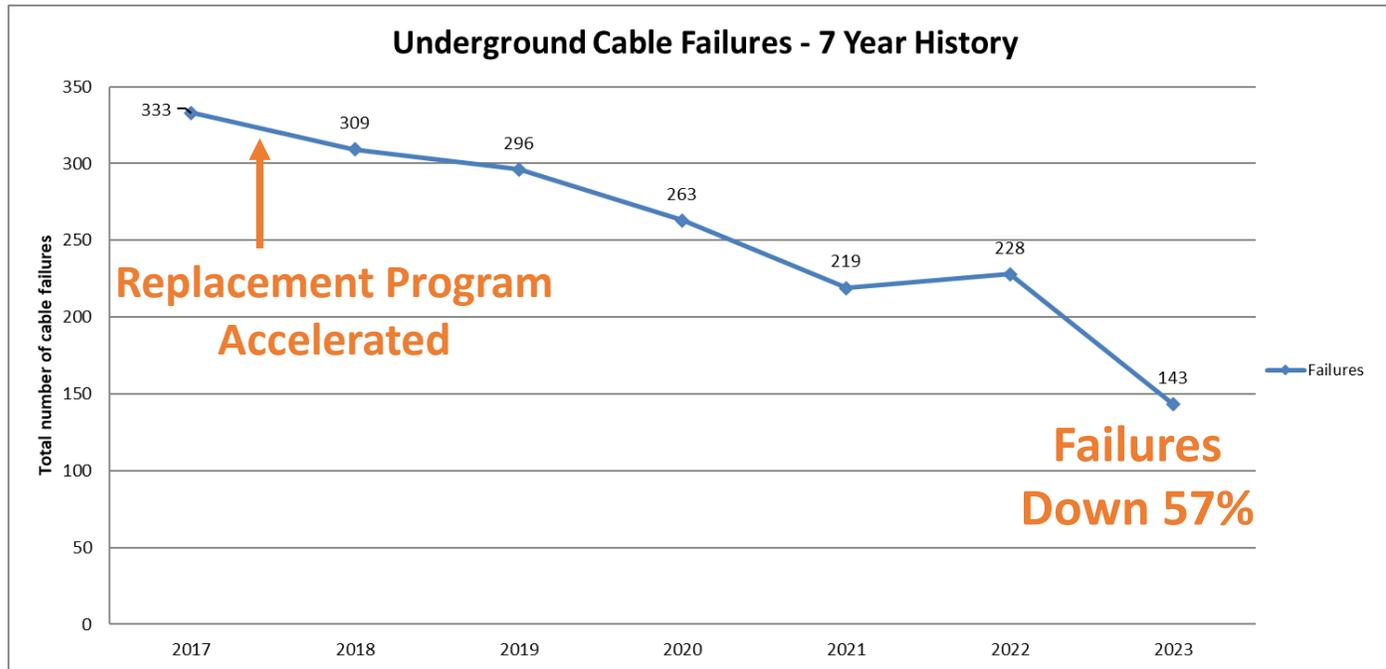
Average frequency of outages across the system



2022 SAIFI **0.45** incidents, 1st Quartile Performance

Record: Underground Cable

Ongoing investment in underground cable program has yielded a definite return: 2023 had the lowest recorded cable failures on record



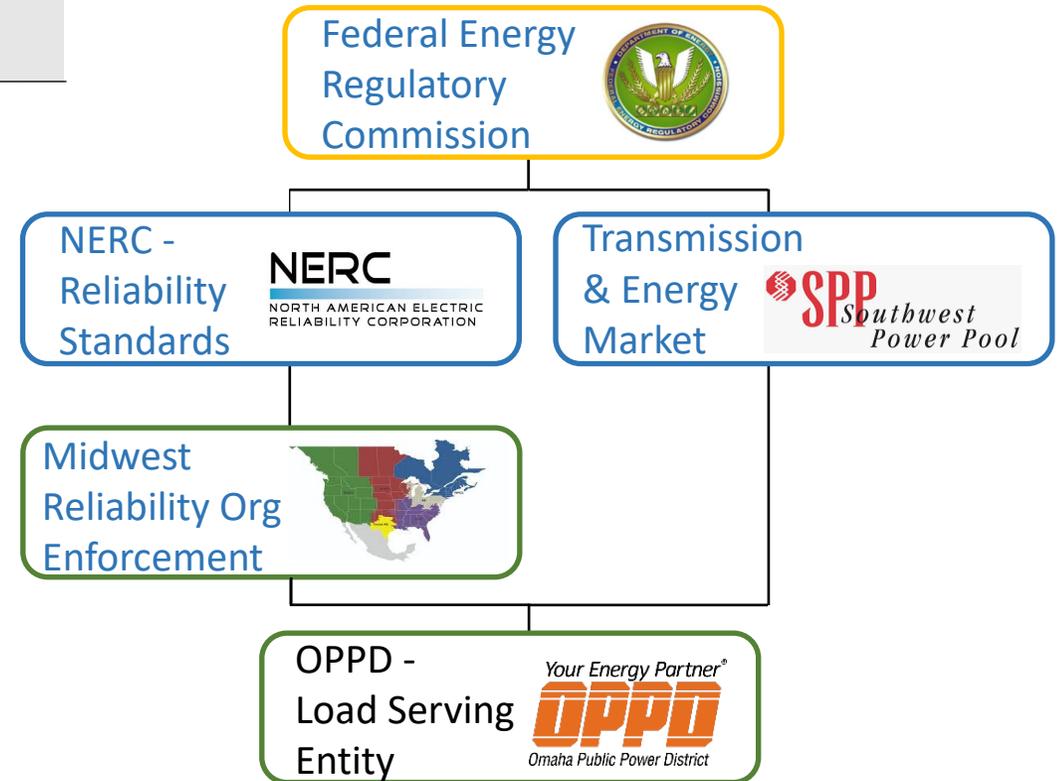
*Maintain a reliable
transmission system
in accordance with
NERC standards*



Transmission reliability

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

- ✓ MRO 2023 audits
 - Off-site (quarterly) → no enforceable violations
 - On-site (every 3-years, 2025) → no enforceable violations
- ✓ OPPD performs continuous monitoring
- ✓ No enforceable NERC violations since the last SD-4 update



Recommendation:

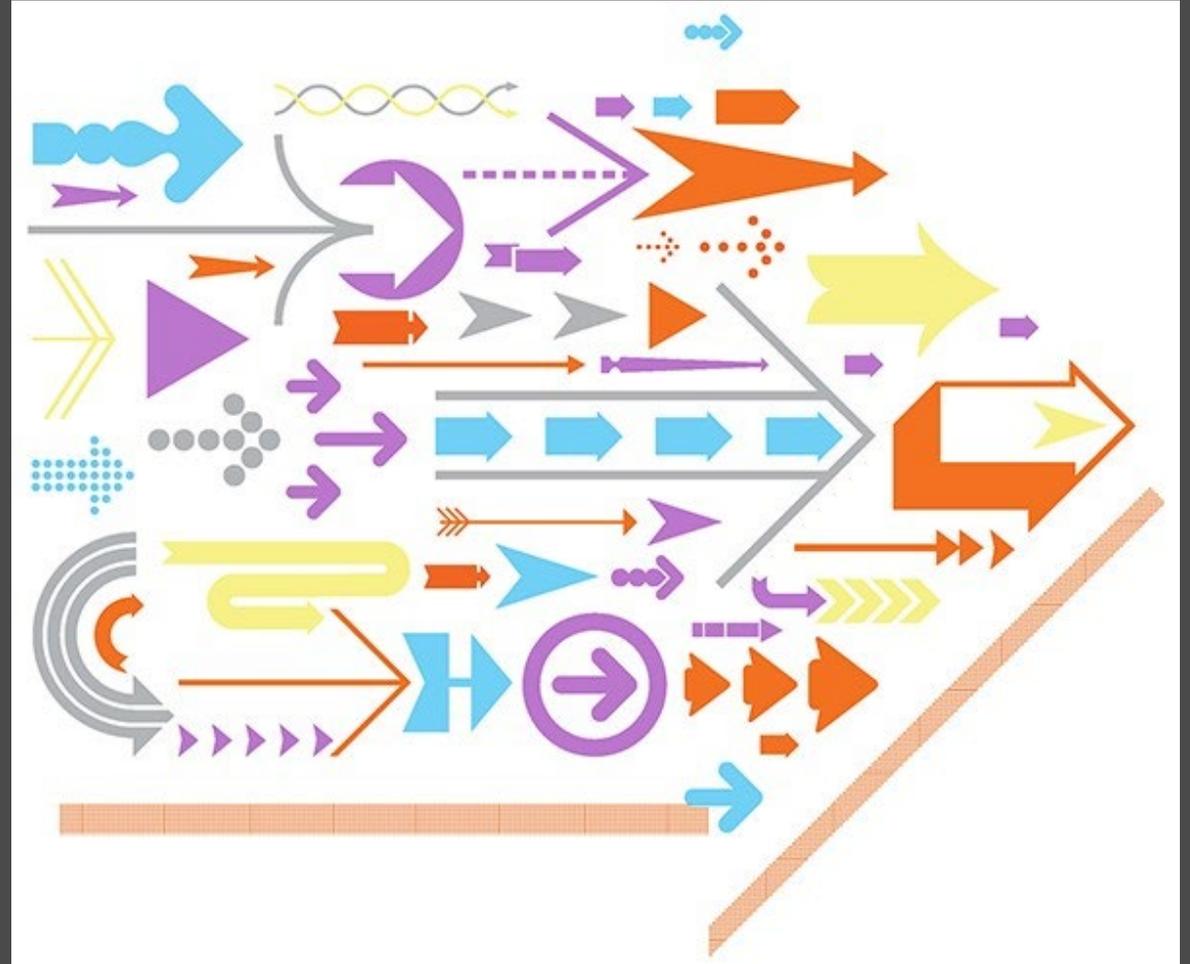
The System Management & Nuclear Oversight Committee has reviewed and accepted this Monitoring Report for SD-4 and **recommends that the Board finds OPPD is taking reasonable and appropriate measures to comply** with Board Policy SD-4.

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?**





Board Action

BOARD OF DIRECTORS

April 16, 2024

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:

APPROVED FOR BOARD CONSIDERATION:

DocuSigned by:

 181187221FA24AE...
 Troy R. Via
 Chief Operating Officer and
 Vice President – Utility Operations

DocuSigned by:

 AC399FDCE56247E...
 L. Javier Fernandez
 President and Chief Executive Officer

TRV:cjz

Attachments: Exhibit A – Monitoring Report Resolution