



IMPERIAL IRRIGATION DISTRICT

2022-2023 SB901 WILDFIRE MITIGATION STATUS REPORT



June 18, 2024

Imperial Irrigation District 2022-2023 SB 901 Wildfire Mitigation Status Report

Introduction

The Imperial Irrigation District (IID) SB 901 Wildfire Mitigation Plan meets applicable requirements for publicly owned electric utilities, as required by California Senate Bill 901 Wildfires, and California Assembly Bill 1054 Public Utilities Wildfires, and Employee Protection.

Although the IID does not have infrastructure located in CAL FIRE designated High Fire Hazard Severity Zones, or Very High Fire Hazard Severity Zones, the IID is submitting this status report, describing progress on efforts identified in the IID 2023-2025 WF Mitigation Plan, which may reduce fire ignitions caused by IID power infrastructure.

Executive Summary

No changes were made to the IID 2023-2025 Wild Fire Mitigation Plan.

Steady progress is being made on each of the efforts identified in the wildfire plan.

Computer systems work is continuing to improve how IID gathers, reports, and categorizes, work, and incident information.

One improvement includes adjustments to the poles/lines down incident information. Poles down incidents, and lines down incidents, are now reported separately, where previously these incidents were combined.

In addition, incident category adjustments are making it easier for staff to properly classify incidents. Note; Category adjustments changed incident totals from previous reports. In some cases, yearly incident totals show an upward trend. Additional incident information is required to determine additional actions needed.

Development of a new mobile application allowing staff to easily report encroachment, and imminent threat incidents is complete. The IID Regulation 23 mobile application, and incident management application, are expected to be commissioned Q1 2024. Trend graphs for encroachments, and imminent threats, are expected to be included in the 2024 SB 901 status report.

SB 901 Wild Fire Mitigation Effort Summary and Status

Relay Modernization Program – Relay Protection Unit

IID plans to replace existing electromechanical and solid-state relays with microprocessor relays, per Board of Directors approved scope, schedule, and funding. New microprocessor relays include relays that have the ability to detect power line breaks before a high amperage power line fault to ground occurs.

Imperial Irrigation District budgets annually for relay modernization. These monies are subject to change annually depending on Imperial Irrigation District Board of Directors approval.

As of 2021, Imperial Irrigation District had an installed base of 3967 relays. Of this total, 47% Electromechanical, 14% solid-state, and 39% microprocessor relays.

For the Relay Modernization Program, Imperial Irrigation District has standardized on Schweitzer Engineering Laboratories (SEL) relays. SEL products offer modern, fast acting, communication assisted, microprocessor relays, with traveling wave technology, that quickly detect and act upon power line disturbances.

IID expects to complete the relay modernization program by the early 2030's.

2022-2023 Status:

2022 relay upgrades

- Mecca DPU Replacement 10
- Monroe DPU Replacement 16
- Bravo DPU Replacement 8
- Calexico Bank 1 & 2 6
- Shadow Hill Bank 1 & 2 6
- LH Line Aten to Holtville 6
- CI Line Shadow Hills to Ave 42 6
- Terminal C10 & C20 2
- Westmorland B38 1
- Rockwood Bank 1 & 2 12
- Jefferson C10 1
- SIGC/ Heber Imperial 1
- Bombay Beach P75 1

2023 relay upgrades

- Terminal DPU 6
- P-Line HGC to Perry 12
- Northview Bank #1 6

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Distribution Power Line Bird Deterrents – Electrical Engineering Section

IID is currently installing bird deterrents on an as-needed basis.

2022-2023 Status:

2022, no bird deterrent units installed

2023, 1,050 bird deterrent units installed on two power line segments.

Fire Ignition Metric Improvement

IID plans to adjust software systems to add searchable fields to identify fire ignitions caused by IID infrastructure and caused by others. Currently work management records do not have a searchable field to identify fire ignition cause. IID expects to complete this work by end of 2024.

2022-2023 Status:

Adjustments to software systems have been completed to improve incident classification. However, further work is needed to separately identify fire incidents caused by IID infrastructure, and fire incidents caused by others.

Poles Down, Lines Down Metric Improvement

IID plans to adjust software systems to identify the number of poles for each poles-down incident. IID also plans to have the ability to report the total number of poles down for a selected date range.

In addition, IID expects to have the ability to report the number of lines down incidents for a selected date range.

2022 - 2023 Status:

Adjustments to software systems to improve incident classification are in progress.

One improvement includes adjustments to the poles/lines down incident information. Poles down incidents, and lines down incidents, are now reported separately, where previously these incidents were combined.

The first graph, on page 6, *Imperial Irrigation District Number of Power Line Outages Involving Fire 2019-2023* shows the annual number power line outage incidents involving fire.

The second graph, on page 7, *Imperial Irrigation District Number of Lines Down Incidents per Year 2019–2023* shows the annual number of lines down incidents.

The third graph, on page 8, *Imperial Irrigation District Number of Broken Pole Incidents per Year 2019-2023* shows the annual number of broken pole incidents.

The ability to select incidents by date range is in production in the SAP system.

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Imminent Threat and Encroachment Metric Improvement

IID plans to adjust software systems to record and report various types of powerline corridor encroachments. IID will have the ability to produce incident reports for a selected date range.

2022-2023 Status:

Development of a new mobile application used to report encroachment and imminent threat incidents is complete. The mobile application and management reports are expected to be in production late Q1 2024.

Trend graphs for encroachments, and imminent threats, are expected for the 2024 status report.

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Performance Metrics

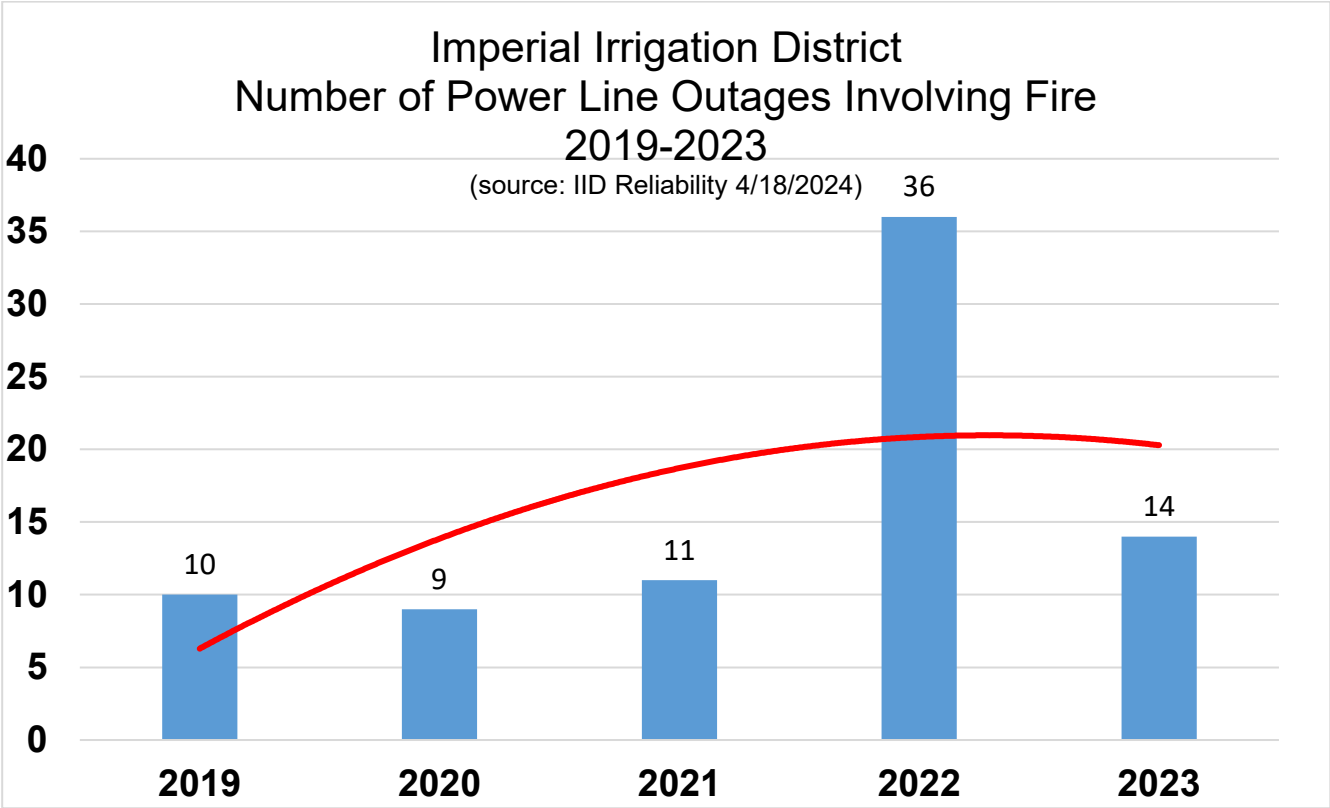
Fire Incidents

For reporting consistency across all IID reporting requirements, the fire incident performance metric has been changed. Previously, the number of fire ignition incidents was reported; the new metric is now the number of power line outages involving fire.

Requirement: Number of Power Line Outages Involving Fire – The metric is the total number of power line outages involving fire located in the IID Service Territory for the calendar year; Goal is zero incidents

Status:

Graph below shows all powerline outages involving fire.



Source IID Reliability 4/18/2024
NOTE: As of 4/18/2024, report includes all powerline outages involving fire.

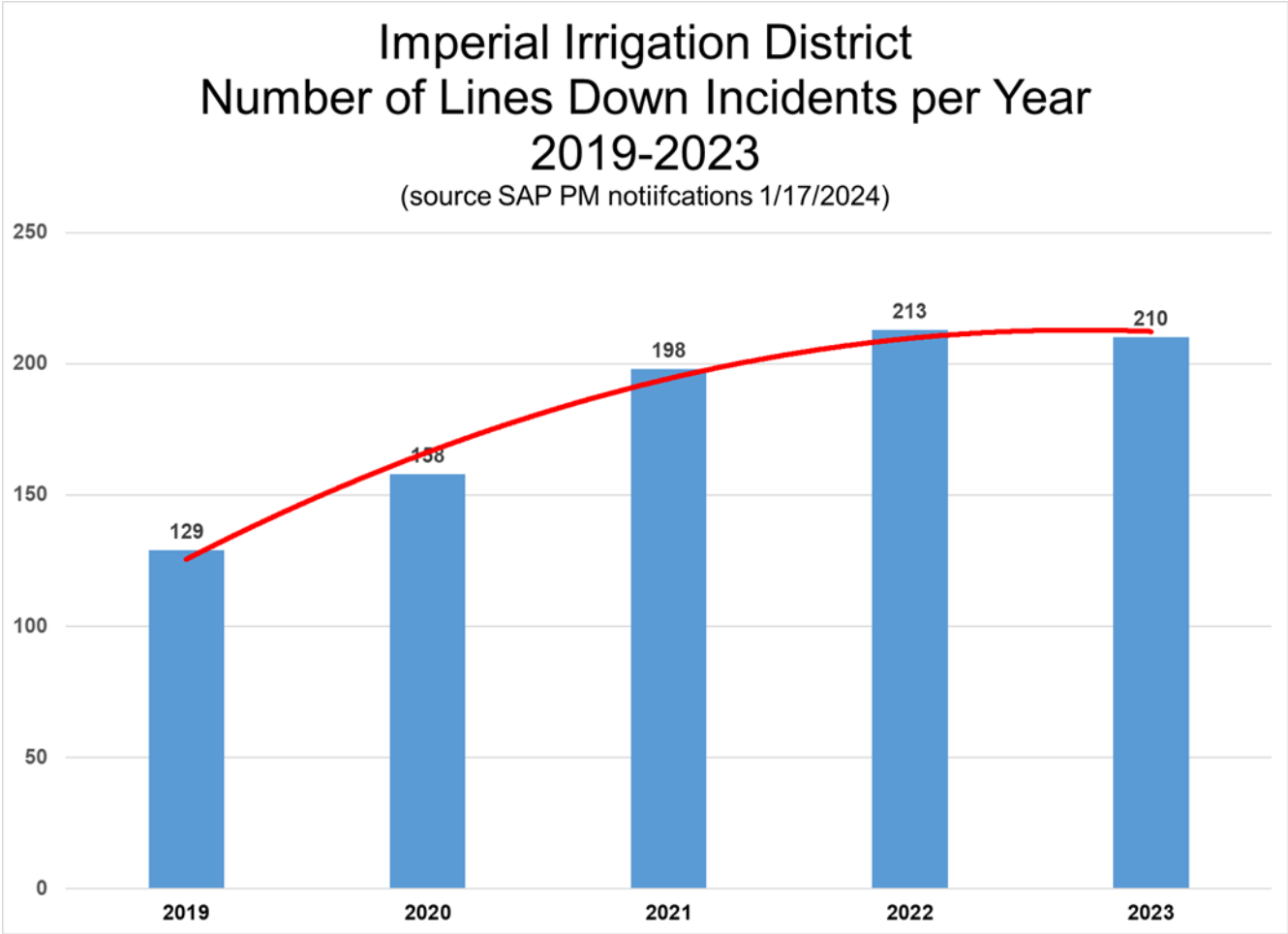
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Lines Down

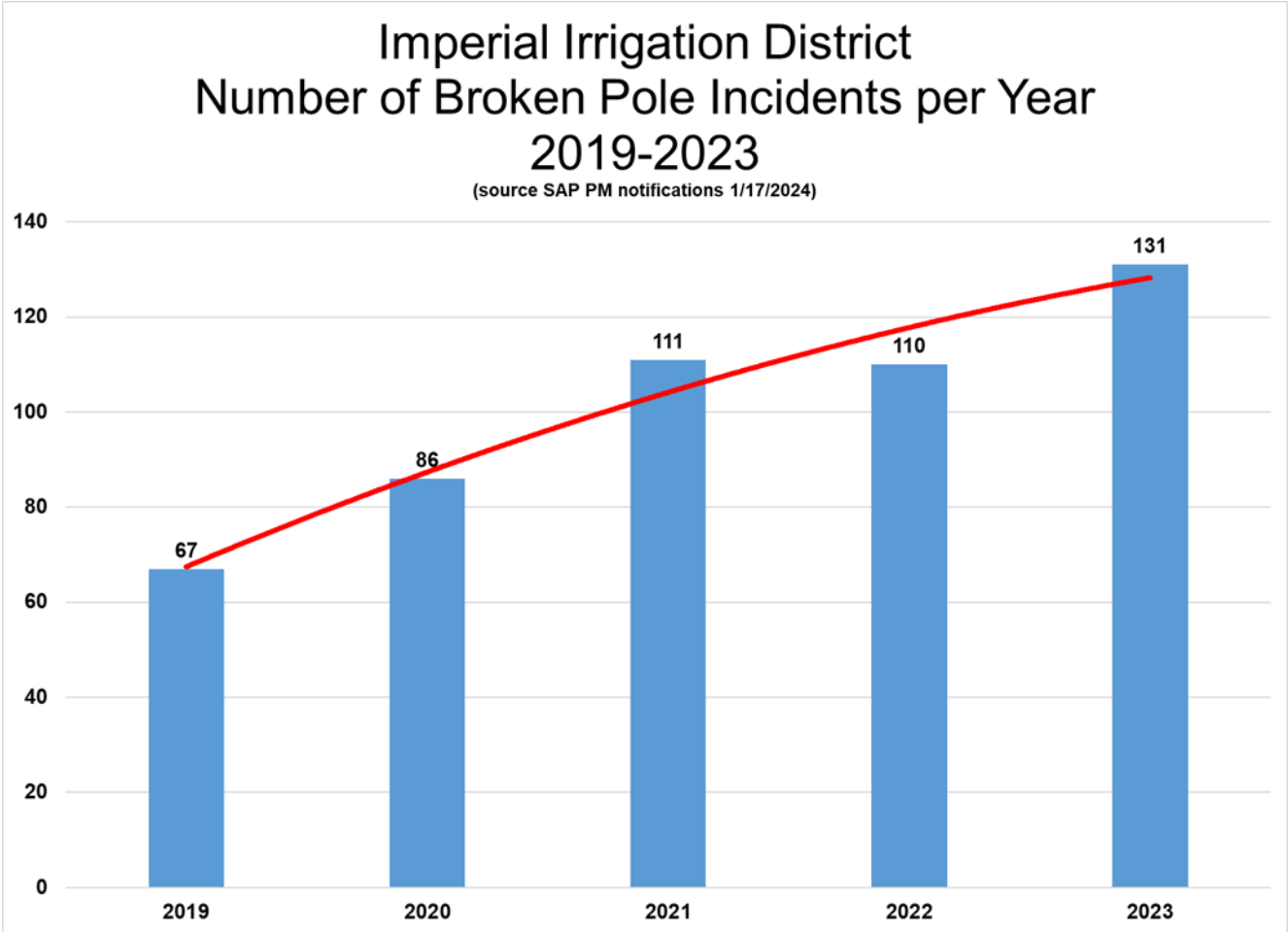
Requirement: Track the Number of Lines Down Incidents – The metric is the total number of lines down incidents reported for the calendar year; the intermediate goal is a declining rate with a final goal of zero.

Status:

The graphs below show the lines and poles down incidents reported.



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Performance Metrics-Imminent Threats

Requirement: Track the Number of Imminent Threat Violations – The metric is the total number of Imminent Threat Violations reported for the calendar year. The goal is zero (0) Imminent Threat Violations for the calendar year

Status:

Regulation 23 procedure was approved in 2022, and development of a mobile application to report incidents was completed in 2023. Currently the application is in final testing and is expected to be commissioned late Q1 2024.

Expect Imminent Threat Violation metric report for the 2024 report.

Performance Metrics- Encroachments

Requirement: Track the Number of Encroachment Violations – The metric is the total number of Encroachment Violations reported for the calendar year; The number of Encroachment Violations metric goal is zero.

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Status:

Regulation 23 procedure was approved in 2022, and development of a mobile application to report incidents was completed in 2023. Currently the application is in final testing and is expected to be commissioned late Q1 2024.

Expect Imminent Threat Violation metric report for the 2024 report.

Conclusion

Imperial Irrigation District is committed to providing safe and reliable power to the customers we serve. IID continues to pursue operational and infrastructure improvements with components that help reduce fire ignition.

IID welcomes comments and improvement suggestions from the California Wildfire Safety Advisory Board.

Verification

I am an officer of the Imperial Irrigation District, and am authorized to make this verification on its behalf. The statements in the foregoing document are true of my own knowledge.

I declare under penalty of perjury that the foregoing is true and correct.

Executed on July 26, 2022, at Imperial, California.

MATTHEW SMELSER
Energy Manager
Imperial Irrigation District