



Annual Safety Culture & PSPS Briefing

August 20, 2026



Presenters & Panelists



David Barrett
Chief Compliance Officer, Sempra
Board Safety Committee Chair



Brian D'Agostino
Vice President, Wildfire and
Climate Science, SDG&E



Kevin Geraghty
Chief Operating Officer &
Chief Safety Officer, SDG&E

SDG&E Board Safety Committee

Topics reviewed by the Safety Committee during the past 12 months include:

Contractor Safety Performance and Accountability

Out-of-Service Transmission Lines in the HFTD

2026 CPUC Safety Culture Assessment

Safety Performance Metrics and Trends

Gas Emergency Preparedness and Response

Wildfire Safety and SDG&E's 2026-2028 Wildfire Mitigation Plan

Pipeline Safety and Integrity Management

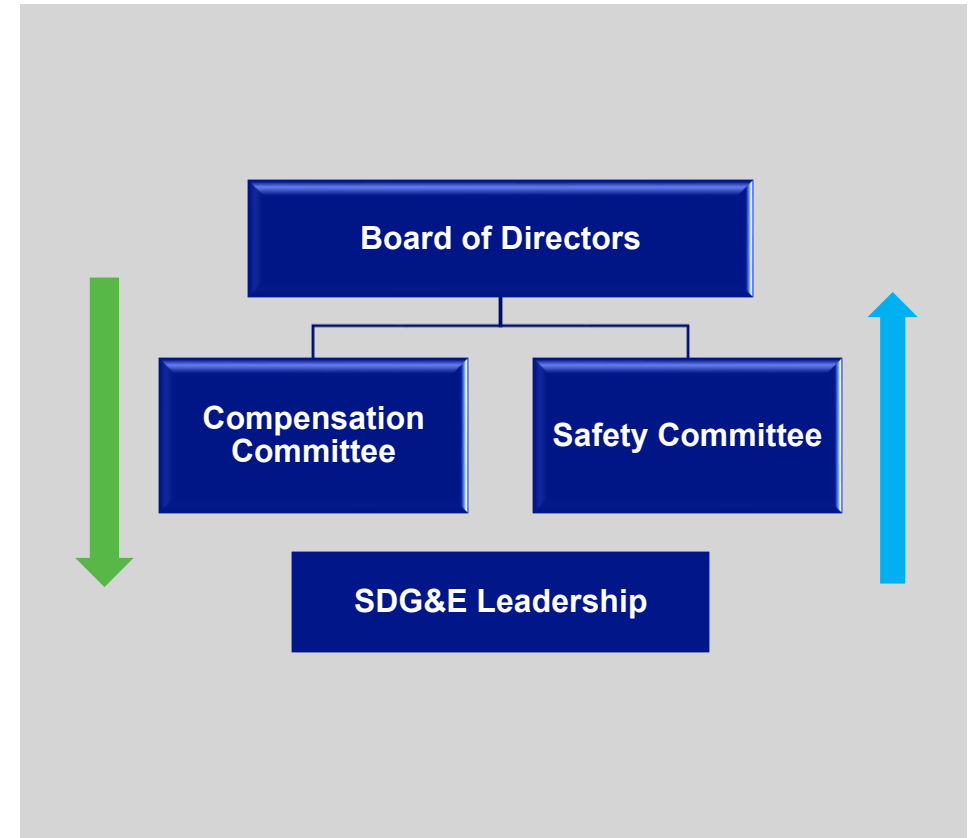
Gas Safety Regulatory Compliance

Driving Safety and Fleet Risk Management

SDG&E's 2024 OEIS Wildfire Safety Culture Assessment Results

Large Pole Transportation Safety

Annual Review of Safety Committee Charter



SDG&E's Board Safety Committee



- Oversees company safety culture, goals and risks
- Monitors risk management and oversight programs related to safety matters
- Monitors the company's safety performance metrics
- Engages with external partners through the SDG&E Wildfire Safety Community Advisory Council
- Safety Committee Chair reports to the full Board of Directors on safety matters addressed by the Committee

Our Safety Commitment is Value-Driven

Safety is a Company core value and foundational to our business

SDG&E continues to pursue system enhancements, technologies and partnerships that:

- Strengthen and protect our electric and gas infrastructure
- Enhance data analysis and risk modeling to support proactive mitigation measures
- Support a strong safety culture that promotes organizational learning and workforce engagement
- Prepare communities for increasing hazards brought on by climate change

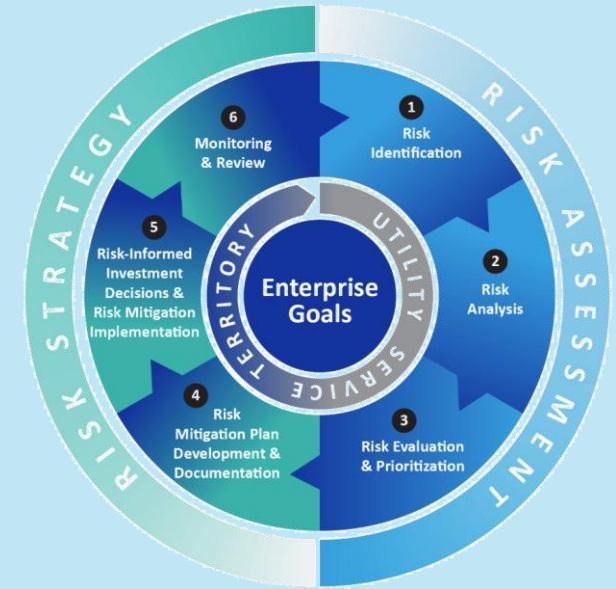


Integrated Safety & Risk Management Framework

SDG&E operates within a Safety Management System that provides the framework for **early risk identification** and **continuous safety improvement**.

SDG&E's Safety Management System applies a comprehensive definition of safety that encompasses:

- Employee & Contractor Safety
- Public & Environmental Safety
- Asset, System & Cyber Safety
- Mental Health, Wellness & Psychological Safety



Established Board Safety Committee
Governance & Wildfire Safety
Community Advisory Council

OEIS Safety Culture
Assessment &
Certification

Increased Board Review of
Public & Operational
Safety Metrics

Ongoing
Benchmarking,
Measurement & Review

'19

'20

'21

'22

'23

'24

'25

Enactment of
AB 1054

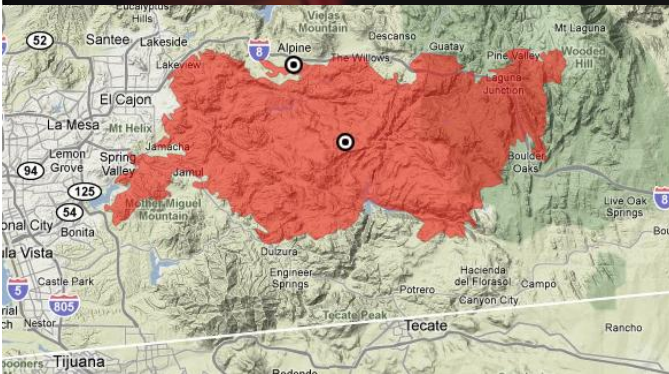
Implemented Safety
Management System
Framework

Risk Informed
Safety Management
Action Plan

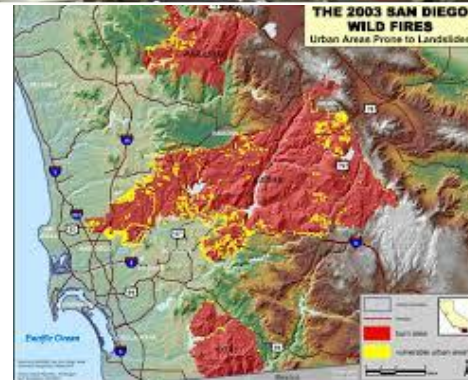
Enhanced Incident
Review & Sharing of
Lessons Learned

Our Region's History Drives Our Journey

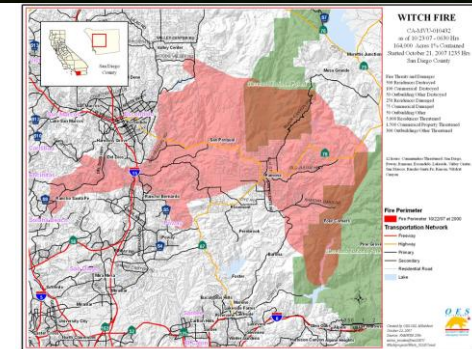
Laguna Fire (1970)



Cedar Fire (2003)



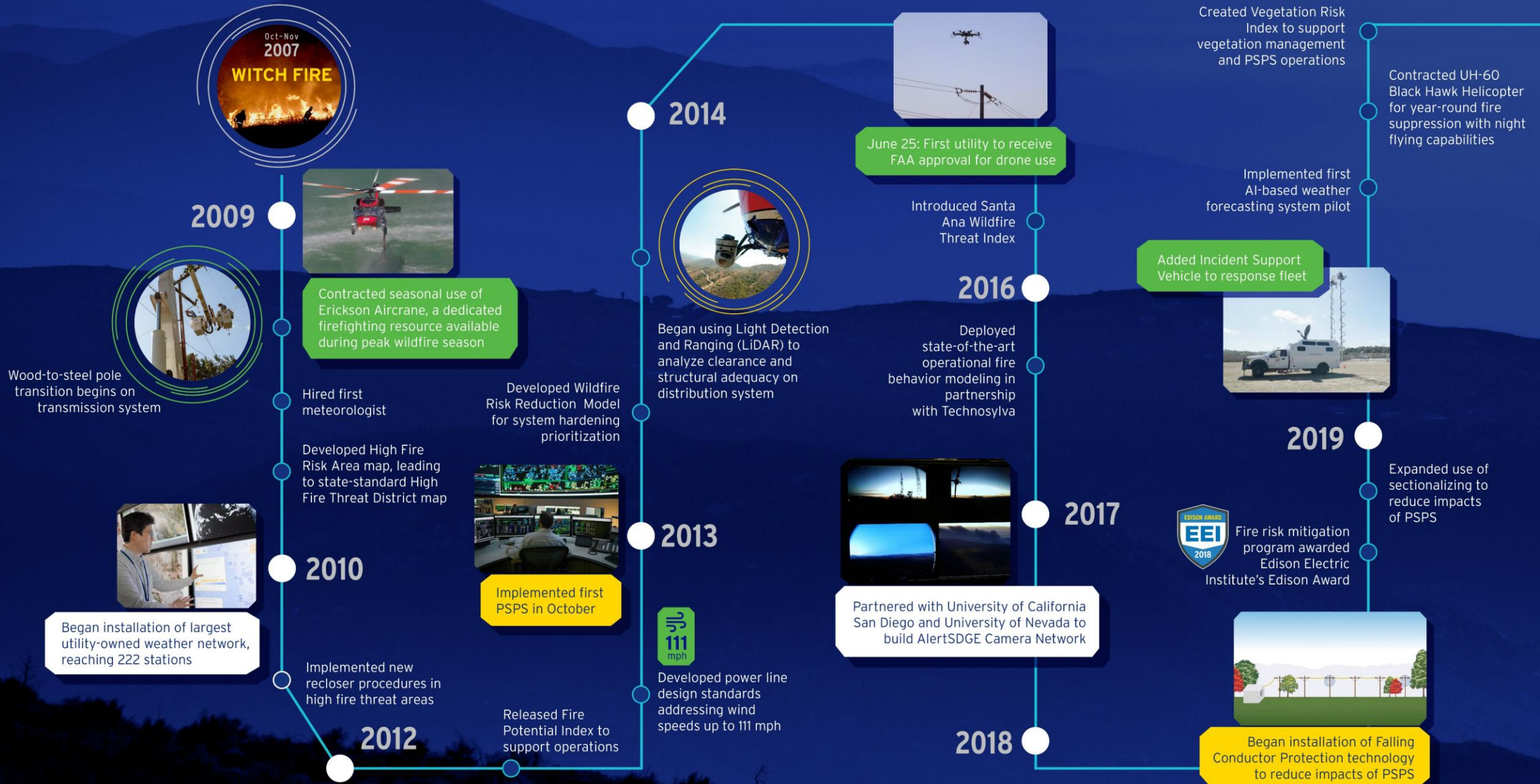
Witch Fire (2007)



*San Diego continues to have **the highest wildfire risks of any county in the United States****

<https://www.fema.gov/about/openfema/data-sets/national-risk-index-data>

SDGE™ WILDFIRE RESILIENCY JOURNEY



2020



Initiated drone inspection program to obtain enhanced inspection data concerning the electric system

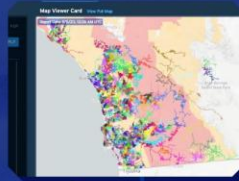


Started Strategic Undergrounding program



Rolled out Alerts by SDG&E mobile app for real-time updates on weather conditions and PSPS

Deployed Shelter Valley and Butterfield Ranch Microgrids



Began development of Wildfire Next Generation System (WINGS)



Began goat grazing pilot to clear brush around electric infrastructure



Launched mobile energy storage for Community Resource Centers and electric vehicle charging

Launched Public Safety Partner Portal

Implemented Artificial Intelligence smoke detection algorithm

2021

2022

Completed Ramona Microgrid

Completed Cleveland National Forest hardening project

2023

Unveiled Public Safety Partner Portal mobile app



Awarded Bertha Lamme Top Innovator Award by Public Utilities Fortnightly for WINGS

Developed WINGS Ops which assigns risk scores to grid segments, informing investments in power line undergrounding and hardening strategies

2024

Expanded customer resources and offerings in hardest hit communities during extended Public Safety Power Shutoffs

Safeguarded communities during the 2025 Southern California firestorms through targeted Public Safety Power Shutoffs in extreme fire conditions

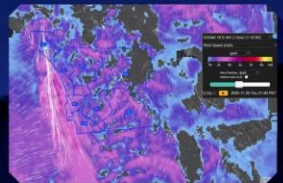
Expanded AI smoke detection capabilities to entire camera network with TIME Magazine naming it a Top Innovation of the year



Unveiled the Wildfire and Climate Resilience Center to serve as a centralized hub for SDG&E's wildfire safety and climate resilience strategy and Emergency Operations Center



Strengthened partnership with Scripps Institution of Oceanography and the San Diego Supercomputer Center to enhance AI integration in weather forecasting models



Launched Risk-Informed Drone Inspection program



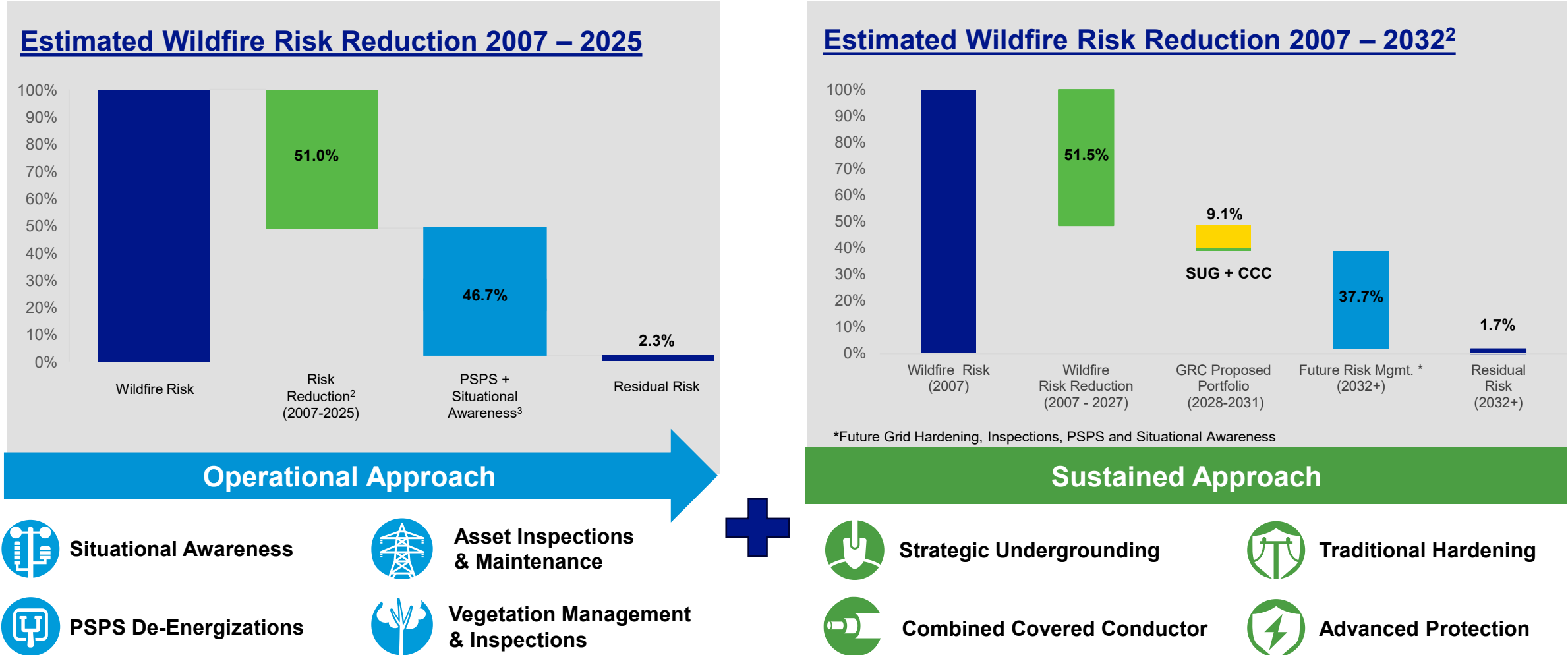
2025

2026



Sustained Wildfire Risk Mitigation Reduces PSPS Impacts

SDG&E's risk-informed grid hardening strategy delivers sustainable wildfire risk reduction, reduces dependence on operational controls, and minimizes PSPS impacts while maintaining safety, resiliency and affordability.



1) Includes System Hardening, Inspection, Vegetation Management, SRP/FCP/EFD (Sensitive Relay Profile, Falling Conductor Protection, Early Fault Detection). Overall risk reduction includes transmission + distribution. Future years includes distribution only.
2) Dependent on securing funding through regulatory filings
3) Managed risk through PSPS and Situational Awareness

Path to Long-Term Wildfire Risk Reduction

2007 – 2027

Grid Hardening

- 100% Transmission Hardening
- ~ 340 miles Undergrounded (SUG)
- ~ 280 miles of Combined Covered Conductor (CCC)

Continuous Monitoring

- ~9,000 Annual Drone Inspections
- ~18,000 Annual Detailed Asset Inspection
- ~485,000 Annual Vegetation Inspection
- 225 Weather Stations

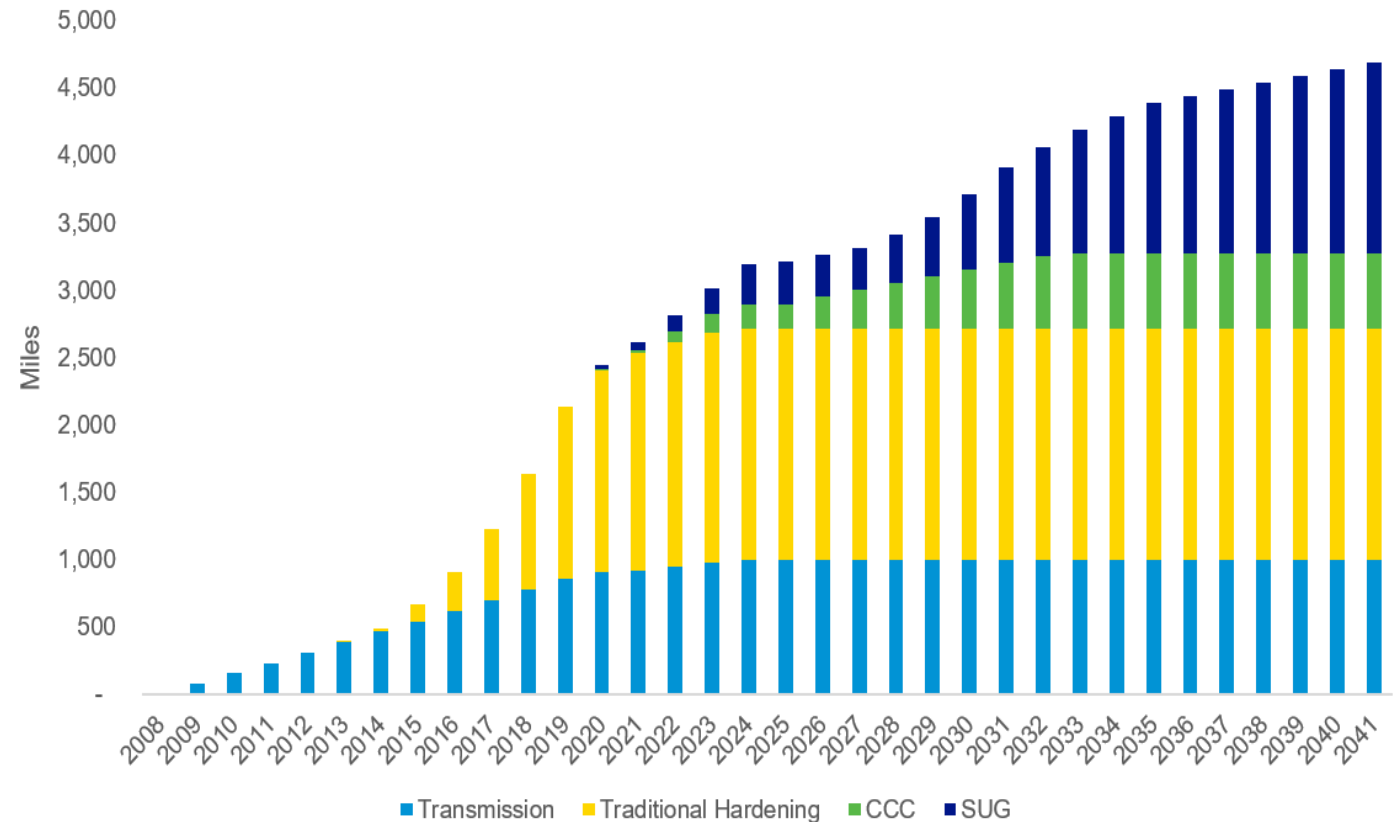
GRC 2028 – 2031

- 400 miles SUG
- 200 miles Combined Covered Conductor

EUP 2032+

- 500-1,000 miles SUG

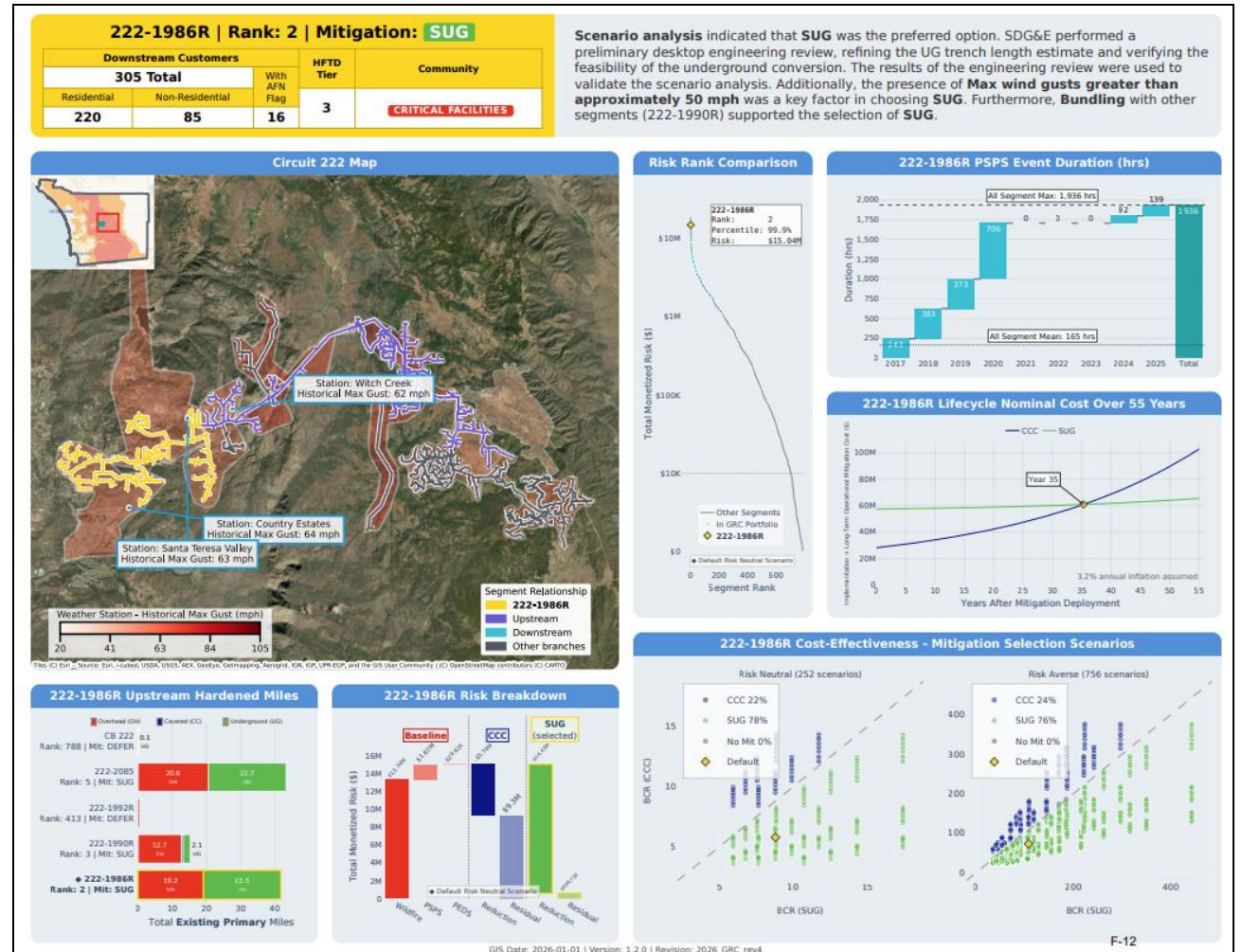
HFTD Overhead Hardening



Risk-Informed Segment Prioritization: Balancing Engineering Expertise, Risk Reduction and Cost

Proposed 2028-2031 investments include 400 miles of Strategic Undergrounding and 200 miles of Covered Conductor

- Segments are prioritized based on site-specific wildfire and PSPS risk reduction.
- Evaluated using cost-effectiveness metrics to maximize risk reduction per dollar invested.
- Considers engineering feasibility, constructability and system operational requirements.
- Selected through advanced risk-informed framework that directs resources to the highest-risk areas first.



Preventing Wildfire Every Day: Focus on the Fundamentals

Even as SDG&E advances new wildfire technology, it relies on foundational wildfire prevention measures to minimize ignition risk every day on every job in wildland areas.



Work Restrictions

Requirements scale with daily fire conditions and activities.



Tools & Equipment

Fire tools are on hand and ready to use.



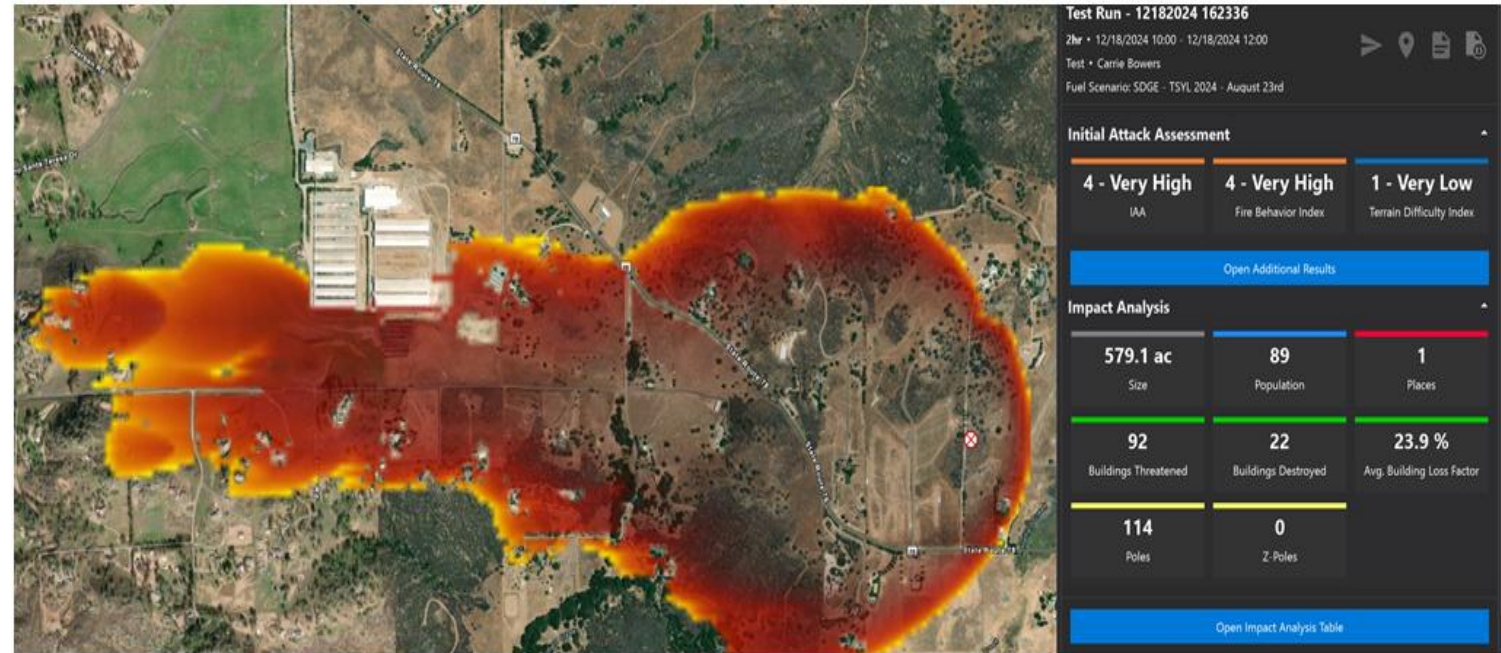
Training

Every person is trained before they work.

Preventing Wildfire Every Day: Real-World Example



On December 18, 2024, heavy equipment was performing rock breaking when an ignition occurred 35' from the activity. The crew had the right tools and was able to extinguish the fire before it spread.



The above illustration shows the potential impact had the fire not been extinguished. Based on a two-hour simulation, 579 acres would have burned and 22 buildings would have been destroyed.

CMP Program Enhancements – January 2026

Effective January 2026, SDG&E enhanced its Electric Distribution Corrective Maintenance Program (CMP) to support improved focus on higher-risk conditions, while maintaining alignment with GO 95.

Risk & Severity Tagging

Applied to all inspection conditions.

Every condition now carries a risk (potential fire, safety, reliability or compliance) and severity (high, moderate or low) tag, creating a consistent, data-driven basis for prioritizing corrective work.

Focus on Higher-Risk Conditions

Funding and field crews go where risk is highest.

Resources are directed first to the conditions that pose the greatest threat to safety and reliability.

Improved Backlog Management

Faster triage of higher risk and severity conditions.

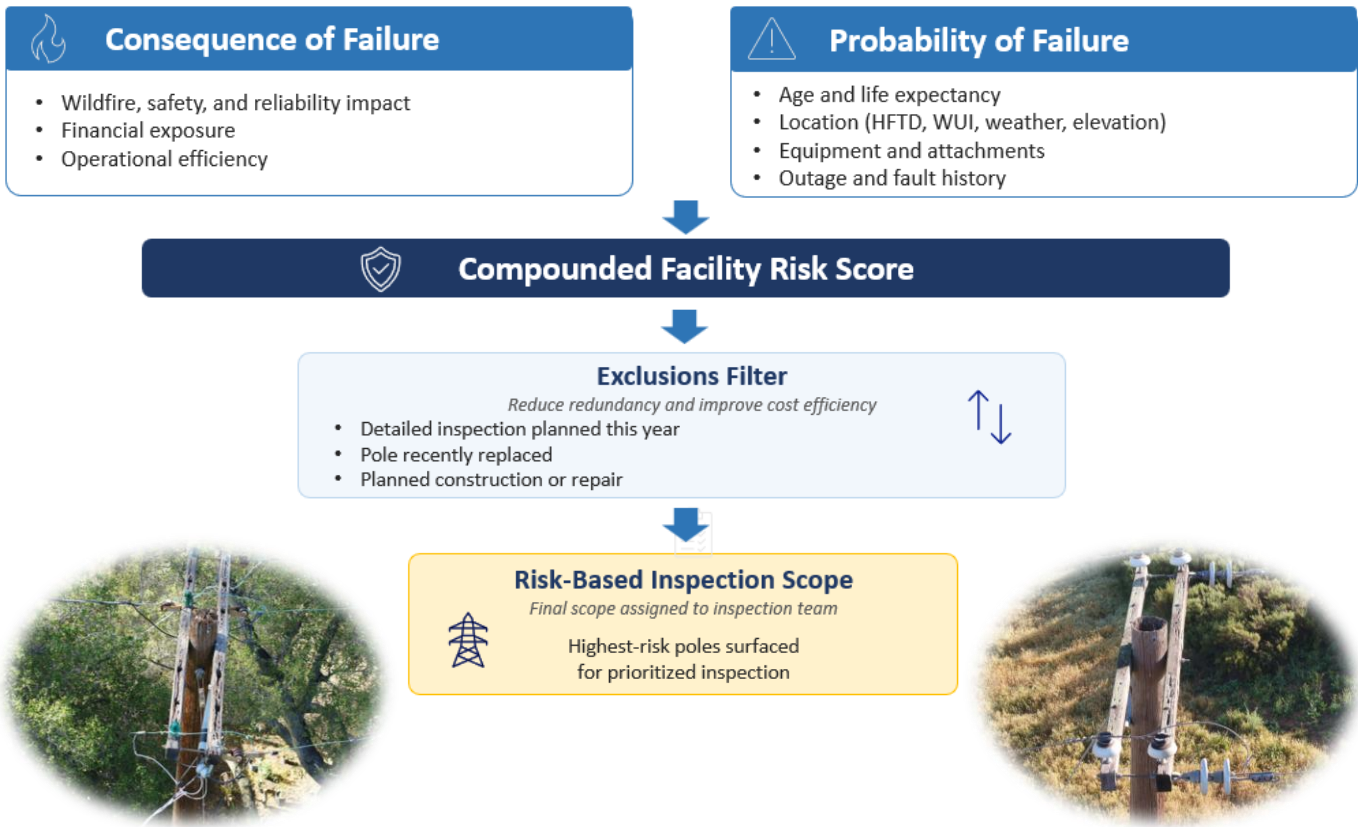
Risk & Severity tags speed remediation of the highest-priority items and steadily reduce the backlog.

The result is a risk-informed maintenance program that channels resources and investment toward the conditions that matter most.

Risk-Informed Drone Inspections (RIDI)

Risk-Informed Inspection Model

Inputs Updated Annually



Key Findings from 2025

Performance



RIDI identifies 8% more potential fire hazards than traditional CMP inspections



RIDI identifies emergency damages on average **32 months earlier** than traditional CMP detailed inspections



RIDI captured ~60% of total system risk by inspecting the top ~20% of structures (13.5k of 66k)



RIDI improves public safety by reducing outage potential to 17,777 customers through remediation of 26 emergency damages

RIDI Emergency Finding – 7/14/2026

Highlighting the value of risk-informed inspections

Pole replaced < 5 years ago
Last Detailed Inspection = 2025
Last Patrol = February 2026

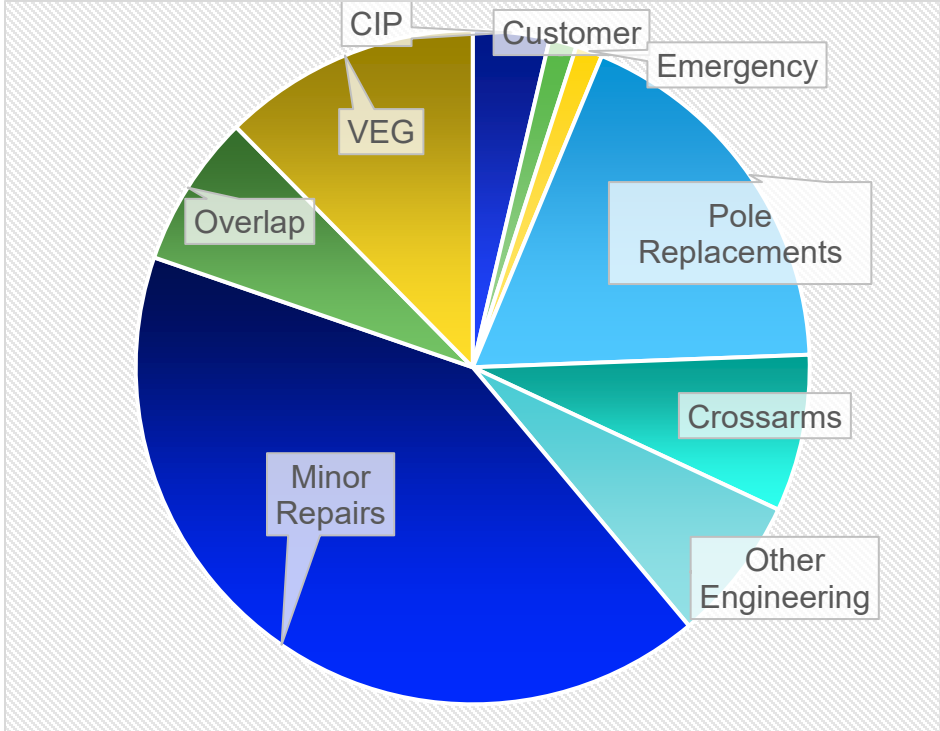
Located in a very rural area and while the damage is visible from the ground, time-based inspections would likely not have found this condition before failure.



Backlog Electric Distribution Issues in HFTD Prioritized

99.9% of repairs completed associated with issues identified through drone inspections performed on **all distribution poles** across the **entire HFTD** from 2019-2022.

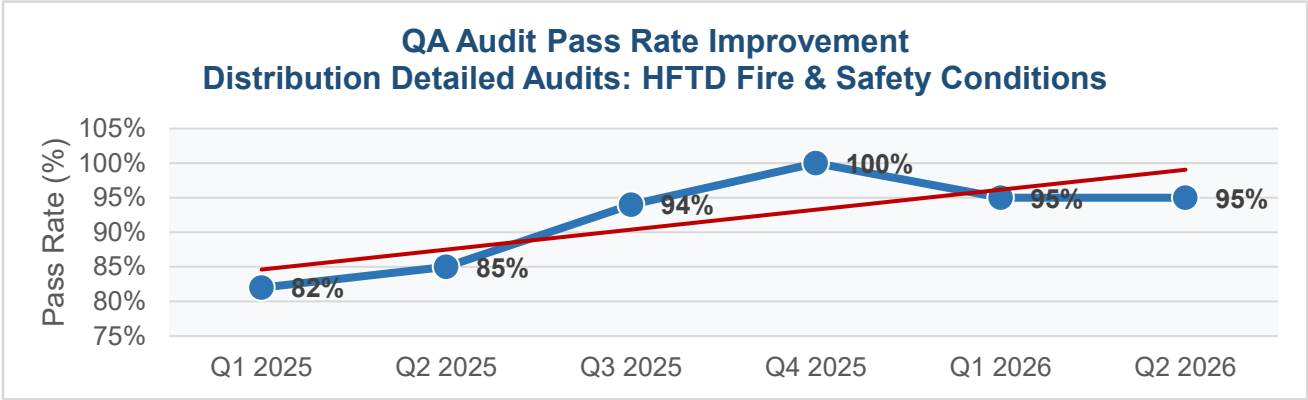
Description	Drone Investigation Assessment & Repair (DIAR) Backlog - Inspections Performed 2019-2022		
# of Poles Inspected	101,602		
Total Potential Fire Hazards Identified	26,055 poles with issues		
Emergency Issues Repaired	344		
Pole Replacements	5,193 Total	5,176 Complete	17 Pending
Other Issues	20,528 Total	20,508 Complete	20 Pending



Remaining repairs are associated with overlap with another Project or Program. These will be closed by the other project to reduce duplication of effort and improve efficiency.

Independent Quality Assurance of Detailed Pole Inspections

Results of our Improved QA of Detailed Inspections for Electric Distribution Poles



“All Clear” Inspections

5% Random Sampling of inspections that had no findings



Timely & Independent

Within 30 days of the inspection completion month, audits are conducted by independent, dedicated auditors



Independent Audit Result

93%

Average audit pass rate since the start in January 2025

Updates to Existing Technologies

Moving from fragmented updates to a single, trusted operating picture for customers, partners and responders



Customer notifications

Updated notification and messaging work is intended to improve and simplify communication content for customers and the public. During PSPS activity, SDG&E uses in-language notifications, a dedicated web landing page, the SDG&E Today blog, local media, social channels, CBO amplification and Alerts by SDG&E.



Public Safety Partner Portal

The Public Safety Partner Portal / Mobile Application is SDG&E's primary situational-awareness tool and resource for public safety partners, with exercise scenario data, push notifications, GIS PSP Data Share and Cal OES notification form integration used during 2026 exercises.



Portal product roadmap

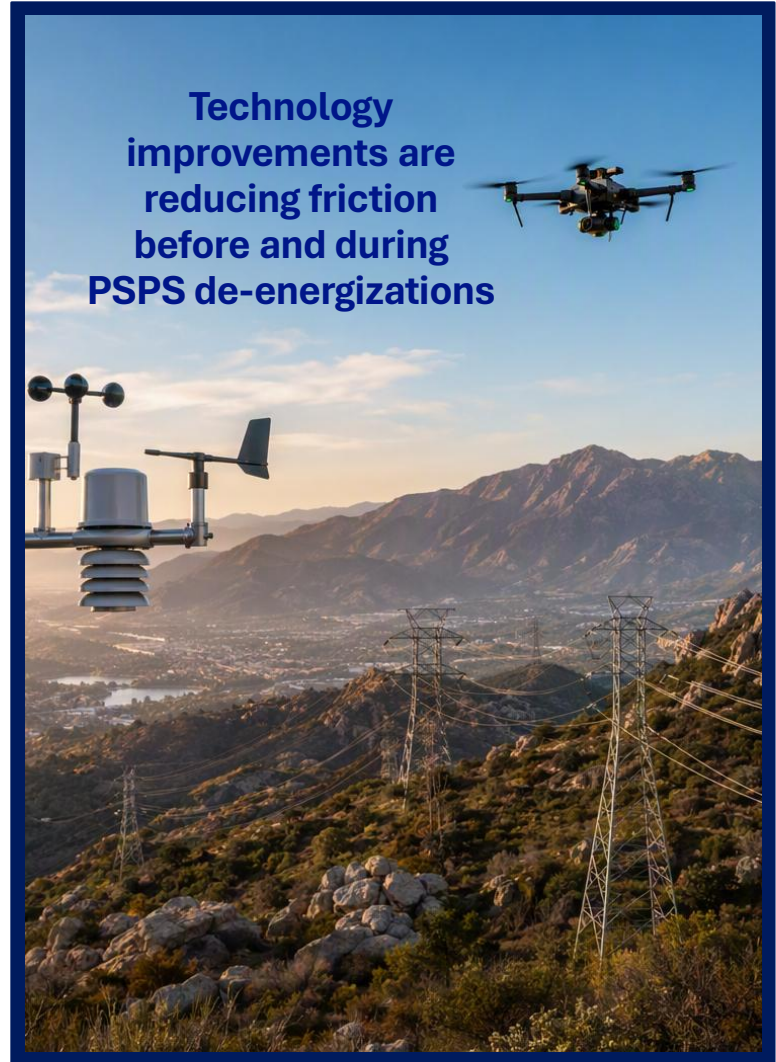
2026 and beyond: CBO access tier; improved data architecture to keep dashboard, impacted circuit list and summary widget in sync; full notification text in the activation timeline; bounce-report self-service; gas feature enablement; planning section chief role.



Emergency technology foundation

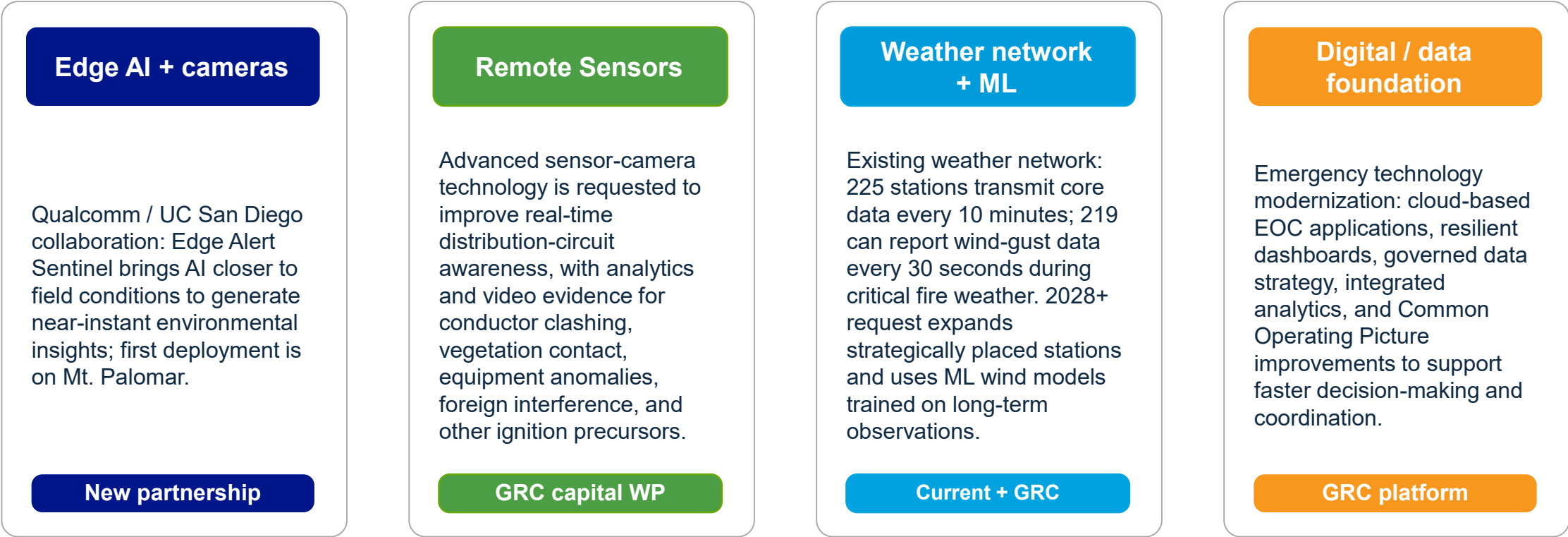
2028 GRC emergency preparedness work includes cloud-based EOC applications, governed data strategy, integrated analytics capabilities, WCRC / backup EOC enhancements, alternative communications and stronger Common Operating Picture support.

Technology improvements are reducing friction before and during PSPS de-energizations



Emerging Technologies

SDG&E is pairing proven situational awareness with targeted next-cycle innovations that improve detection, validation, analytics and response



PSPS Overview & Comparison

SDG&E has not experienced PSPS events in 2026

Year	Events	Counties Impacted	Customers Impacted	Missed Notifications	Average Outage Duration	Average Restoration Time
2019	3	San Diego	48,740	N/A	30 hours, 42 minutes	N/A
2020	5	San Diego	100,724	49	29 hours, 9 minutes	N/A
2021	2	San Diego	5,858	6,983	28 hours, 13 minutes	3 hours, 15 minutes
2022	0	N/A	0	N/A	N/A	N/A
2023	1	San Diego	0	1,109	N/A	N/A
2024	2	San Diego, Imperial, Riverside	53,185	6,330	39 hours, 13 minutes	5 hours, 54 minutes
2025	2	San Diego, Orange, Imperial, Riverside	52,993	12,266	37 hours, 20 minutes	3 hours, 20 minutes

Community Resource Center (CRC) Plan

Expanded CRC Network

- Established a Tribal Mobile CRC in Mountain Empire, increasing essential resource accessibility, strengthening community engagement and expanding reach to tribal communities.
- Continue to monitor community feedback and emerging needs to inform potential expansion of additional CRCs in impacted areas.

Notifications & Signage

- Improved CRC awareness through updated customer notifications and PSPS social media content, guiding customers to sdge.com/resourcecenters for available CRCs.
- Increased CRC visibility with additional signage, making open locations easier for customers to find and access.

AFN Resources

- Strengthened AFN customer support by offering sensory kits equipped with weighted blankets, noise-canceling headphones, and tactile tools, creating a more accessible and supportive environment for individuals with sensory needs.



Sensory Kit

Critical Facilities & Critical Infrastructure (CFCI) Plan

Established CFCI Plan continues to support customer preparedness in 2026

PSPS Pre-Season Planning & Preparations

Annual Outreach & CFCI List Maintenance



- Proactive annual CFCI outreach to:
 - Update current emergency contacts
 - Assess customer resiliency capability
 - Understand backup generation needs

Pre-Season Webinars



- Conduct two pre-season PSPS Preparedness webinars with CFCI covering these topics:
 - Seasonal weather outlook
 - Customer notifications
 - Wildfire Mitigation Measures
 - Stationary Emergency Backup Engines

K-12 Schools Backup Power Resiliency Initiative



- Partnered with San Diego County Office of Education on school PSPS backup power preparedness, resulting in a streamlined process to dispatch temporary generation to the most impacted schools
- Longer-term backup power and resiliency support offerings are in development

Notification Plan, Education, and Outreach

Ongoing refinements to notification plans:

- New State-of-the-Art Outage Map
- Enhancements to CNS system to better facilitate PSPS Notifications
- Notifications updated to add additional clarity on outage and CRC timing details
- Annual territory-wide notification test

Year-round preparedness messaging:

- Resources and preparation tips
- Notification information
- Dedicated educational campaigns to critical facilities and customers with Access & Functional Needs (AFN)

Ongoing outreach to our communities:

- Partnerships with 200+ community-based organizations
- Wildfire Safety Fairs (4) and “mini” Wildfire Safety Fairs (65)
- Incorporated tribally led workshops to deliver culturally aligned emergency preparedness education + on-site program enrollment support

Enhancing partnerships and offerings:

- New hotel discount offering launched in Q1 of 2026

New State-of-the-Art Outage Map



PSPS Lessons Learned and Implementation in 2026

2025 lessons learned drove targeted Improvements in communications, shared circuit coordination, technology and customer support, resulting in enhanced PSPS readiness and operational resilience in 2026. The Continuous Improvement program has closed the vast majority of PSPS corrective actions from 2025.

Completed Improvements



SDGE has enabled call branding to ensure calls are not listed as spam.



SDGE enhanced patrolling procedures to accelerate customer restorations, including rapid patrol deployment once conditions allow and contingency plans for partial circuit restoration.



SDGE enhanced the public safety partner experience to improve visibility into PSPS impacts and streamlined communications to commercial and business customers.



Customer notification system enhancements improved the effectiveness, flexibility and reliability of customer communications by enabling customizable messaging, automating targeted follow-up outreach for Medical Baseline customers and expanding positive contact recognition to include voicemail delivery.

Committed to Continuous Learning, Innovation & Improvement

Advancements in safety are value-driven.

- Embracing innovative technologies
- Fostering a culture of safety
- Continually reviewing, assessing and validating

Together, we have the power to drive change, inspire innovation and set new standards of safety excellence.

Our journey continues...





APPENDIX

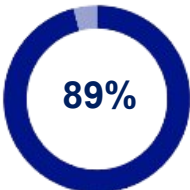
Annual Continuous Monitoring

Q1-Q2 2026 progress across asset and vegetation management inspection programs

Wood Pole Intrusive Inspections



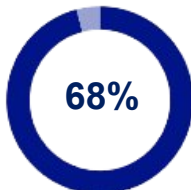
Target: 1,282
Actual: 1,138



Overhead Detailed and Patrol Distribution Inspections



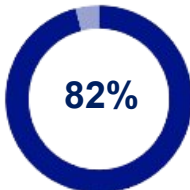
Target: 106,602
Actual: 72,472



Overhead Detailed and Patrol Transmission Inspections



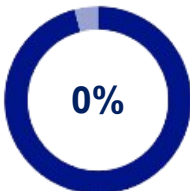
Target: 9,901
Actual: 8,102



Infrared Inspections



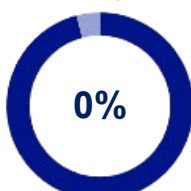
Target: 7,294
Actual: Begin in Q3



Drone Inspections



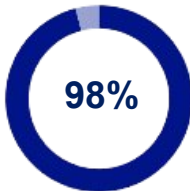
Target: 9,000
Actual: Begin in Q3



Weather Stations



Target: 217
Actual: 213



Veg Management Inspections



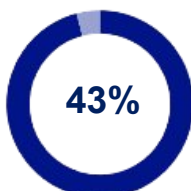
Target: 485,000
Actual: 292,400



Substation Inspections

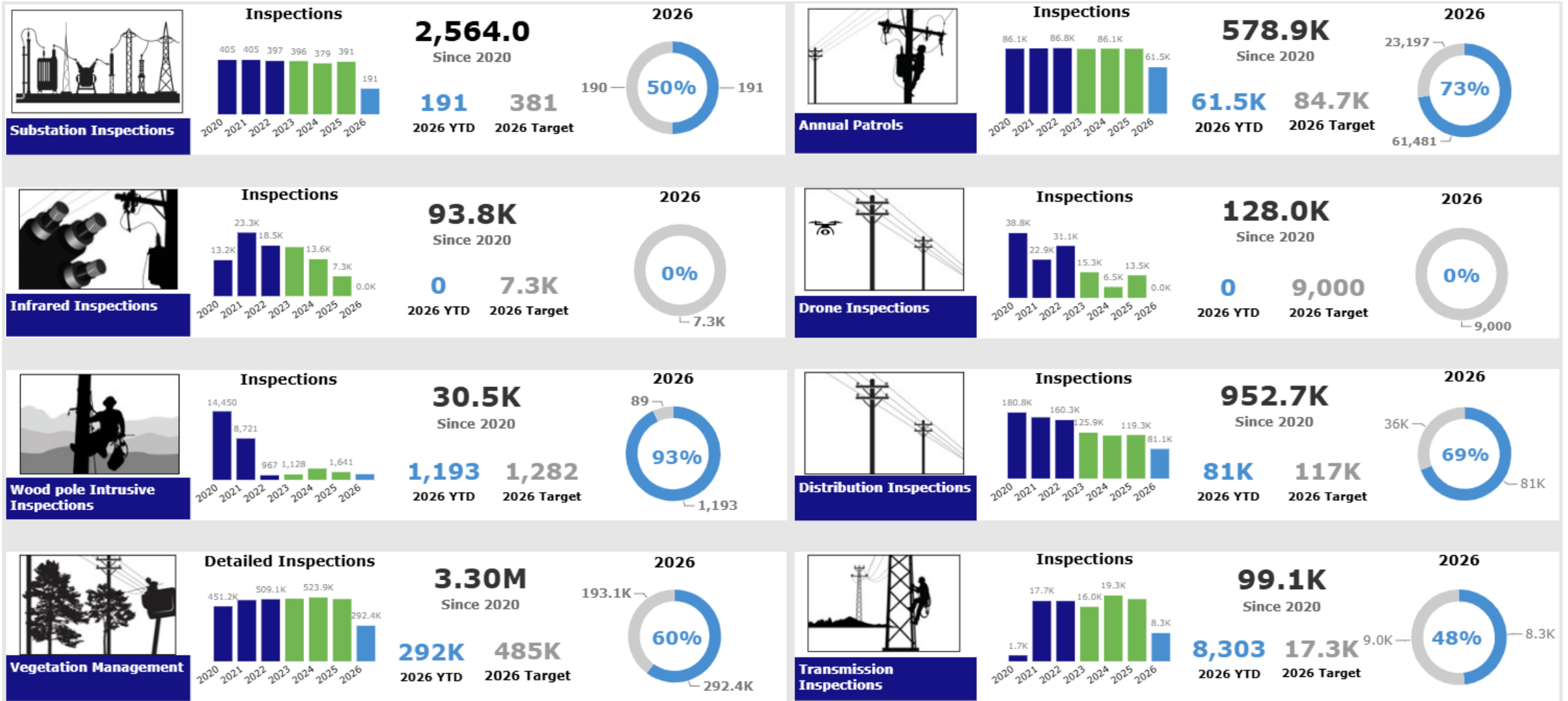


Target: 381
Actual: 165



Annual Continuous Monitoring

Wildfire Mitigation Program Performance 2020-To Date



Employee & Contractor Safety Performance

January 1, 2026 – June 30, 2026

Rate = (# Incidents X 200,000 / hours worked)

2026 Mid-Year Safety Performance Overview: SDG&E has experienced zero employee or contractor serious injuries or fatalities (SIF) during the first half of 2026. Year-to-date 2026, SDGE has demonstrated 36% improvement in employee total recordable incidents compared to the first half of 2025 and a 54% improvement in its contractor total recordable incident rate compared to the first half of 2025. All incidents are reviewed for SIF-potential with increased focus on high energy hazard awareness and mitigation.

Safety Culture		Near Miss Submittals				Proactive Safety Engagement			
		Employee		Contractor		Field Safety Engagements		Driving Observations	
	YTD 2026	161	●	74	●	86	●	864	●
	2025	445	●	257	●	166	●	1,879	●
	2024	447	●	229	●	126	●	1,857	●

	Employee Safety								Contractor Safety							
Period	SIF Rate		P-SIF Rate		TRIR		LTI Rate		SIF Rate		P-SIF Rate		TRIR		LTI Rate	
YTD 2026	0.00	●	0.29	●	1.21	●	0.34	●	0.00	●	0.26	●	0.62	●	0.26	●
2025	0.02	●	0.07	●	1.59	●	0.18	●	0.00	●	0.30	●	1.05	●	0.30	●
2024	0.02	●	0.21	●	1.31	●	0.40	●	0.11	●	0.11	●	0.83	●	0.41	●
2023	0.00	●	0.19	●	1.48	●	0.39	●	0.05	●	0.17	●	0.61	●	0.26	●



Positive year over year trend; continued safety improvement



No significant change (<+/- 10%) in year over year trend; opportunity for improvement



Negative year over year trend (>+/- 10%); needs attention for safety improvement

Public Safety & Operational Performance: January - June 2026									
CPUC Reportable Metric	YTD 2026		2025		2024		2023		Overall Performance
Public Serious Injuries and Fatalities (# Serious Injuries # Fatalities)	1 0		1 0		2 1		2 1		No public fatalities YTD 2026. One public serious injury YTD 2026. In March, a worker handling metal flashing made contact with a 12kV wire while working on a roof and was hospitalized for their injuries.
Fire Ignitions (# CPUC-reportable ignitions)	9		12		31		16		Nine CPUC reportable fires YTD 2026. Fire activity in June was tepid over San Diego County due to the lack of extreme heat events or problematic lightning. An anomalously cool pattern will likely curtail fire activity in early July as well. Field reports indicates that fine fuel loading is slightly above normal. Near normal fire potential is indicated, though if significant moisture does arrive in the coming weeks, below normal potential may be indicated in future outlooks.
T&D OH Wires Down – including secondary & MEDs (# instances)	148		361		286		462		148 Total Wire Down incidents experienced YTD, an approximately 40% decrease when compared to the same time period in 2025. Elevated counts in early 2025 were largely driven by Santa Ana wind events that triggered Public Safety Power Shutoffs.
Electric Emergency Response (Average time in minutes)	42.15		51.58		49.05		47.15		Year-to-Date results remain consistent with historical figures. Decreased out-of-district responses have improved overall response times YTD 2026.
Gas Emergency Response Time (Average time in minutes)	26.81		26.81		28.10		28.30		Steady, consistent performance attributable to a dedicated overnight shift and improved dispatch times. Improved times over the last few months are primarily due to less priority 1 orders than same period in 2025.
Gas Dig-ins (Third party dig-ins per 1,000 USA tickets)	1.10		1.04		1.01		0.94		Steady, consistent performance attributable to SDGE’s Damage Prevention Analysts, who continue to drive outreach efforts and increase field contact participation to proactively prevent damages. SDGE remains focused on expanding outreach and strengthening field contact engagement, especially in the summer months, to sustain positive results and continue improving damage prevention performance.
Control Time – Gas Shut-in Time Mains (Median time in minutes)	477		411.56		399.25		416.0		Shut-in times for both mains and services continue to be a focal point of control methods and strategy. SDGE’s overall hazardous leaks have decreased in 2026, resulting in less responses and recordable hazardous leaks. All hazardous leaks with excessive shut-in times are reviewed and discussed with leadership and field crews monthly to identify opportunities for improvement.
Control Time – Gas Shut-in Time Services (Median time in minutes)	71		86.14		90.50		88.58		

Safety Metric Definitions

Metric	Definition
Driving Observation	A documented observation by a supervisor, Behavior-based Safety (BBS) observer, peer or other observer of an employee who drives a company vehicle in the performance of their work
Field Safety Engagement	A documented observation during a field visit focused on identifying high-energy hazards and assessing direct controls
LTI (Lost Time Incident)	OSHA-recordable injury or illness resulting in days away from work
LTI Rate	The number of lost time incidents per 100 full-time employees
Near Miss	An unplanned event, risk or hazard that did not result in injury, illness or damage, but had the potential to do so
OSHA Rate (TRIR)	Also known as Total Recordable Injury Rate (TRIR), the rate of OSHA recordable incidents per 100 full-time employees
OSHA Recordable Incident	Injury or illness exceeding first aid level of care and meeting OSHA recordability criteria
pSIF Incident	An incident with a release of high energy in the absence of a direct control where a serious injury or fatality (SIF) is not sustained
pSIF Rate	The number of pSIF incidents per 100 full-time employees
Serious Injury and Fatality (SIF)	A serious injury or fatality per Cal/OSHA definitions
SIF Rate	The number of SIF incidents per 100 full-time employees

SDGE 2024 OEIS Safety Culture Assessment

Assessment Report issued by Energy Safety in Dec. 2025

- Found that continued progress is evident, yet there are several areas for improvement

Management Self-Assessment

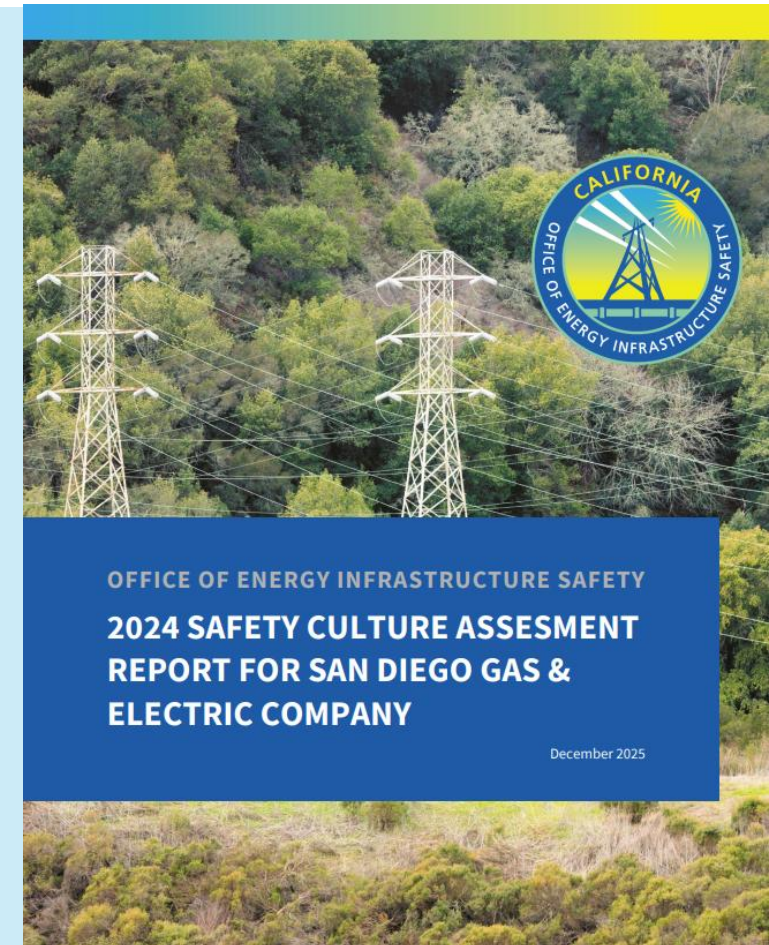
- SDGE rated itself at the highest level of maturity across all 22 questions

Workforce Survey

- Generated positive results; however, all decreased slightly from 2023
- 4.25 overall response score; 4.35 in 2023

Recommendations for improvement

- On January 9, 2026, SDG&E agreed to implement all five recommendations
- Quarterly Notification Letters submitted to Energy Safety



SDG&E exhibited continued growth and commitment to advancing its electric operations' safety culture

2024 OEIS Safety Culture Assessment Report Recommendations



Understand Performance Pressures

Findings:

- Presence of shortcuts and distractions;
- Operational demands may undermine safety

Recommendations:

- Solicit feedback from frontline employees and contractors
- Reinforce stop work authority
- Clear, consistent leadership messaging



Address Public Interaction Risks

Findings:

- Steps have been taken to reduce risk
- Remains a primary safety hazard

Recommendations:

- Enhance strategies to mitigate public interaction risk
- Common issue for all CA IOUs; Coordinate with PG&E and SCE



Understand Safety Culture Perception Gap

Findings:

- Mgt. Self Assmt. and Workforce Survey demonstrate misalignment and gap

Recommendations:

- Investigate reasons for Workforce Survey decline



Workforce Engagement in Safety Reporting

Findings:

- Workforce Survey responses indicate slight decline in psychological safety

Recommendations:

- Analyze whether culture perception is leading to decreased reporting
- Propose leadership actions to increase event reporting
- Encourage workers to report mistakes



Improve Contractor Engagement

Findings:

- Contractor response rate was 56%, compared to 75% employee response rate

Recommendations:

- Identify barriers to contractor engagement in Workforce Survey
- Close the gap between employee and contractor response rate
- Document actions taken to increase contractor participation

SDGE has developed cross-functional action plans to address each recommendation and implement improvements

SDG&E 2026 Goals: Operational & Safety Metrics

SDG&E's 2026 safety goals demonstrate ongoing commitment to safety across our entire organization and culture



Wildfire & PSPS System Hardening

Vegetation Contacts in High Fire Threat District with High FPI

PSPS Average Circuit Restoration Time (Hours)

Electric Overhead Fault Rate During Elevated Fire Potential

Cyber Safety

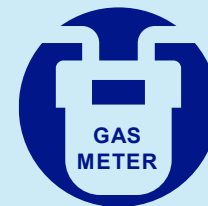


Lost Time Incident (LTI) Rate

Safe Driving Observations

Field Safety Engagements

Actionable Near Misses
Timely Completed



Gas Integrity Management

Damage Prevention Rate

P1 Gas Response Time

WiNGS-Ops | Temporary Construction & Compliance (TCC)

The TCC layer in WiNGS-Ops allows for identification of high-risk TCC poles and risk-based prioritization of corrective work to reduce the scope of PSPS events and support PSPS de-energization decision-making.

- **Map view of all TCC poles** with zoom capabilities along with quick reference to information by pole
- Visibility of **all high-risk TCC poles**
- **Ability to filter poles by risk level** within SDGE territory
- **Intelligent Image Processing (IIP) Imagery** for selected assets
- **Relevant data by pole**, including upstream SCADA device, field comments, Vegetation Risk Index (VRI) impact, historical 95th and 99th percentile wind gust speeds, EOC priority and circuit ID

The screenshot displays the WiNGS-Ops interface. On the left, a sidebar contains a 'Layers' panel with the following sections:

- Weather Layers**: Weather Stations (toggle off)
- PSPS Intelligence Layers**: TCC (toggle on), Governing poles (toggle on), Non-governing poles (toggle off)
- Wildfire Risk Estimates** (toggle off)
- Devices**: DPD (toggle on), S Breaker (toggle off), Switch (toggle off), Transformers (toggle on), Wings Ops Devices (toggle on)

The main map area shows a geographical view with various colored lines and points. A tooltip for 'TCC ID: P41551' is visible. Below the map, a table titled 'Showing governing poles only' is displayed. The table has columns: TCC GOV, EOC PRIO, TC C, PROGRAM, FAC ID, C ID, ISTLVL UPSTR..., WINGS DEVICE, COMMENTS, and STRUCTURAL ISSUE. The table contains five rows of data, all with 'True' for TCC GOV and 'High' for EOC PRIO.

TCC GOV	EOC PRIO	TC C	PROGRAM	FAC ID	C ID	ISTLVL UPSTR...	WINGS DEVICE	COMMENTS	STRUCTURAL ISSUE
True	High	---	ESH-ED	P125617	288	CB 288	CB 288	Comments	---
True	High	---	ESH-ED	P210169	212	212-758R	212-758R	Comments	---
True	High	---	ESH-ED	P25138	1081	CB 1081	CB 1081	Comments	---
True	High	---	ESH-ED	P271402	357	357-2049F	357-2049F	Comments	---
True	High	---	ESH-ED	P271402	357	357-2049F	357-2049F	Comments	---

Lessons Learned

Strengths

- **Effective joint coordination** across departments enabled strong situational awareness and resource planning.
- A **consistent customer focus** was evident as responders adapted practices to meet customer needs, including adding overnight and additional CRC support, and ensured medical baseline customers were contacted.
- Responders **strongly emphasized safety** by continuing to focus on fatigue, hydration and safe driving during extended activations.

Areas for Improvement

- **Customer Notification System requires enhancements** to enable a greater level of flexibility, granularity and usability to facilitate effective customer notifications.
- **Operational PSPS procedures need updating** to ensure effective coordination among teams and streamline processes across events.
- **PSPS Data Processes and systems require review and alignment** to meet internal and external reporting and operational requirements.
- **State Executive Briefing PowerPoint template is cumbersome and manual process to complete.** Joint IOU's met with CALOES to discuss changes and modification. The recommendations are pending a decision from CALOES.

SDG&E continues to meet with PG&E and SCE as a working group monthly to discuss lessons learned and best practices related to PSPS.

Key commonalities include:

- AFN support framework, in partnership with AFN leaders, to reduce risk and ensure safety for electric-dependent customers.
- Process refinements for coordinating amongst utilities and communicating with customers on shared circuits.