CPUC/ENERGY SAFETY PUBLIC MEETING ON SAFETY

Timothy O'Toole Chair, SCE Safety and Operations Committee; Board Director, SCE

Jill Anderson

Executive Vice President of Operations, SCE

David Heller

Chief Risk Officer, SCE; Vice President, Enterprise Risk Management & Insurance and General Auditor, SCE

Andrew Martinez

Chief Safety Officer, SCE; Vice President of Safety, Security, and Business Resiliency, SCE

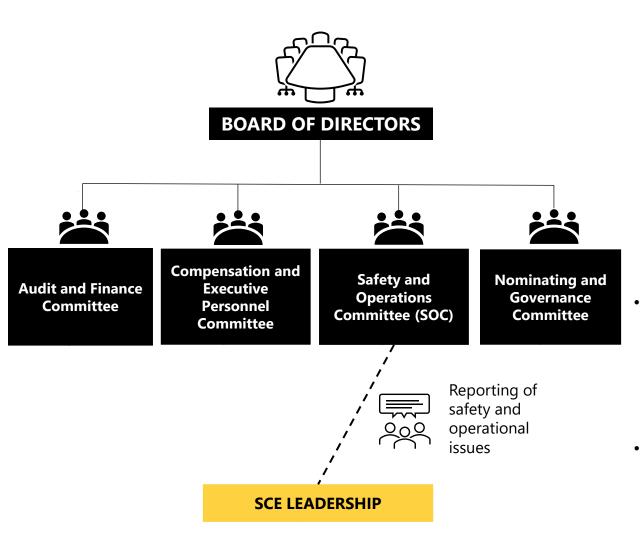
September 14, 2022



SAFETY IS INTEGRATED INTO OUR BUSINESS THROUGH OUR VALUES AND MISSION

MISSION To safely provide re	liable, clean and afford	dable energy to our customers
VALUES	RISK-INFORM	MED SAFETY FOCUS AREAS
Safety Integrity	Public Safety	 Reduce risk of significant wildfires Maintain/replace assets to avoid hazardous failures Create awareness of potential hazards
Excellence Respect	Worker Safety	 Help avoid serious injuries and fatalities through enhanced data analytics and safety programs Better manage our contractors to improve safety, quality and compliance
Continuous Improvement Teamwork	Safety Culture	 Evolve safety culture maturity Improve leader ownership and accountability

CORPORATE GOVERNANCE



- Safety and Operations Committee (SOC) oversees SCE's safety performance, culture, operational goals, safety and operational risks, and significant safety-related incidents involving employees, contractors or members of the public
- SOC meets at least five times a year and receives regular reports from SCE Leadership on safety
- SOC provides input on operational goals to the Compensation and Executive Personnel Committee; works with Audit and Finance Committee on operational risk mitigations
- SOC Chair reports out to the full Board of Directors on key safety and operational updates at each Board meeting

ENTERPRISE RISK MANAGEMENT HELPS IDENTIFY ISSUES AND DRIVES IMPROVEMENTS IN PUBLIC SAFETY AND OTHER KEY RISKS



- Enterprise Risk Management (ERM) systematically helps identify and drives mitigation of operational and other risks through a common risk management framework, tools, and taxonomy
- ERM maintains a risk register, including public safety risks, drivers of loss control, performs benchmarking, develops and communicates best practices, and utilizes quantitative risk assessments to assist leadership in its role to oversee management of the key risks of the company

CONTINUED FOCUS ON PUBLIC SAFETY RISK HAS PRODUCED POSITIVE RESULTS

	Five-step framework to identify and manage risk						
	Identify and Prioritize RisksEvaluate Mitigation OptionsPlan and Develop MetricsMitigate and Respond to RisksMonitor Effectiveness						
Data-Driven, Quantitative Approaches Being Used to	 Data analytics, risk modeling, root cause analysis, bow-tie, failure modes and effects analysis, and other tools employed to determine risk drivers, mitigation options, and risk-prioritized implementation strategies 						
Improve Public Safety	 E.g., our wildfire risk models, risk-based occupational safety and health program, PSPS frequency and impacts, underground equipment failure model, AB 1054 fund durability calculation, and targeted undergrounding model 						
	 Enhancing and driving uniformity across risk analysis tools, methods, and techniques to drive consistent evaluation of outputs 						
Meaningful Projects Underway to Help Reduce Public Safety Incidents	Covered conductor program has reduced primary wire downs in HFRA over past two yearsDeveloped egress model to help prioritize areas for targeted undergroundingUsing data analytics and modeling to identify and develop mitigations to reduce car-hit-pole incidents						

NUMEROUS METRICS ARE USED BY MANAGEMENT AND THE BOARD TO EVALUATE SAFETY PERFORMANCE

Performance of Selected Metrics¹ Regularly Reviewed by SOC (Not Exhaustive)

Key Risk Area	Metric	2019	2020	2021	2022 YTD - Actual	2022 YTD - Target
Employee Safety	Employee Serious Injuries and Fatalities (SIF) Rate	0.05	0.12	0.06	0.11	0.07
Public Safety	Public SIF due to system failures	1	1	0	0	0
Wildfire	CPUC reportable ignitions in High Fire Risk Areas (HFRA)	38	50	48	26	27
Cybersecurity	Significant disruption, data breach, or system failure	0	0	0	0	0

Representative Metrics Regularly Reviewed by SCE Management and/or SOC (Not Exhaustive)

Public Safety	Public SIF due to system failuresPublic SIFs reported to CPUC	Wire down: Across SCE territoryUnderground equipment failures
Worker Safety	Safety Observations (employee and contractor)	Potential SIF incident
Wildfire	 Vegetation Line Clearing: % of trims on time Underground Equipment Failure: Explosion CPUC reportable ignitions in HFRA # of Ignitions Associated with SCE Equipment in HFRA # of Faults in HFRA² 	 Wire down: HFRA Overhead Inspections: Complete ground and aerial HFRA inspection scope and remediations Reduce duration of customer PSPS outages Improve PSPS customer notifications
Cybersecurity	 No significant disruption, data breach, or system failure BitSight Score² 	 Phishing simulation click and reporting rates Vulnerability Mean Time to Remediate²

¹ Performance as of July 31, 2022

² Indicates metric is reviewed by SCE management but not regularly reported to SOC

PROTECTING PUBLIC SAFETY BY REDUCING THE RISK OF SIGNIFICANT WILDFIRES AND REDUCING CUSTOMER IMPACTS

Wildfire mitigations have resulted in a ~65-70% reduction in the risk of experiencing significant wildfires¹

- Grid Hardening
- Situational Awareness
- Risk Modeling
- Vegetation Management
- Inspections & Remediations
- Data Governance

- Emergency Preparedness
- New Technology
- PSPS
- Grid Operations & Protocols
- Customer Care Programs
- Community Partnerships

REDUCE RISK OF SIGNIFICANT WILDFIRES

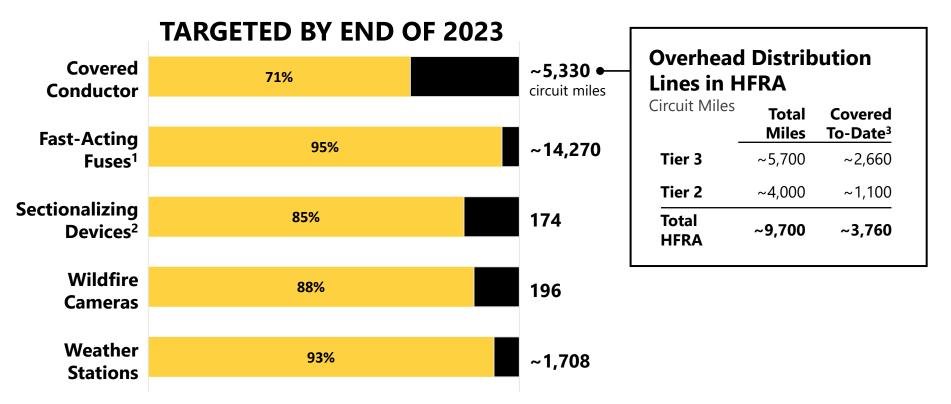
REDUCE CUSTOMER IMPACTS

¹ Based on model produced by Risk Management Solutions. Estimate is in comparison to 2018 risk, based on results through Q2 2022, and considers grid hardening, PSPS, vegetation management and inspections.

SCE HAS MADE SUBSTANTIAL PROGRESS ON GRID HARDENING AND SITUATIONAL AWARENESS MEASURES

INVESTMENTS IN GRID HARDENING AND SITUATIONAL AWARENESS THROUGH 2023

Yellow shading represents completed measures through July 31, 2022, compared to the 2023 forecast in SCE's 2022 WMP Update



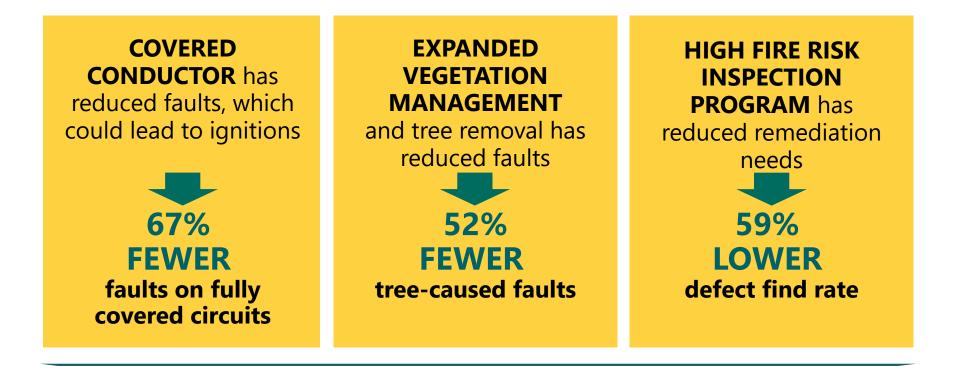
¹ Includes new installation and replacement of existing fast-acting fuses

² Thousands of sectionalizing devices installed prior to 2018 before the wildfire mitigation program began

³ About 200 circuit miles of covered conductor of storm restoration work was distributed evenly between the tiers

8

SCE IS MAKING MEANINGFUL PROGRESS IN MITIGATING WILDFIRE RISK TO OUR CUSTOMERS



ON SEGMENTS WHERE SCE HAS COVERED BARE WIRE, THERE HAS NOT BEEN A CPUC-REPORTABLE IGNITION FROM THE DRIVERS THAT COVERED CONDUCTOR IS EXPECTED TO MITIGATE

OUTCOMES WILL CONTINUE TO IMPROVE AS SCE DEPLOYS MITIGATIONS OVER TIME

While ignitions have increased across system, the impacts of wildfires have decreased substantially:

- Acres burned and structures destroyed decreased considerably from the 2017/2018 time period
- Ignitions in High Fire Risk Area have grown slower than non-HFRA, and are now leveling off
- Risk assessment and mitigation efforts are augmented by incorporating lessons learned from past events into future mitigation strategies

300,000 1,800 200,000 1,200 Acres 100,000 600 0 0 2017 2020 2021 2022 2018 2019 Acres Burned Structures Destroyed

ANNUAL IMPACTS OF WILDFIRES¹

¹ Chart reflects data associated with CPUC reportable and ESIR ignitions. 2022 figures are through June 30, 2022, based on preliminary determinations. Provision of this information should not be construed as an admission of any wrongdoing or liability by SCE. Energy for What's Ahead^{sh}

Structures

SCE MADE SIGNIFICANT PROGRESS IN 2021 TO REDUCE THE IMPACT OF PSPS ON OUR CUSTOMERS

System-wide



45% Reduction in PSPS duration as a result of 2021 mitigation measures





81,000 Customers removed from PSPS scope through exceptions and switching protocols

Frequently Impacted Circuits (FICs)



73% Reduction in PSPS **duration** for the most frequently impacted circuits (FICs)



72% Reduction in scope on FICs



49% Reduction in event **frequency** on FICs

Note: January 2021 PSPS event is considered part of 2020 season as it was driven by 2020 weather and fuel conditions and managed with 2020 tools and capabilities

WHILE USE OF PSPS WILL CONTINUE, SCE IS TAKING ADDITIONAL **MEASURES TO FURTHER REDUCE ITS IMPACTS**

USE PSPS ONLY	REDUCE THE NEED FOR PSPS	Target 50+ circuits for expedited grid hardeningContinue circuit exception activities				
WHEN NECESSARY TO PROTECT	EXECUTE PSPS EVENTS EFFECTIVELY	 Develop ~500 additional machine-learning weather models Complete end-to-end process / system automation Conduct monthly trainings and exercises 				
PUBLIC SAFETY UNDER	MITIGATE THE IMPACTS OF PSPS	 Build out Customer Resource Center availability Continue to refine customer care programs Expand programs and outreach for Access & Functional Needs customers 				
SIGNIFICANTINFORM PARTNERS AND CUSTOMERS	 Improve customer and partner notification accuracy and timeliness through automation Continue community and partner meetings 					
CONDITIONS	IMPROVE POST EVENT REPORTING	 Automate in-event/post-event data flows for more accurate and timely reporting 				

SCE IS MAKING TIMELY PROGRESS IN IMPLEMENTATION OF ENERGY SAFETY AND SCE SAFETY CULTURE ASSESSMENT RECOMMENDATIONS

SCE IMPLEMENTATION OF 2021 SAFETY CULTURE ASSESSMENT RECOMMENDATIONS

- Improved safety-related communication concerning wildfire roles and decisions, by enhancing wildfire safety protocol communications & conducting field workforce outreach
- Evaluated progress of wildfire communication improvements via surveys measuring PSPS protocol changes and communications effectiveness
- Embedded learning organization concepts into culture, by incorporating root cause and lessons learned into employee communications and initiating human & organizational performance training
- Mitigated serious exposure posed by interactions with discontented members of the public, by analyzing incident trends and training employees to proactively mitigate threats

SCE'S SAFETY CULTURE ASSESSMENT PROGRESS

- Improved safety leadership and psychological safety, by driving targeted activities to address key assessment findings, e.g., safety standups focused on speaking up
- Implemented a risk-based approach to safety culture, by focusing safety improvement efforts in targeted locations

Employees see safety culture improvements

- 78% agree safety culture has improved
- 75% see safety leadership improvements
- 91% "feel comfortable talking about safety concerns with their direct supervisors"

WORKER SAFETY PROGRAMS PRIORITIZE REDUCTION OF SERIOUS INJURIES AND FATALITIES

Performance Trends 2018-2022

Metric	2018	2019	2020	2021	2022 ¹	Peer Benchmark Average ²
Employee Fatalities	0	0	0	0	0	—
Employee Serious Injuries and Fatalities (SIF) Rate	0.11	0.05	0.12	0.06	0.11	0.07
Employee Days Away Restricted or Transferred (DART) Rate	0.98	1.17	0.90	1.05	1.16	0.53
Employee OSHA Rate	1.98	2.34	1.80	1.94	1.82	1.09
Contractor Fatalities	2	3	3	1	1	_
Contractor SIF Rate	0.32	0.13	0.19	0.12	0.09	—
Contractor DART Rate	0.55	0.35	0.45	0.36	0.26	0.40
Contractor OSHA Rate	0.92	0.56	0.65	0.57	0.43	0.88

SCE's 12-month moving average employee SIF rate of 0.07 is below previous multi-year averages:

– Time	#	Avg SIF
Period	Yrs	Rate
2016-2018	3	0.11
2019-2021	3	0.08
2017-2021	5	0.09

¹ Safety performance data through July 2022

² Employee benchmark based on 2021 survey of Edison Electric Institute (EEI) member companies. Contractor benchmark based on separate 2020 EEI survey. "-" indicates that no peer benchmark is available

Focus on leader safety ownership, hazard identification and controls, and embedding learnings from cause evaluations helps to improve worker safety

ENHANCING OUR CONTRACTOR MANAGEMENT SYSTEM TO IMPROVE SAFETY PERFORMANCE

OVERSIGHT	 Ratio of 1:30 contractor safety professionals to higher-risk¹ contract workers 				
	 Contractor Dashboard highlighting key metrics 				
	 Contractor Safety Quality Assurance Reviews 				
ACCOUNTABILITY	 Contractor badging and training qualification validation 				
	 13% increase in SCE field safety observations of contractor work 				
CULTURE & ENGAGEMENT	 Contractor-led safety culture training for leaders of higher-risk contractors 				
	 SCE Management engaged in contractor incident reviews and lessons learned 				
	 Recognition program to acknowledge higher-risk contractor safety performance 				

¹ Higher risk in this context means contractors performing work scopes with historically higher volumes/severity of incidents on SCE property if behaviors/work practices deviate from established safety protocols and best practices

CPUC/ENERGY SAFETY PUBLIC MEETING ON SAFETY

Thank you

