

## 2021 LTIP Metric Summary

I. DETAILS	
<b>1. Metric name</b>	<b>System Hardening Effectiveness</b>
<b>2. Risk impacted</b>	Wildfire Risk
<b>3. Definition</b>	<p>Count of circuit miles worked under System Hardening program within high-fire risk areas to reduce wildfire risk through either (1) rebuild of overhead circuitry to current hardening design standards (2) undergrounding (3) removal of overhead circuitry (line removal) (4) enablement for remote grid. This work is performed in HFTD Tiers 2/3 and Tier 1 HFRA.</p> <p>The metric includes Fire Rebuild work and any work associated with Public Safety Power Shutoff (PSPS) that is consistent with the 4 above mitigations.</p> <p>The following conditions must be met or LTIP score for this metric will be 0:</p> <p><b>Condition 1:</b> 80%<sup>1</sup> of system hardening miles must be high-risk miles over the three-year reporting period. High-risk risk areas are defined as:</p> <ol style="list-style-type: none"> <li>1. Top 20%<sup>2</sup> of approved risk model buydown curve</li> <li>2. Fire rebuild miles</li> <li>3. PSPS mitigation miles</li> </ol> <p><b>Condition 2:</b> At least 10% of the completed System Hardening project portfolio over the three-year reporting period must be Undergrounding or Line Removal work<sup>3</sup>.</p> <p>The risk model, risk scores, mitigation effectiveness weights, list of risk-prioritized System Hardening projects and program funding level are approved and governed by the Wildfire Risk Governance forum.</p> <p>The System Hardening projects are recorded as complete and included in metric calculations when individual spans/sections for each project are constructed and inspected for quality control and quality assurance against the hardening design standard and passed as "fire safe".</p> <p><sup>1</sup>Basis of the 80% is to allow for operational execution considerations including permitting, weather related access, and mob/demob efficiencies</p> <p><sup>2</sup>Basis of the top 20% correlates to ~70% of the risk on the risk buydown curve</p> <p><sup>3</sup>Risk reduction effectiveness for Overhead Hardening is estimated at 62% and Undergrounding or Line Removal is estimated at 99%</p>
<b>4. Units and calculation</b>	Units are number of circuit miles complete, rounded to whole miles for LTIP score calculation. LTIP score is determined by number of actual circuit miles complete compared to LTIP 0.5, 1.0, and 2.0 targets for planned circuit miles
<b>5. Measurement system / reporting process</b>	Work execution plan reporting from SAP and iAuditor provided by Electric Ops – Major Programs / Project Delivery (MPP)
<b>6. Exclusions and exceptions</b>	<ul style="list-style-type: none"> <li>- Projects completed prior to 01/01/2021 or after 12/31/2023</li> <li>- Butte County Rebuild miles</li> <li>- System Hardening work performed outside of HFTD / HFRA</li> </ul>
<b>7. Benchmarking (External)</b>	No external benchmarking is available. 2019 and 2020 performance is used as a baseline.

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benchmarks or internal performance)	
<b>8. Related KPIs</b> (e.g. leading indicators)	N/A

II. HISTORICAL AND PROJECTED PERFORMANCE					
	Actual	Target/Forecast	1 <sup>st</sup> Quartile	2 <sup>nd</sup> Quartile	3 <sup>rd</sup> Quartile
2017	N/A				
2018	N/A				
2019	171				
2020	354 <sup>1</sup>				
2021		199			
2022		464			
2023		464			

<sup>1</sup>EOY forecast as of December 16, 2020. Includes Fire Rebuild circuit miles.

III. TARGETS					
<b>1. Targets</b>	Score	2021	2022	2023	2021-2023
	0.5	180	423	423	1,026
	1.0	199	464	464	1,127
	2.0	208	485	485	1,178
<b>2. Target type</b>	<input checked="" type="checkbox"/> Higher is better <input type="checkbox"/> Range: <input type="checkbox"/> Lower is better				
<b>3. Target-setting methodology</b>	<ul style="list-style-type: none"> <li>• <b>Target</b> is set at ~10% higher than Threshold</li> <li>• <b>Threshold:</b> <ul style="list-style-type: none"> <li>- The 2021 Threshold is set in alignment with the approved 2021 System Hardening project portfolio</li> <li>- The 2022 Threshold is set consistent with the Wildfire Mitigation Capital Funding forecast and the execution of the 13-year plan that focuses on top 20% circuit protection zones by 2032.</li> <li>- The 2023 Threshold is set based on the 2023 GRC funding level forecast</li> </ul> </li> <li>• <b>Stretch</b> is set at ~15% higher than Threshold and considers operational execution risks and limitations</li> </ul>				
<b>4. Definitions of key terms</b>	Term	Definition			Source
	HFTD	High Fire Threat District			
	HFRA	High Risk Fire Areas			

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<b>5. Supporting documents</b>	N/A
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<b>IV. OWNERSHIP</b>
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<b>1. Contacts</b>	Type	Name (LAN ID)	Title	Phone
	Preparer	[REDACTED]	Manager, Grid Design	[REDACTED]
	Backup	[REDACTED]	Director, Distribution Strategy	[REDACTED]
	Escalation	[REDACTED]	Sr. Director, Asset Strategy	[REDACTED]
<b>2. Approvers</b> (final approver must be SVP or equivalent)	Name (LAN ID)		Title	
	[REDACTED]		Sr Director, Major Programs / Project Delivery	
	[REDACTED]		VP, Major Projects and Programs	
	[REDACTED]		VP, Asset, Risk Mgmt & Comm Wildfire Safety	
	TBD		Sr. VP, Electric Operations	
[REDACTED]		Chief Risk Officer		