

# SDG&E's 2022 Wildfire Mitigation Plan 3rd Quarter Progress Update

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(All data as of September 30th, 2022)

# 2022 Wildfire Mitigation Plan Activities Q3 Summary



7.3.2 – Situational Awareness & Forecasting	7.3.4 – Asset Management & Inspections						7.3.5 – Vegetation Management & Inspections		
<p><b>7.3.2.1</b> Advanced weather monitoring and weather stations</p> <p><b>7.3.2.2.1</b> Air Quality Index</p> <p><b>7.3.2.2.2</b> Satellite-based remote sensing</p> <p><b>7.3.2.3</b> Fault indicators for detecting faults on electric lines and equipment</p>	<p><b>7.3.4.1</b> CMP HFTD Inspections 5 Year Detailed</p>	<p><b>7.3.4.2</b> Detailed inspections of transmission electric lines and equipment</p>	<p><b>7.3.4.4</b> Infrared inspections of distribution electric lines and equipment</p>	<p><b>7.3.4.5</b> Infrared inspections of transmission electric lines and equipment</p>	<p><b>7.3.4.6</b> CMP HFTD Inspections - Wood Pole Intrusive</p>	<p><b>7.3.4.9.1</b> HFTD Tier 3 distribution pole inspections</p>	<p><b>7.3.5.2</b> Detailed inspections of vegetation around distribution</p>		
	<p><b>7.3.4.9.2</b> Drone assessments of distribution infrastructure</p>	<p><b>7.3.4.10.1</b> Drone assessments of transmission infrastructure</p>	<p><b>7.3.4.10.2</b> Additional transmission aerial 69kV tier 3 visual inspection</p>	<p><b>7.3.4.11</b> Patrol inspections of distribution electric lines and equipment</p>	<p><b>7.3.4.12</b> Patrol inspections of transmission electric lines and equipment</p>	<p><b>7.3.4.15</b> Substation inspections</p>	<p><b>7.3.5.5</b> Fuels management and reduction of "slash"</p>		
	<b>7.3.3 – Grid Design &amp; System Hardening</b>						<p><b>7.3.5.7</b> LiDAR inspections of vegetation around distribution</p>		
<p><b>7.3.3.1</b> Capacitor maintenance and replacement program</p>	<p><b>7.3.3.3</b> Covered conductor installation</p>	<p><b>7.3.3.7</b> Expulsion fuse replacement</p>	<p><b>7.3.3.8.1</b> PSPS sectionalizing enhancements</p>	<p><b>7.3.3.8.2</b> Microgrids</p>	<p><b>7.3.3.9</b> Installation of system automation equipment</p>	<p><b>7.3.3.10</b> Maintenance, repair, and replacement of connectors, including hotline clamps</p>	<p><b>7.3.3.11.1</b> Generator grant programs</p>	<p><b>7.3.3.11.2</b> Standby power programs</p>	<p><b>7.3.5.9</b> Other discretionary inspection of vegetation around distribution electric lines and equipment</p>
<p><b>7.3.3.11.3</b> Generator assistance programs</p>	<p><b>7.3.3.16</b> Undergrounding of electric lines and/or equipment</p>	<p><b>7.3.3.17.1</b> Distribution overhead system hardening</p>	<p><b>7.3.3.17.2.1</b> Overhead transmission fire hardening</p>	<p><b>7.3.3.17.2.2</b> Underground transmission fire hardening</p>	<p><b>7.3.3.17.2.3</b> Distribution overhead transmission fire hardening</p>	<p><b>7.3.3.18.1</b> Distribution communications reliability improvements</p>	<p><b>7.3.3.18.2</b> Lightning arrestor removal and replacement</p>	<p><b>7.3.3.18.3</b> Avian Mitigation</p>	<p><b>7.3.5.13</b> QA/QC of inspections</p>
								<p><b>7.3.5.16</b> Removal and remediation of trees with strike potential to electric lines and equipment</p>	
								<p><b>7.3.5.20</b> Vegetation management to achieve clearances around electric lines and equipment</p>	

# Q3 Activity Status vs 2022 Goals

## 7.3.2 – Situational Awareness and Forecasting

**7.3.2.1**  
**6**  
Weather Station Upgrades

**30% Advanced weather monitoring & station upgrades**  
**Volume vs 2022 Goal:** 6 of 20 weather station upgrades (30%)  
**Key Actions:** Program on time and on target.

**7.3.2.2.2**  
**12**  
Cameras

**150% Satellite-based remote sensing**  
**Volume vs 2022 Goal:** 12 of 8 cameras installed (150%)  
**Key Actions:** Target increase to 22 cameras. Program complete.

**7.3.2.2.1**  
**5**  
Sensors

**83% Continuous monitoring sensors - Air Quality Index**  
**Volume vs 2022 Goal:** 5 of 6 air quality sensors installed (83%)  
**Key Actions:** Program on time and on target.

**7.3.2.3**  
**515**  
Wireless fault indicators

**103% Fault indicators for detecting faults on electric lines and equipment**  
**Volume vs 2022 Goal:** 515 of 500 wireless fault indicators (103%)  
**Key Actions:** Program complete.

# Q3 Activity Status vs 2022 Goals

## 7.3.3 – Grid Design and System Hardening (1 of 2)

7.3.3.1  
**47**  
Capacitors

**118% Capacitor maintenance and replacement program - SCADA capacitors**  
**Volume vs 2022 Goal:** 47 of 40 SCADA capacitors (118%)  
**Key Actions:** Program complete.

7.3.3.3  
**29.12**  
Miles

**49% Covered conductor installation - Distribution OH Hardening**  
**Volume vs 2022 Goal:** 29.12 of 60 miles covered conductor (49%)  
**Key Actions:** 36 miles in construction to complete through Dec. 15 miles expected to be issued to construction in Q4.

7.3.3.7  
**213**  
Fuses

**94% Expulsion fuse replacement**  
**Volume vs 2022 Goal:** 213 of 277 expulsion fuses (94%)  
**Key Actions:** Program on time and on target.

7.3.3.8.1  
**10**  
Switches

**100% PSPS sectionalizing enhancements**  
**Volume vs 2022 Goal:** 10 of 10 sectionalizing devices (100%)  
**Key Actions:** Program complete.

7.3.3.8.2  
**1**  
Microgrids

**25% Microgrids**  
**Volume vs 2022 Goal:** 1 of 4 microgrids (25%)  
**Key Actions:** Program off track. Program team continues to pursue battery commissioning.

7.3.3.9  
**3**  
Circuits

**38% Installation of system automation equipment**  
**Volume vs 2022 Goal:** 3 of 8 circuits enabled (38%)  
**Key Actions:** Program off track. PMs to evaluate construction options for remaining circuits.

7.3.3.10  
**1,764**  
Hotline Camps

**107% Maintenance, repair, and replacement of connectors, including hotline clamps**  
**Volume vs 2022 Goal:** 1,764 of 1,650 hotline clamps (107%)  
**Key Actions:** Program complete.

7.3.3.11.1  
**203**  
Generators

**7% Generator Grant Programs**  
**Volume vs 2022 Goal:** 203 of 3,000 generators (7%)  
**Key Actions:** Program off track. Evaluating program to consider next generation battery technology as a more sustainable and resilient option. Change order filed on October 14th.

# Q2 Activity Status vs 2022 Goals

## 7.3.3 – Grid Design and System Hardening (2 of 2)

<p><b>7.3.3.11.2</b> <b>202</b> Generators</p>	<p><b>49% Standby power programs</b> Volume vs 2022 Goal: 202 of 412 generators (49%) Key Actions: Program on time and on target.</p>	<p><b>7.3.3.17.2.2</b> <b>0</b> Miles</p>	<p><b>0% Underground transmission fire hardening</b> Volume vs 2022 Goal: 0 of 5.5 miles hardened (0%) Key Actions: Program on time and on target. Work projected for Q4.</p>
<p><b>7.3.3.11.3</b> <b>10</b> Generators</p>	<p><b>0.8% Generator assistance programs</b> Volume vs 2022 Goal: 10 of 1250 generators (0.8%) Key Actions: Program on time and on target.</p>	<p><b>7.3.3.17.2.3</b> <b>0.6</b> Miles</p>	<p><b>8% Overhead transmission fire hardening (Distribution Underbuilt)</b> Volume vs 2022 Goal: 0.6 of 7.6 miles hardened (8%) Key Actions: TL6926 distribution work pushed to 2023. No work planned in Q4 2022.</p>
<p><b>7.3.3.16</b> <b>23.65</b> Miles</p>	<p><b>36% Undergrounding of electric lines and/or equipment</b> Volume vs 2022 Goal: 23.65 of 65 miles UG (36%) Key Actions: Program on time and on target.</p>	<p><b>7.3.3.18.1</b> <b>7</b> Base stations</p>	<p><b>28% Distribution communications reliability improvements</b> Volume vs 2022 Goal: 7 of 25 base stations (28%) Key Actions: Program on time and on target.</p>
<p><b>7.3.3.17.1</b> <b>25.86</b> Miles</p>	<p><b>517% Distribution overhead system hardening</b> Volume vs 2022 Goal: 25.86 of 5 miles hardened (517%) Key Actions: Many miles carried over from 2021. Program complete.</p>	<p><b>7.3.3.18.2</b> <b>2,212</b> Arrestors</p>	<p><b>120% Lightning arrestor removal and replacement</b> Volume vs 2022 Goal: 2,212 of 1,848 lightning arrestors replaced (120%) Key Actions: Program complete.</p>
<p><b>7.3.3.17.2.1</b> <b>12.61</b> Miles</p>	<p><b>68% Overhead transmission fire hardening</b> Volume vs 2022 Goal: 12.61 of 18.5 miles of OH miles hardened (68%) Key Actions: Program on time and on target.</p>	<p><b>7.3.3.18.3</b> <b>852</b> Poles</p>	<p><b>101% Avian mitigation</b> Volume vs 2022 Goal: 852 of 847 poles (101%) Key Actions: Program complete.</p>

All data is up to date as of September 30, 2022

# Q2 Activity Status vs 2022 Goals

## 7.3.4 – Asset Management and Inspections (1 of 2)

**7.3.4.1**  
**17,550**  
Inspections

**97% CMP HFTD Inspections - 5 Year Detailed**  
Volume vs 2022 Goal: 17,550 of 18,177 inspections (97%)  
Key Actions: Program on time and on target.

**7.3.4.2**  
**1,803**  
Inspections

**86% Transmission Inspections – Detailed**  
Volume vs 2022 Goal: 1,803 of 2,087 inspections (86%)  
Key Actions: Program on time and on target.

**7.3.4.4**  
**7,779**  
Inspections

**65% Distribution Infrared Inspections**  
Volume vs 2022 Goal: 7,779 of 12,000 inspections (65%)  
Key Actions: Program on time and on target.

**7.3.4.5**  
**5,198**  
Inspections

**84% Transmission Infrared Inspections**  
Volume vs 2022 Goal: 5,198 of 6,154 inspections (84%)  
Key Actions: Program on time and on target.

**7.3.4.6**  
**684**  
Inspections

**196% CMP HFTD Inspections - Wood Pole Intrusive**  
Volume vs 2022 Goal: 684 of 350 inspections (196%)  
Key Actions: Program complete.

**7.3.4.9.1**  
**12,263**  
Inspections

**100% HFTD Tier 3 distribution pole inspections**  
Volume vs 2022 Goal: 12,263 of 12,268 inspections (100%)  
Key Actions: Program complete.

**7.3.4.9.2**  
**26,760**  
Inspections

**122% Drone assessments of distribution infrastructure**  
Volume vs 2022 Goal: 26,760 of 22,000 inspections (122%)  
Key Actions: Program complete.

**7.3.4.10.1**  
**768**  
Inspections

**154% Drone assessment of transmission**  
Volume vs 2022 Goal: 768 of 500 inspections (154%)  
Key Actions: Program complete.

All data is up to date as of September 30, 2022

# Q2 Activity Status vs 2022 Goals

## 7.3.4 – Asset Management and Inspections (2 of 2)

7.3.4.10.2  
**1,649**  
Inspections

**100%** Additional Transmission Aerial 69kV Tier 3 Visual Inspection  
**Volume vs 2022 Goal:** 1,649 of 1,654 inspections (100%)  
**Key Actions:** Program complete.

7.3.4.12  
**6,445**  
Inspections

**102%** Patrol inspections of transmission electric lines and equipment  
**Volume vs 2022 Goal:** 6,445 of 6,312 inspections (102%)  
**Key Actions:** Program complete.

7.3.4.11  
**85,920**  
Inspections

**99%** Patrol inspections of distribution electric lines and equipment  
**Volume vs 2022 Goal:** 85,920 of 86,490 inspections (99%)  
**Key Actions:** Program on time and on target.

7.3.4.15  
**291**  
Inspections

**88%** Substation inspections  
**Volume vs 2022 Goal:** 291 of 330 inspections (88%)  
**Key Actions:** Program on time and on target.

# Q2 Activity Status vs 2022 Goals

## 7.3.5 – Vegetation Management and Inspections

7.3.5.2  
**377,893**  
Inspections

**77%** Detailed inspections of vegetation around distribution electric lines and equipment  
Volume vs 2022 Goal: 377,893 of 491,822 trees inspected (77%)  
Key Actions: Program on time and on target.

7.3.5.13  
**11.3%**  
Inspections

**75%** Quality assurance/quality control of inspections  
Volume vs 2022 Goal: 11.3% of 15% of inspections (75%)  
Key Actions: Program on time and on target.

7.3.5.5  
**143**  
Poles Cleared

**29%** Fuels management and reduction of "slash" from vegetation management activities  
Volume vs 2022 Goal: 143 of 500 poles cleared (29%)  
Key Actions: Program on time and on target.

7.3.5.16  
**105**  
Vegetation Management Areas

**99%** Removal and remediation of trees with strike potential to electric lines and equipment  
Volume vs 2022 Goal: 105 of 106 Vegetation Management Areas Completed (99%)  
Key Actions: Program completed.

7.3.5.7  
**742.8**  
Circuit Line Mile

**102%** LiDAR inspections of vegetation around distribution electric lines and equipment  
Volume vs 2022 Goal: 742.8 of 730 miles inspected (102%)  
Key Actions: Program complete.

7.3.5.20  
**27,109**  
Poles brushed

**80%** Vegetation management to achieve clearances around electric lines and equipment  
Volume vs 2022 Goal: 27,109 of 34,000 poles brushed (80%)  
Key Actions: Program on time and on target.

7.3.5.9  
**8,894**  
Trees

**71%** Other discretionary inspection of vegetation around distribution electric lines and equipment, beyond inspections mandated by rules and regulations  
Volume vs 2022 Goal: 8,894 of 12,500 trees trimmed/removed (71%)  
Key Actions: Program on time and on target.

All data is up to date as of September 30, 2022



# 2022 WMP Off Track Activities – Details

7.3.3.8.2  
**1**  
Microgrids

### 25% Microgrids

**Volume vs 2022 Goal:** 1 of 4 microgrids (25%)

**Key Actions:** Program team continues to pursue battery commissioning.

The Microgrids initiative (7.3.3.8.2) is not on track to meet the target of commissioning the remaining three microgrids in 2022. Microgrid spend is still on track as SDG&E converts existing microgrid sites from traditional generation to renewable power sources. Cameron Corners is slated to be fully commissioned in early 2023, and Shelter Valley and Butterfield/Agua Caliente have been pushed to 2023. The PSPS risk for customers will still be mitigated by the microgrids through the traditional generators.

7.3.3.9  
**3**  
Circuits

### 38% Installation of system automation equipment (advanced protection)

**Volume vs 2022 Goal:** 3 of 8 circuits enabled (38%)

**Key Actions:** Program off track. PMs to evaluate construction options for remaining circuits.

Installation of system automation equipment initiative (7.3.3.9) has encountered challenges obtaining permits required to proceed with construction on five circuits due to new procedures at the Bureau of Indian Affairs (BIA). In addition, there are environmental approval delays impacting three of the circuits. Project teams are evaluating options to begin construction for the remaining circuits with targeted completion in 2022. To mitigate permitting challenges, project teams will work to identify requirements earlier in the scoping phase and include such durations in project schedules.

# 2022 WMP Off Track Activities – Details

7.3.3.11.1  
**203**  
Generators

## 7% Generator Grant Programs

**Volume vs 2022 Goal:** 203 of 3,000 generators (7%)

**Key Actions:** Program team evaluating new technology.

The mission of the Generator Grant Program (7.3.3.11.1) is to provide our most vulnerable, electricity-dependent customers (i.e. MBL, Life Support, and select AFN) with the safest backup power solutions for use during PSPS. The program team evaluated the program and is considering next generation battery technology as a more sustainable and resilient option to reach those in most need. A change order has been submitted to OEIS.

7.3.3.17.2.3  
**0.6**  
miles

## 8% Overhead transmission fire hardening (Distribution Underbuild)

**Volume vs 2022 Goal:** 0.6 of 7.6 miles hardened (8%)

**Key Actions:**

Distribution Underbuild work is shifting to 2023 due to prior issues and delays with the jack and bore construction method and dewatering. The project had to be re-designed to work around these issues, pushing the construction schedule to 2023.