SDG&E's 2022 Wildfire Mitigation Plan 2nd Quarter Progress Update

(All data as of June 30th, 2022)

2022 Wildfire Mitigation Plan Activities Q2 Summary

7.3.2 – Situational Awareness & Forecasting

7.3.2.1
Advanced weather monitoring and weather stations

7.3.2.2.1
Air Quality Index

7.3.2.2.2
Satellite-based remote sensing

7.3.2.3
Fault indicators for detecting faults on electric lines and equipment

7.3.4 – Asset Management & Inspections

7.3.4.1
CMP HFTD Inspections 5 Year Detailed

7.3.4.2
Detailed inspections of transmission electric lines and equipment

7.3.4.4
Infrared inspections of distribution electric lines and equipment

7.3.4.5
Infrared inspections of transmission electric lines and equipment

7.3.4.6
CMP HFTD Inspections - Wood Pole Intrusive

7.3.4.9.1
HFTD Tier 3 distribution pole inspections

7.3.4.9.2
Drone assessments of distribution infrastructure

7.3.4.10.1
Drone assessments of transmission infrastructure

7.3.4.10.2
Additional transmission aerial 69kV tier 3 visual inspection

7.3.4.11
Patrol inspections of distribution electric lines and equipment

7.3.4.12
Patrol inspections of transmission electric lines and equipment

7.3.4.15
Substation inspections

7.3.5 – Vegetation Management & Inspections

7.3.5.2
Detailed inspections of vegetation around distribution

7.3.5.5
Fuels management and reduction of "slash"

7.3.5.7
LiDAR inspections of vegetation around distribution

7.3.5.9
Other discretionary inspection of vegetation around distribution electric lines and equipment

7.3.5.13
QA/QC of inspections

7.3.5.16
Removal and remediation of trees with strike potential to electric lines and equipment

7.3.5.20
Vegetation management to achieve clearances around electric lines and equipment

7.3.3 – Grid Design & System Hardening

7.3.3.1
Capacitor maintenance and replacement program

7.3.3.3
Covered conductor installation

7.3.3.7
Expulsion fuse replacement

7.3.3.8.1
PSPS sectionalizing enhancements

7.3.3.8.2
Microgrids

7.3.3.9
Installation of system automation equipment

7.3.3.10
Maintenance, repair, and replacement of connectors, including hotline clamps

7.3.3.11.1
Generator grant programs

7.3.3.11.2
Standby power programs

7.3.3.11.3
Generator assistance programs

7.3.3.16
Undergrounding of electric lines and/or equipment

7.3.3.17.1
Distribution overhead system hardening

7.3.3.17.2.1
Overhead transmission fire hardening

7.3.3.17.2.2
Underground transmission fire hardening

7.3.3.17.2.3
Distribution overhead transmission fire hardening

7.3.3.18.1
Distribution communications reliability improvements

7.3.3.18.2
Lightning arrestor removal and replacement

7.3.3.18.3
Avian Mitigation

Legend: ☐ Not Started | 🟩 On Track | 🟦 Ahead of Plan | 🟪 Complete | 🟥 Off Track

Q2 Activity Status vs 2022 Goals

7.3.2 – Situational Awareness and Forecasting

7.3.2.1
5
Weather Station Upgrades

25% Advanced weather monitoring & station upgrades
Volume vs 2022 Goal: 5 of 20 weather station upgrades (25%)
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 on time and ahead of target.

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
12
Wireless fault indicators

2% Fault indicators for detecting faults on electric lines and equipment
Volume vs 2022 Goal: 12 of 500 wireless fault indicators (2%)
Key Actions: Program on time and on target. Construction begins in Q3.

Q2 Activity Status vs 2022 Goals

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

7.3.3.1
22
Capacitors

55% Capacitor maintenance and replacement program - SCADA capacitors
Volume vs 2022 Goal: 22 of 40 SCADA capacitors (55%)
Key Actions: Program on time and on target.

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 batter commissioning.

7.3.3.3
12.6
Miles

21% Covered conductor installation - Distribution OH Hardening
Volume vs 2022 Goal: 12.6 of 60 miles covered conductor (21%)
Key Actions: 41 miles are expected to be issued to construction during Q3 and 19 miles in Q4.

7.3.3.9
2
Circuits

25% Installation of system automation equipment
Volume vs 2022 Goal: 2 of 8 circuits enabled (25%)
Key Actions: Program off track. PMs to evaluate construction options for remaining circuits.

7.3.3.7
167
Fuses

60% Expulsion fuse replacement
Volume vs 2022 Goal: 167 of 277 expulsion fuses (60%)
Key Actions: Program on time and on target.

7.3.3.10
1,548
Hotline Camps

93% Maintenance, repair, and replacement of connectors, including hotline clamps
Volume vs 2022 Goal: 1,548 of 1,650 hotline clamps (93%)
Key Actions: Program on time and ahead of target.

7.3.3.8.1
6
Switches

60% PSPS sectionalizing enhancements
Volume vs 2022 Goal: 6 of 10 sectionalizing devices (60%)
Key Actions: Program on time and on target.

7.3.3.11.1
8
Generators

0.2% Generator Grant Programs
Volume vs 2022 Goal: 8 of 3,000 generators (0.2%)
Key Actions: Program off track. Evaluating program to consider next generation battery technology as a more sustainable and resilient option.

Q2 Activity Status vs 2022 Goals

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

7.3.3.11.2
122
Generators

29% Standby power programs
Volume vs 2022 Goal: 122 of 412 generators (29%)
Key Actions: Program on time and on target.

7.3.3.17.2.2
0
Miles

0% Underground transmission fire hardening
Volume vs 2022 Goal: 0 of 5.5 miles hardened (0%)
Key Actions: Program on time and on target.

7.3.3.11.3
0
Generators

0% Generator assistance programs
Volume vs 2022 Goal: 0 of 1250 generators (0%)
Key Actions: Program on time and on target. Customer notification and program kick off begins in the fall.

7.3.3.17.2.3
0.6
Miles

8% Overhead transmission fire hardening (Distribution Underbuilt)
Volume vs 2022 Goal: 0.6 of 7.6 miles hardened (8%)
Key Actions: Program on time and on target.

7.3.3.16
11.07
Miles

17% Undergrounding of electric lines and/or equipment
Volume vs 2022 Goal: 11.07 of 65 miles UG (17%)
Key Actions: Program on time and on target.

7.3.3.18.1
3
Base stations

12% Distribution communications reliability improvements
Volume vs 2022 Goal: 3 of 25 base stations (12%)
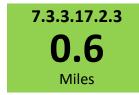**Key Actions:** Program on time and on target.

7.3.3.17.1
24.66
Miles

490% Distribution overhead system hardening
Volume vs 2022 Goal: 24.66 of 5 miles hardened (490%)
Key Actions: Many miles carried over from 2021. Program complete

7.3.3.18.2
1,702
Arrestors

92% Lightning arrestor removal and replacement
Volume vs 2022 Goal: 1,702 of 1,848 lightning arrestors replaced (92%)
Key Actions: Program on time and ahead of target.

7.3.3.17.2.1
3.43
Miles

18% Overhead transmission fire hardening
Volume vs 2022 Goal: 3.43 of 18.5 miles of OH miles hardened (18%)
Key Actions: Program on time and on target.

7.3.3.18.3
680
Poles

78% Avian mitigation
Volume vs 2022 Goal: 680 of 874 poles (78%)
Key Actions: Program on time and on target.

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

☐ Not Started 🟩 On Track 🟦 Ahead of Plan 🟪 Complete 🟥 Off Track

Q2 Activity Status vs 2022 Goals

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7.3.4 – Asset Management and Inspections (1 of 2)

7.3.4.1
15,751
Inspections

86% CMP HFTD Inspections - 5 Year Detailed
Volume vs 2022 Goal: 15,751 of 18,177 inspections (86%)
Key Actions: Program on time and on target.

7.3.4.6
328
Inspections

94% CMP HFTD Inspections - Wood Pole Intrusive
Volume vs 2022 Goal: 328 of 350 inspections (94%)
Key Actions: Program on time and on target.

7.3.4.2
988
Inspections

47% Transmission Inspections – Detailed
Volume vs 2022 Goal: 988 of 2,087 inspections (47%)
Key Actions: Program on time and on target.

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.

7.3.4.4
7,368
Inspections

61% Distribution Infrared Inspections
Volume vs 2022 Goal: 7,368 of 12,000 inspections (61%)
Key Actions: Program on time and on target.

7.3.4.9.2
17,273
Inspections

78% Drone assessments of distribution infrastructure
Volume vs 2022 Goal: 17,273 of 22,000 inspections (78%)
Key Actions: Program on time and on target.

7.3.4.5
0
Inspections

0% Transmission Infrared Inspections
Volume vs 2022 Goal: 0 of 6,154 inspections (0%)
Key Actions: Program will begin in Q3.

7.3.4.10.1
530
Inspections

106% Drone assessment of transmission
Volume vs 2022 Goal: 530 of 500 inspections (106%)
Key Actions: Program on time and ahead of target.

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

Not Started   On Track   Ahead of Plan   Complete   Off Track

6

Q2 Activity Status vs 2022 Goals

7.3.4 – Asset Management and Inspections (2 of 2)

7.3.4.10.2

0

Inspections

0% Additional Transmission Aerial 69kV Tier 3 Visual Inspection
Volume vs 2022 Goal: 0 of 1,654 inspections (0%)
Key Actions: Program will begin in August per schedule.

7.3.4.12

6,111

Inspections

97% Patrol inspections of transmission electric lines and equipment
Volume vs 2022 Goal: 6,111 of 6,312 inspections (97%)
Key Actions: Program on time and on target.

7.3.4.11

67,221

Inspections

78% Patrol inspections of distribution electric lines and equipment
Volume vs 2022 Goal: 67,221 of 86,490 inspections (78%)
Key Actions: Program on time and on target.

7.3.4.15

199

Inspections

60% Substation inspections
Volume vs 2022 Goal: 199 of 330 inspections (60%)
Key Actions: Program on time and on target.

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

Not Started   On Track   Ahead of Plan   Complete   Off Track

Q2 Activity Status vs 2022 Goals
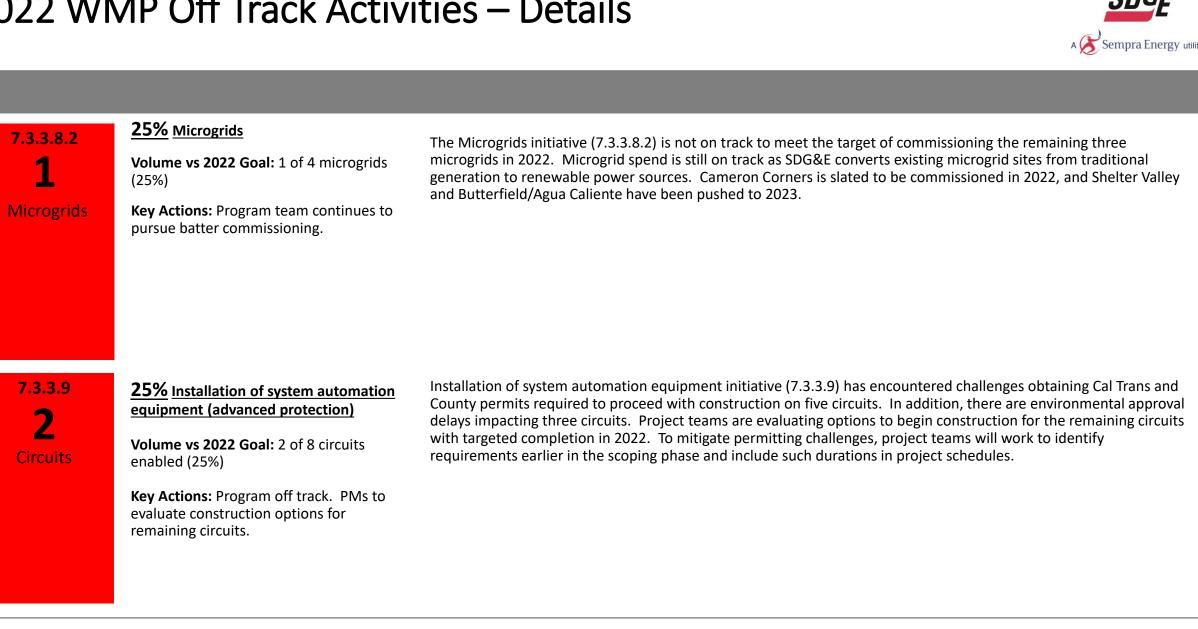
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7.3.5 – Vegetation Management and Inspections

7.3.5.2
245,512
Inspections

50% Detailed inspections of vegetation around distribution electric lines and equipment
Volume vs 2022 Goal: 245,512 of 491,822 trees inspected (50%)
Key Actions: Program on time and on target.

7.3.5.13
6.4%
Inspections

6.4% Quality assurance/quality control of inspections
Volume vs 2022 Goal: 6.4% of 15% of inspections (6.4%)
Key Actions: Program on time and on target.

7.3.5.5
90
Poles Cleared

18% Fuels management and reduction of "slash" from vegetation management activities
Volume vs 2022 Goal: 90 of 500 poles cleared (18%)
Key Actions: Program on time and on target. Work will resume in Q3.

7.3.5.16
34
Vegetation Management Areas

32% Removal and remediation of trees with strike potential to electric lines and equipment
Volume vs 2022 Goal: 34 of 106 Vegetation Management Areas Completed (32%)
Key Actions: Program on time and on target.

7.3.5.7
250.9
Circuit Line Mile

34% LiDAR inspections of vegetation around distribution electric lines and equipment
Volume vs 2022 Goal: 250.85 of 730 miles inspected (34%)
Key Actions: Program on time and on target.

7.3.5.20
24,698
Poles brushed

73% Vegetation management to achieve clearances around electric lines and equipment
Volume vs 2022 Goal: 24,698 of 34,000 poles brushed (73%)
Key Actions: Program on time and on target.

7.3.5.9
5,462
Trees

44% Other discretionary inspection of vegetation around distribution electric lines and equipment, beyond inspections mandated by rules and regulations
Volume vs 2022 Goal: 5,462 of 12,500 trees trimmed/removed (44%)
Key Actions: Program on time and on target.

☐ Not Started 🟩 On Track 🟦 Ahead of Plan 🟪 Complete 🟥 Off Track

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 batter 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 commissioned in 2022, and Shelter Valley and Butterfield/Agua Caliente have been pushed to 2023.

7.3.3.9

2

Circuits

25% **Installation of system automation equipment (advanced protection)**

Volume vs 2022 Goal: 2 of 8 circuits enabled (25%)

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 Cal Trans and County permits required to proceed with construction on five circuits. In addition, there are environmental approval delays impacting three 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

8

Generators

0.2% Generator Grant Programs

Volume vs 2022 Goal: 8 of 3,000 generators (0.2%)

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 is evaluating the program and is considering next generation battery technology as a more sustainable and resilient option to reach those in most need. As such, the program's current progress is off track.