Table 8-3 - Grid Design, Operations, and Maintenance Targets by Year (MODIFIED)

*Modified to show % in SRA and HCA as individual values.*

*Note that values for SH-1 and SH-2 reflect corrections SCE submitted to OEIS on April 6, 2023.*

*The 2024 percentage for SH-1 has been updated to 91%, which SCE will provide in errata to OEIS on April 26, 2023.*

*Some values may not add due to rounding.*

| **Initiative Activity** | **Tracking**  **ID** | **2023 Target & Unit** | **x% Risk**  **Impact 2023**  **(Unit /HFRA)** | **% in SRA/HCA**  **2023** | **2024 Target & Unit** | **x% Risk**  **Impact 2024**  **(Unit /HFRA)** | **% in SRA/HCA 2024** | **2025 Target & Unit** | **x% Risk**  **Impact 2025**  **(Unit /HFRA)** | **% in SRA/HCA 2025** | **Method of Verification** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Covered Conductor | SH-1 | Install **1,100** circuit miles of covered conductor in SCE’s HFRA  SCE will strive to install up to as many as **1,200** circuit miles of covered conductor in SCE’s HFRA, subject to resource constraints and other execution risks | 51% / 20% | 91%  SRA%: 38%  HCA%: 53% | Install **1,050** circuit miles of covered conductor in SCE’s HFRA  SCE will strive to install up to as many as **1,200** circuit miles of covered conductor in SCE’s HFRA, subject to resource constraints and other execution risks | 53%/6% | ~~82%~~  91%  SRA%: 5%  HCA%: 86% | Install **700** circuit miles of covered conductor in SCE’s HFRA  SCE will strive to install up to as many as **850** circuit miles of covered conductor in SCE’s HFRA, subject to resource constraints and other execution risks | 51%/4% | 80%  SRA%: 0%  HCA%: 80% | Listing of completed Work Orders |
| Underground-ing Overhead Conductor | SH-2 | Convert **11** circuit miles of overhead to underground in SCE's HFRA | 98%/.22% | 100%  SRA%: 100%  HCA%: 0% | Convert **16** circuit miles of overhead to underground in SCE's HFRA  SCE will strive to convert up to **20** miles of overhead to underground in SCE's HFRA, subject to resource constraints and other execution risks | 98%/.64% | 100%  SRA%: 63%  HCA%: 37% | Convert **48** circuit miles of overhead to underground in SCE's HFRA  SCE will strive to convert up to **60** miles of overhead to underground in SCE's HFRA, subject to resource constraints and other execution risks | 98%/.9% | 100%  SRA%: 100%  HCA%: 0% | Listing of completed Work Orders |
| Branch Line Protection strategy | SH-4 | Install or replace fusing at **500** fuse locations that serve HFRA circuitry  SCE will strive to install or replace fusing at up to **570** locations that serve HFRA circuitry, subject to resource constraints and other execution risks | 7%/.31% | 97%  SRA%: 42%  HCA%: 55% | N/A – Sunsetting in 2023, further fuse replacements will be completed via opportunity work | N/A | N/A | N/A – Sunsetting in 2023, further fuse replacements will be completed via opportunity work | N/A | N/A | Listing of completed Work Orders |
| Remote Controlled Automatic Reclosers Settings Update | SH-5 | SCE will install **6** RAR/RCS sectionalizing devices subject to 2022 PSPS analysis and subject to change  SCE will strive to install up to **17** RAR/RCS sectionalizing devices subject to 2022 PSPS analysis, resource constraints and other execution risks | 29%/.04% | 7%  SRA%: 0%  HCA%: 7% | SCE will install **5** RAR/RCS sectionalizing devices subject to 2023 PSPS analysis and subject to change  SCE will strive to install **17** RAR/RCS sectionalizing devices subject to 2023 PSPS analysis, resource constraints and other execution risks | 34%/.24% | 67%  SRA%: 3%  HCA%: 65% | SCE will install **5** RAR/RCS sectionalizing devices subject to 2024 PSPS analysis and subject to change    SCE will strive to install **17** RAR/RCS sectionalizing devices subject to 2024 PSPS analysis, resource constraints and other execution risks | 33%/.19% | 95%  SRA%: 0%  HCA%: 95% | Listing of completed Work Orders |
| Circuit Breaker Relay Hardware for Fast Curve | SH-6 | Replace/upgrade **75** CB relay units with fast curve settings in SCE’s HFRA  SCE will strive to replace/upgrade up to **88** relay units with fast curve settings in SCE’s HFRA, subject to resource constraints and other execution risks | 32%/.15% | 95%  SRA%: 41%  HCA%: 54% | Replace/ upgrade remaining **10** CB relay units with fast curve settings in SCE’s HFRA, subject to resource constraints and other execution risks | 32%/.004% | 92%  SRA%: 17%  HCA%: 75% | N/A - Activity Sunsetting in 2024 | N/A | N/A | Listing of completed Work Orders |
| Trans-mission Open Phase Detection | SH-8 | Install TOPD at **5** locations that serve HFRA circuitry with both alarm and trip functionality | 1%/.01% | 100%  SRA%: 0%  HCA%: 100% | Retrofit TOPD at **5** locations with trip capabilities where alarm mode was previously deployed and that serve HFRA circuitry | 1%/.01% | 100%  SRA%: 0%  HCA%: 100% | Target to be determined based on further evaluation | N/A | N/A | Listing of completed Work Orders |
| Tree Attach-ments Remediation | SH-10 | Remediate **400** tree attachments in SCE’s HFRA  SCE will strive to complete up to **500** tree attachment remediations in SCE’s HFRA, subject to resource constraints and other execution risks | 21%/.02% | 42%  SRA%: 0%  HCA%: 42% | Remediate **500** tree attachments in SCE’s HFRA  SCE will strive to complete up to **600** tree attachment remediations in SCE’s HFRA, subject to resource constraints and other execution risks | 21%/.03% | 42%  SRA%: 0%  HCA%: 42% | Remediate the balance of tree attachments in SCE’s HFRA, subject to change based on scope completed in previous years | 22%/.03% | 52%  SRA%: 0%  HCA%: 52% | Listing of completed Work Orders |
| Long Span Initiative (LSI) | SH-14 | Remediate **400** spans in SCE’s HFRA  SCE will strive to remediate up to **500** spans in SCE’s HFRA, subject to resource constraints and other execution risks | 5%/.01% | 92%  SRA%: 74%  HCA%: 18% | Remediate **1,000** spans in SCE’s HFRA  SCE will strive to remediate up to **1,200** spans in SCE’s HFRA, subject to resource constraints and other execution risks | 5%/.04% | 82%  SRA%: 58%  HCA%: 24% | Remediate **1,000** spans in SCE’s HFRA  SCE will strive to remediate up to **1,200** spans in SCE’s HFRA, subject to resource constraints and other execution risks | 4%/.02% | 98%  SRA%: 38%  HCA%: 60% | Listing of completed Work Orders |
| Vertical Switches | SH-15 | Install **9** vertical switches in SCE’s HFRA  SCE will **strive** to install **11** vertical switches in SCE’s HFRA, subject to resource constraints and other execution risks | 44%/.01% | 67%  SRA%: 22%  HCA%: 45% | N/A – Sunsetting in 2023 | N/A | N/A | N/A – Sunsetting in 2023 | N/A | N/A | Listing of completed Work Orders |
| Vibration Damper Retrofit | SH-16 | Retrofit vibration dampers on **300** structures where covered conductor is already installed in SCE’s HFRA  SCE will strive to retrofit vibration dampers on up to **400** structures where covered conductor is already installed in SCE’s HFRA, subject to resource constraints and other execution risks | 19%/.04% | 100%  SRA%: 50%  HCA%: 50% | Retrofit vibration dampers on **500** structures where covered conductor is already installed in SCE’s HFRA  SCE will strive to retrofit vibration dampers on up to **600** structures where covered conductor is already installed in SCE’s HFRA, subject to resource constraints and other execution risks | 11%/.01% | 99%  SRA%: 41%  HCA%: 58% | Retrofit vibration dampers on **600** structures where covered conductor is already installed in SCE’s HFRA  SCE will strive to retrofit vibration dampers on up to **800** structures where covered conductor is already installed in SCE’s HFRA, subject to resource constraints and other execution risks | 20%/.09% | 100%  SRA%: 45%  HCA%: 55% | Listing of completed Work Orders |
| Rapid Earth Fault Current Limiters (REFCL) (Ground Fault Neutralizer (GFN)) | SH-17 | SCE will complete construction of GFN at **two** substations (Acton and Phelan) | 47%/3.6% | 94%  SRA%: 8%  HCA%: 86% | SCE will complete construction of GFN at **one** substation (Banducci) | 45%/.54% | 88%  SRA%: 32%  HCA%: 56% | SCE will complete construction of GFN at **four** substations | 49%/1.8% | 89%  SRA%: 13%  HCA%: 76% | Listing of completed Work Orders |
| Rapid Earth Fault Current Limiters (REFCL) - Grounding Conversion | SH-18 | SCE will complete grounding conversion at **one** location, subject to land availability. | 45%/.06% | 91%  SRA%: 70%  HCA%: 21% | SCE will target **four** locations for grounding conversion, subject to land availability  SCE will strive to target up to **6** locations for grounding conversion, subject to land availability | N/A scope not determined yet | N/A scope not determined yet | SCE will target **four** locations for grounding conversion, subject to land availability  SCE will strive to target up to **6** locations for grounding conversion, subject to land availability | N/A scope not determined yet | N/A scope not determined yet | Listing of completed Work Orders |