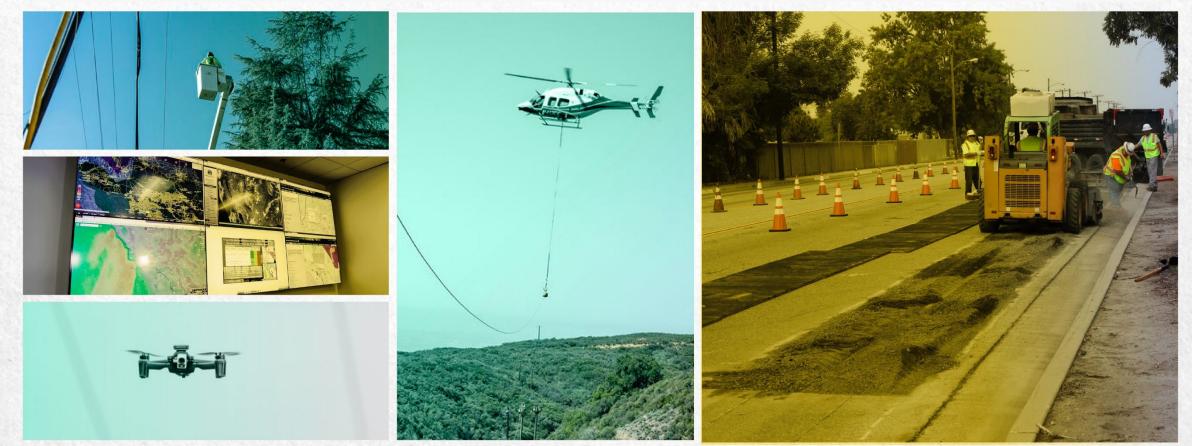


WILDFIRE SAFETY AND TARGETED UNDERGROUNDING (TUG) City of Malibu July 2025

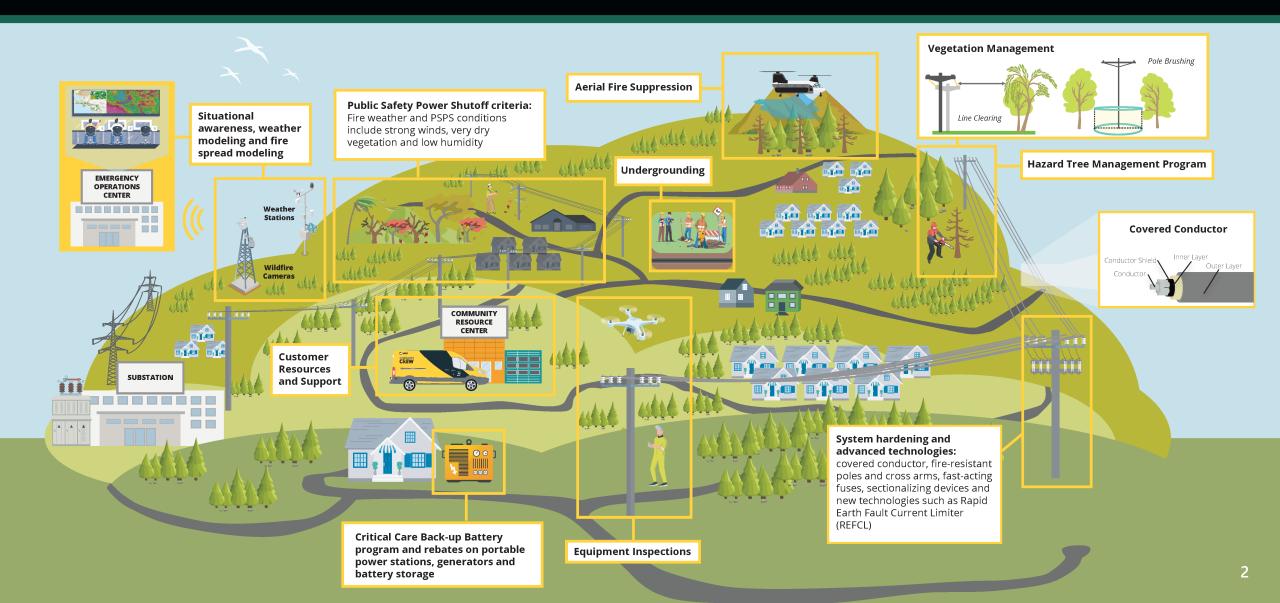
### ENABLING A CLEAN ENERGY FUTURE WHILE KEEPING OUR COMMUNITIES SAFE FROM WILDFIRES



### AGENDA

Wildfire Safety and Targeted Undergrounding (TUG) Projects Scoped in Westlake Village Impacts to Community Examples of Underground Construction Next Steps

## **REDUCING WILDFIRE RISK IN OUR COMMUNITIES**



### HARDENING ELECTRIC GRID & INFRASTRUCTURE



#### COVERED CONDUCTOR

Replacing bare wire with covered conductor to reduce faults and ignition risk from contact from objects as well as safely raise windspeed thresholds for PSPS in targeted areas. About 5,580+ miles of covered conductor installed since 2018

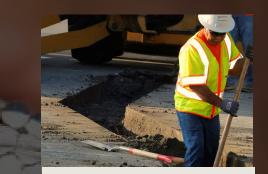


#### FIRE-RESISTANT POLES

Installing mix of composite poles and wooden poles with fire-resistant wrap to reduce risk of damaged poles during an emergency

### PROTECTIVE DEVICES

Installing fast-acting fuses and using faster grid protection settings to interrupt electric current more quickly when there's an electrical fault and remote-controlled sectionalizing devices to segment and isolate portions of circuits during PSPS events.



### TARGETED UNDERGROUNDING

Undergrounding in targeted high fire risk areas based on risk criteria and feasibility, nearly eliminating wildfire and PSPS risks associated with electric facilities. More than 29 miles of undergrounding completed since 2021. SCE's refined integrated wildfire mitigation strategy considers wildfire risk drivers and PSPS risk at circuit segments and mitigations that cost effectively addresses those risk drivers. We continue to prioritize hardening our riskiest areas first.

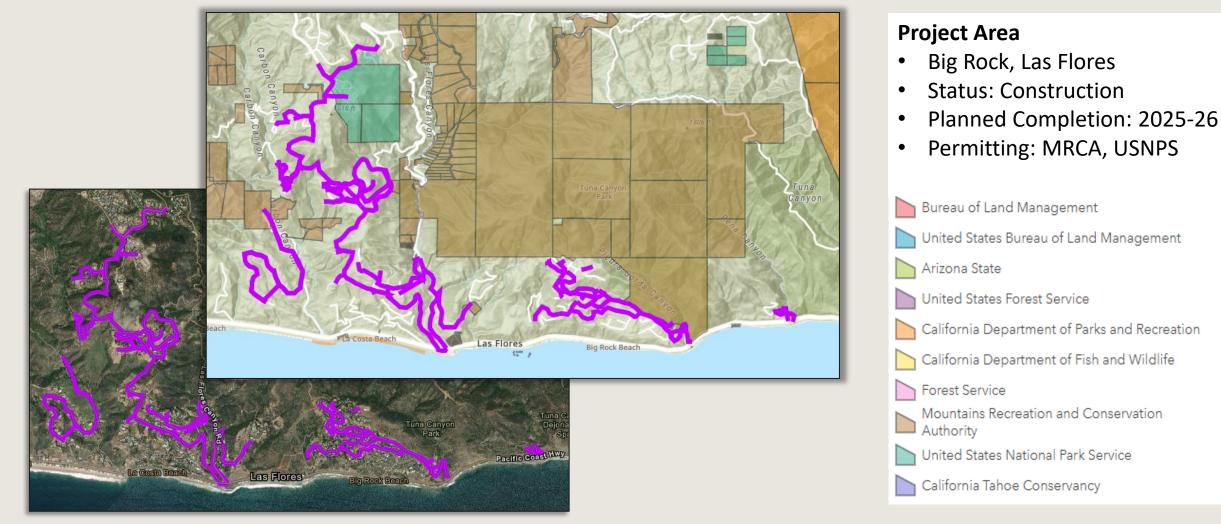
	<b>Risk Designation</b>	Risk Criteria	Mitigation Selection	
Total High Fire Risk Area (HFRA) Overhead Distribution Segments (Total of ~9,600 circuit miles, of which about 58% is already hardened)	<b>Severe Risk Areas</b> (~3,225 circuit miles) <sup>1</sup>	Fire risk egress constrained locations, extreme high wind areas, and extreme consequence areas	Pursue undergrounding unless covered conductor already installed or specific terrain not practical for undergrounding and necessitates feasible alternative mitigations	
	<b>High Consequence</b> (~4,450 circuit miles)	Locations that meet 300-acre consequence threshold at 8 hours or at risk of Public Safety Power Shutoff (PSPS)	Pursue covered conductor plus other mitigations such as asset inspections, vegetation management, and fast curve settings	
	<b>Other HFRA</b> (~1,875 circuit miles)	Locations that are not in a Severe Risk Area and do not meet High Consequence criteria	Naturally replace retired or damaged bare wire with covered conductor per high fire risk area standard; continue mitigations such as asset inspections, vegetation management, and fast-curve settings	

<sup>1</sup>Based on initial feasibility analysis of circuit miles in severe risk areas, several hundred miles currently under consideration for additional enhanced mitigation, including undergrounding

## 2025-2028 TARGETED UNDERGROUNDING CIRCUITS THE CITY OF MALIBU

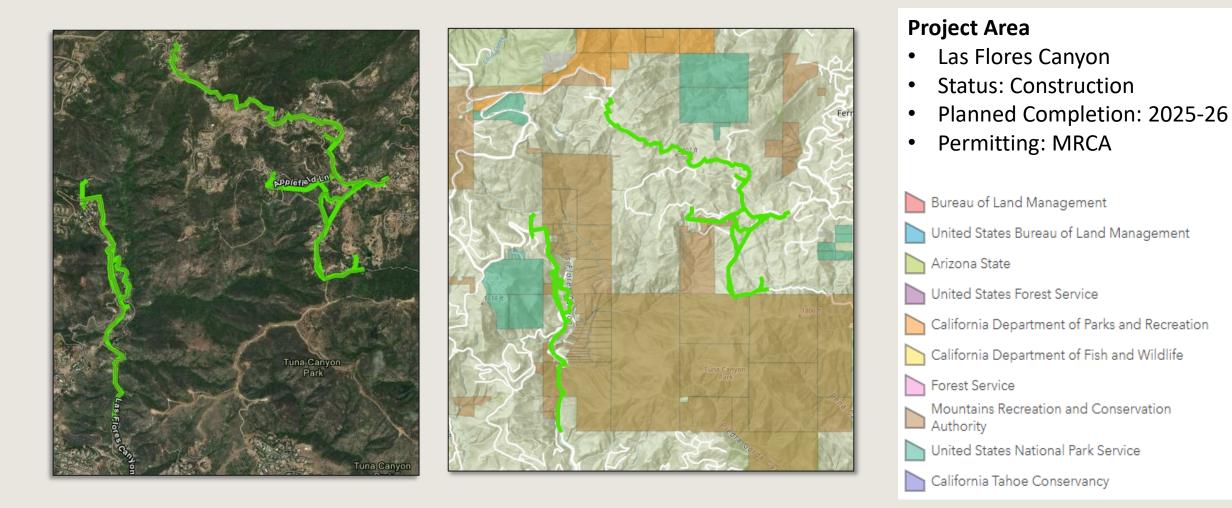
Anticipated Year of Construction	Circuit Name	Current Status	Location	Mileage OH Removed
2025-2026	Nicholas (535020) Nicholas (635046)	Construction Fire Rebuild	Malibu, LA Co Uninc	9.6 6.4
2026	Merlin	Permitting	Malibu, LA Co Uninc	13.78
2026	Cuthbert	Permitting	Malibu, LA Co Uninc	6.3
2026	Serra (635036) Serra (535023)	Planning/Design	Malibu, LA Co Uninc (Sleeper Cyn)	8 4.4
2028	Tuna	Planning/Design	Malibu – Zuma	0.7
2024-2026	Vicasa (635047) Vicasa (IWP045242)	Construction Fire Rebuild Multiple Years	LA Co Uninc Topanga Canyon	5.94 2.56

### NICHOLAS CIRCUIT 565020 (REBUILD SCOPE IN DESIGN)



<u>Please note</u>: SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

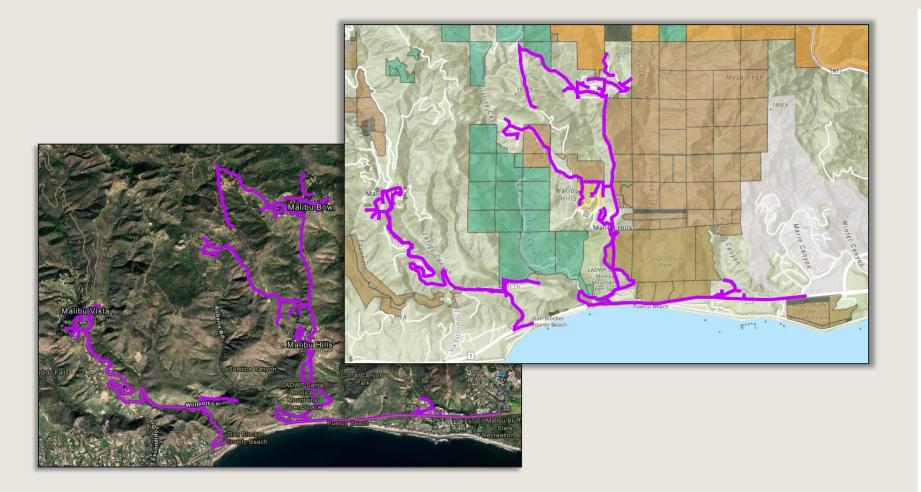
### NICHOLAS CIRCUIT 635046 (REBUILD SCOPE IN DESIGN)



Subject to change due to feasibility, permitting and approvals

<u>Please note</u>: SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### **MERLIN CIRCUIT**



**Project Area** 

- Malibu, LA Co (Malibu Hills)
- Status: Permitting
- Planned Completion: 2026
- Permitting: MRCA, USNPS, Coastal, CA Parks & Rec.

Bureau of Land Management
United States Bureau of Land Management
Arizona State
United States Forest Service
California Department of Parks and Recreation
California Department of Fish and Wildlife
Forest Service
Mountains Recreation and Conservation Authority
United States National Park Service
California Tahoe Conservancy

Subject to change due to feasibility, permitting and approvals

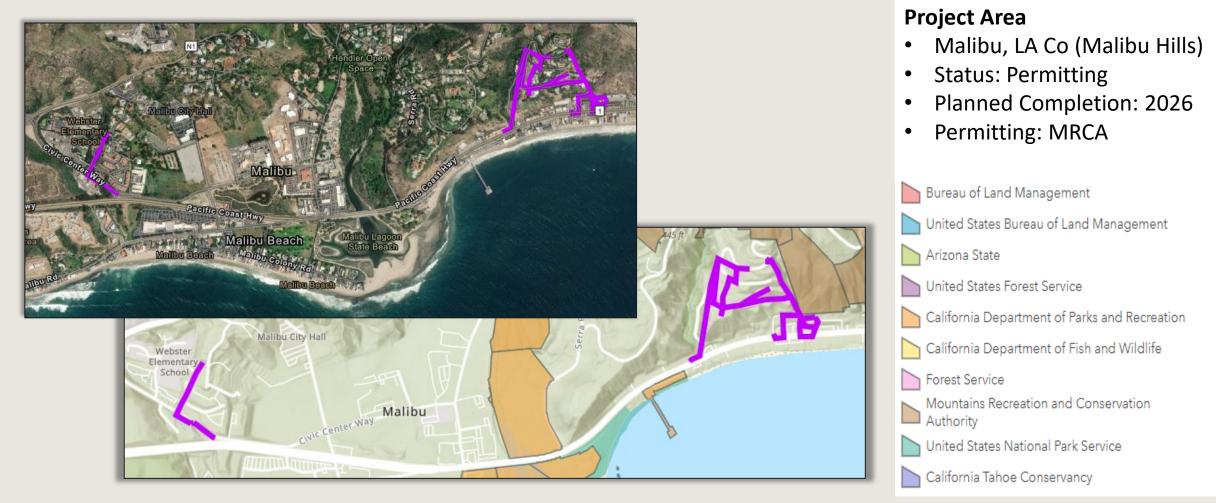
<u>Please note</u>: SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### **CUTHBERT CIRCUIT**



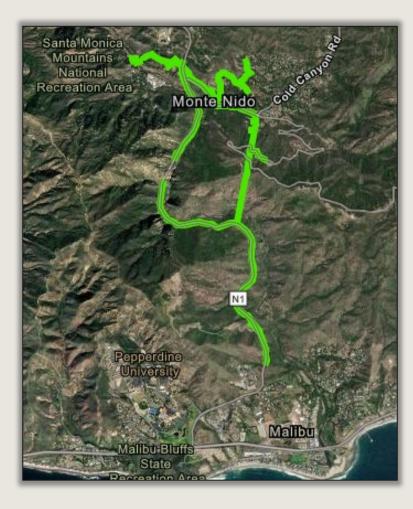
<u>Please note</u>: SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

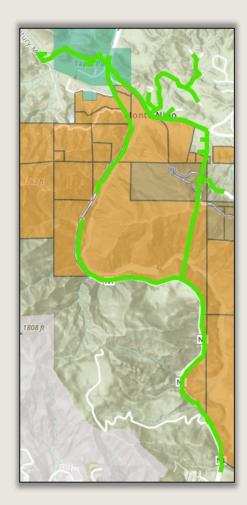
### **TUNA CIRCUIT**



<u>Please note:</u> SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### **SERRA CIRCUIT 635036**





#### **Project Area**

- Malibu, LA Co (Monte Nido)
- Status: Permitting
- Planned Completion: 2026
- Permitting: MRCA, LA Co, CA Parks & Rec

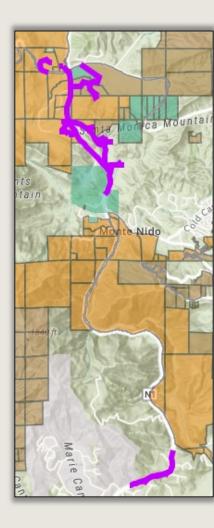
 Bureau of Land Management
 United States Bureau of Land Management
 Arizona State
 United States Forest Service
 California Department of Parks and Recreation
 California Department of Fish and Wildlife
 Forest Service
 Mountains Recreation and Conservation Authority
 United States National Park Service
 California Tahoe Conservancy

Subject to change due to feasibility, permitting and approvals

<u>Please note</u>: SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### SERRA CIRCUIT 535023





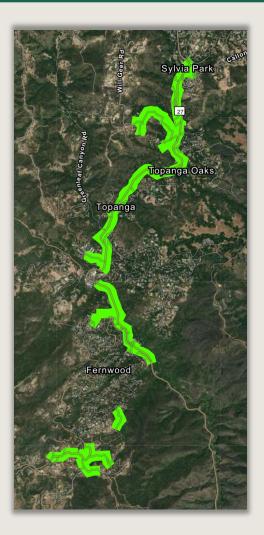
#### **Project Area**

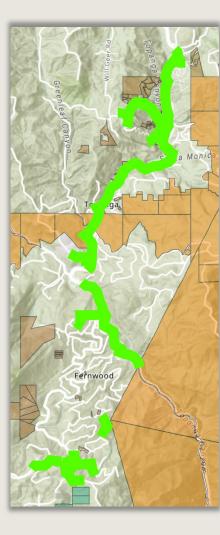
- Malibu, LA Co (Sleeper Cyn)
- Status: Permitting
- Planned Completion: 2026
- Permitting: MRCA, LA Co, CA Parks & Rec, USNPS
   Bureau of Land Management
   United States Bureau of Land Management
  - Arizona State
  - United States Forest Service
- California Department of Parks and Recreation
- California Department of Fish and Wildlife
- Forest Service
- Mountains Recreation and Conservation Authority
- United States National Park Service
- California Tahoe Conservancy

Subject to change due to feasibility, permitting and approvals

<u>Please note:</u> SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### VICASA CIRCUIT 365047





#### **Project Area**

- LA Co (Topanga Canyon)
- Status: Permitting
- Planned Completion: 2026
- Permitting: MRCA, LA Co, CA Parks & Rec

 Bureau of Land Management
 United States Bureau of Land Management
 Arizona State
 United States Forest Service
 California Department of Parks and Recreation
 California Department of Fish and Wildlife
 Forest Service
 Mountains Recreation and Conservation Authority
 United States National Park Service
 California Tahoe Conservancy

Subject to change due to feasibility, permitting and approvals

<u>Please note:</u> SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### VICASA CIRCUIT IWP045242





#### **Project Area**

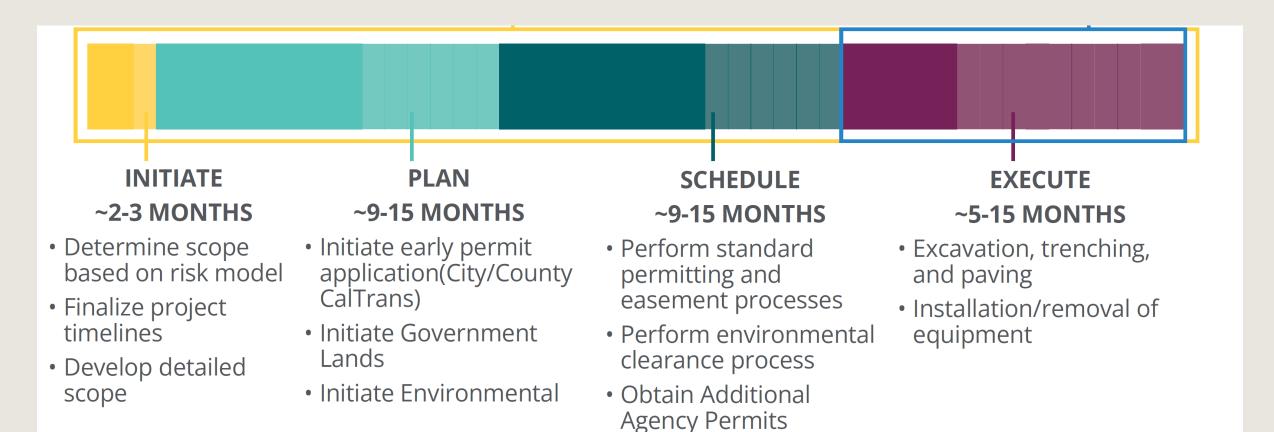
•

- LA Co (Topanga Canyon)
- Status: Permitting
- Planned Completion: 2026
- Permitting: LA Co, CA Parks & • Rec, Coastal Comm, Caltrans Bureau of Land Management United States Bureau of Land Management Arizona State United States Forest Service California Department of Parks and Recreation California Department of Fish and Wildlife Forest Service Mountains Recreation and Conservation Authority United States National Park Service California Tahoe Conservancy

Subject to change due to feasibility, permitting and approvals

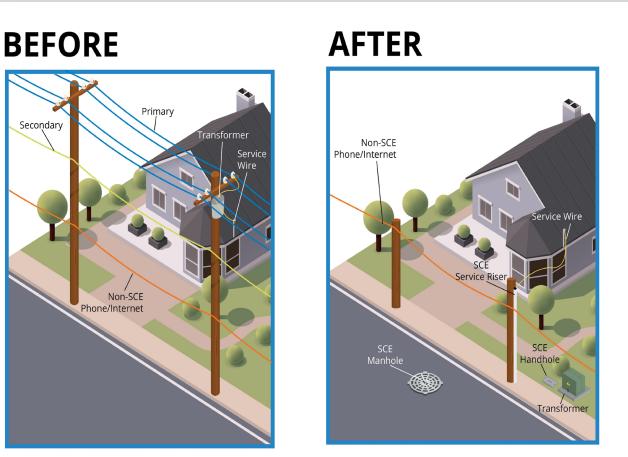
<u>Please note</u>: SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### **PROJECT TIMING**



### **ΙΜΡΑCTSTOCOMMUNITY**

- Work activities performed by civil construction include excavation, trenching, vault/manhole/conduit installation, and asphalt restoration.
- As civil construction progresses, electrical construction will follow behind with pulling cable through the new UG structures and energize the circuit in phases.
- Energization may require temporary outages. Outage notifications will be communicated, in advance, to affected residential and business customers.
- Electrical construction will also remove the existing overhead primary electrical lines and associated equipment (e.g. transformer, switches).
- Poles with other non-SCE equipment on the poles including telephone, cable and internet lines and SCE service line that feed customer property will remain.



\*For illustrative purposes only

### **EXAMPLE OF UNDERGROUND CONSTRUCTION**

Work activities performed by civil construction include excavation, trenching, vault/manhole/conduit installation, and asphalt restoration.











- Partner with City on customer engagement and outreach activities and timing
- Determine engagement cadence to keep City informed, address questions/concerns, share best practices, and keep projects moving forward

### **HELPFUL INFORMATION & RESOURCES**

#### SCE Wildfire Webpage – <u>sce.com/wildfire</u>

#### **SCE** Notifications

- Sign up for PSPS alerts <u>sce.com/pspsalerts</u>
- Sign up for the Energized by Edison Wildfire Mitigation Newsletter energized.edison.com/newsletter

#### **Situational Awareness**

- SCE outage map <u>sce.com/outagemap</u>
- PSPS information <u>sce.com/psps</u>
- PSPS decision making sce.com/pspsdecisionmaking
- Role of weather in PSPS <u>sce.com/fireweather</u>
- Weather awareness for PSPS sce.com/wildfire/weather-awareness
- Situational awareness map sce.com/wildfire/situational-awareness
- Wildfire cameras <u>alertwildfire.org</u>
- Weather stations sce.com/weatherstations
- CPUC wildfire maps <u>ia.cpuc.ca.gov/firemap/</u>

#### Preparedness

- SCE emergency preparedness <u>sce.com/beprepared</u>
- CAL FIRE preparedness <u>readyforwildfire.org</u>

#### **Vegetation Management**

 Vegetation Management – <u>sce.com/safety/power-lines</u>; contact 1-800-655-4555 or <u>safetrees@sce.com</u>

#### Targeted Undergrounding

 Targeted Undergrounding – <u>sce.com/tug</u>; contact 1-888-331-0010 or <u>SCEprojects@sce.com</u>

#### **Customer Programs & Rebates**

- SCE Customer Programs & Resources <u>sce.com/customerresources</u>
- SCE Marketplace (rebates and programs) marketplace.sce.com
- SCE Critical Care Backup Battery Program <u>sce.com/ccbb</u>
- SCE Access & Functional Needs Resources <u>sce.com/afn</u>
- SCE Medical Baseline Program <u>sce.com/medicalbaseline</u>
- Self Generation Incentive Program (SGIP) <u>sce.com/sgip</u> or <u>selfgenca.com</u>
- SCE Customer Support: 1-800-655-4555

#### **Community Meetings**

Join SCE's wildfire safety community meetings – <u>sce.com/wildfiresafetymeetings</u>

#### **Energized by Edison**

Stories and videos on SCE's wildfire safety efforts – <u>edison.com/wildfire-safety</u>

### INTEGRATED WILDFIRE MITIGATION STRATEGY PROCESS FLOW



Model identifies potential outcomes if a fire is ignited, such as the extent a fire will spread and safety, financial and other impacts

High Fire Risk Areas

Fuel Conditions

**SCE** Circuits

**Population Density** 

Structure Density

Consequence Model Assesses High Fire Risk Areas and Identify Risk Tranches

**Severe Risk Areas** 

**High Consequence** 

**Other HFRA** 

#### SME Review of Initial Assessment and Adjust/Accept Mitigation Portfolio Based On:

- inspection photos, satellite images, maps and other data
- location specific conditions, e.g., equipment present, weather conditions, terrain and topography

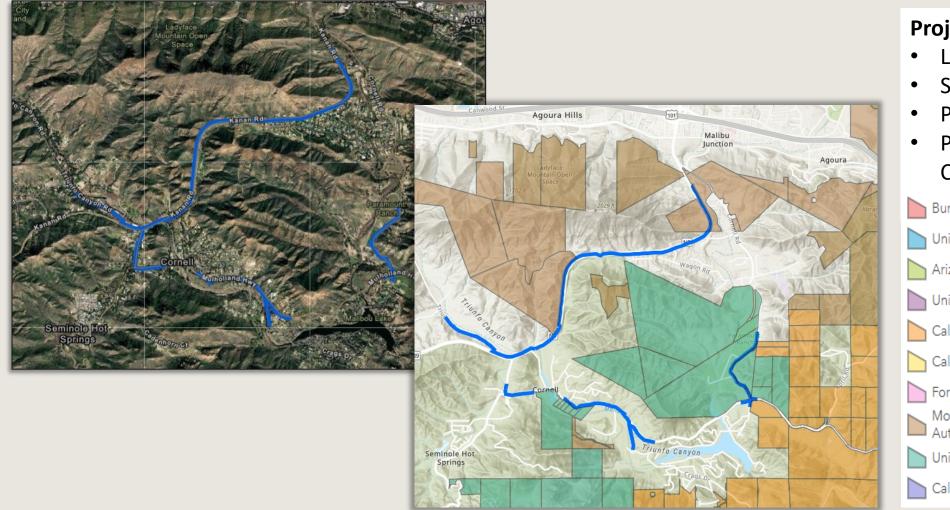
#### Scope prioritization relies on:

- Risk: probability of ignition, consequence, PSPS risk
- Operations: timeline to deploy, resource availability

# 2025-2028 TARGETED UNDERGROUNDING CIRCUITS IN THE VICINITY OF THE CITY OF MALIBU

Anticipated Year of Construction	Circuit Name	Current Status	Location	Mileage OH Removed
2024-2026	Mulholland	Construction Multiple Years	LA Co (Triunfo Cyn, Malibu Lake)	6.13
2026	Paradise	Planning/Design	Calabasas, LA Co (Topanga Cyn Park)	12.1
2026	Horntoad	Planning/Design	Calabasas, LA Co	17.13
2026	Plateau (535022) Plateau (635037)	Planning/Design	Calabasas, LA Co	15.59 7.9
2027	Maguire	Planning/Design	LA/Ventura Co Uninc	18.8
2024-2026	<u>Vicasa (535031)</u>	COMPLETED	LA Co (Topanga Cayn)	3.5

### **MULHOLLAND CIRCUIT**



Project Area

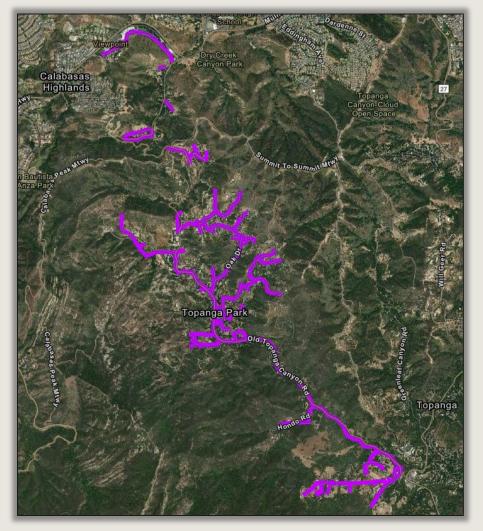
- LA Co Uninc (Malibu Lake)
- Status: Permitting
- Planned Completion: 2026
- Permitting: MRCA, USNPS, CA Parks & Rec

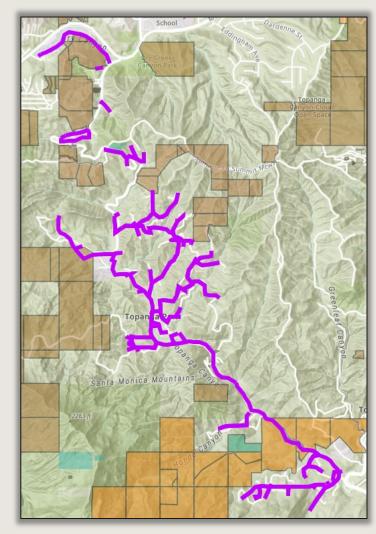


<sup>o</sup> Subject to change due to feasibility, permitting and approvals

<u>Please note:</u> SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### PARADISE CIRCUIT





#### **Project Area**

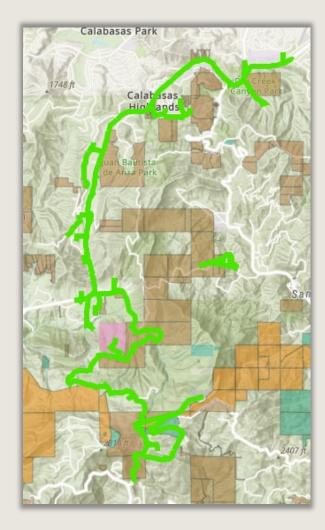
- Calabasas, LA Co Uninc (Topanga Park/Canyon)
- Status: Planning/Design
- Planned Completion: 2026
- Permitting: MRCA, CA
   Parks & Rec

 Bureau of Land Management
 United States Bureau of Land Management
 Arizona State
 United States Forest Service
 California Department of Parks and Recreation
 California Department of Fish and Wildlife
 Forest Service
 Mountains Recreation and Conservation Authority
 United States National Park Service
 California Tahoe Conservancy

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### HORNTOAD CIRCUIT





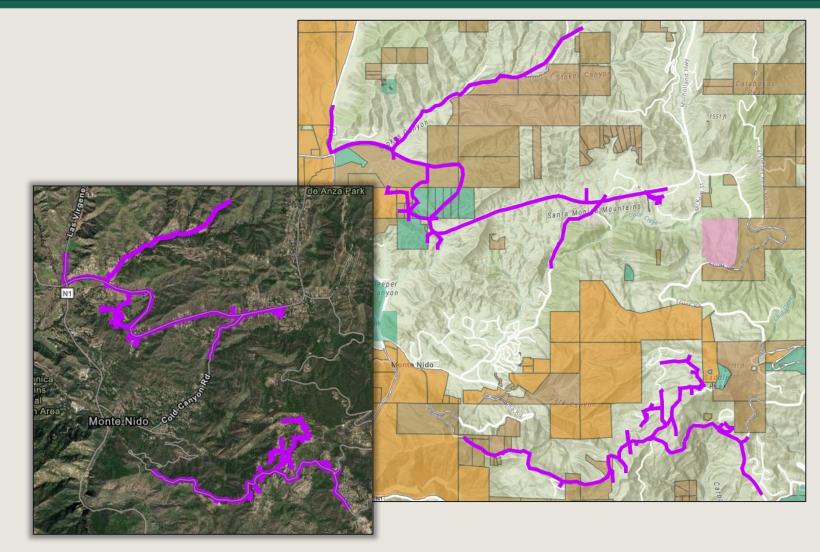
#### Project Area

- Calabasas, LA Co Uninc
- Status: Planning/Design
- Planned Completion: 2026
- Permitting: MRCA, UC, CA
   Parks & Rec, SMMNRA



<u>Please note:</u> SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### PLATEAU CIRCUIT 535022



#### **Project Area**

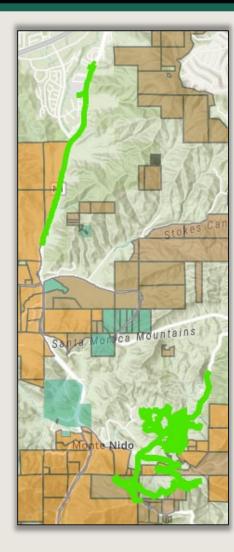
- Calabasas, LA Co Uninc (Monte Nido, Saddle Peak)
- Status: Planning/Design
- Planned Completion: 2026
- Permitting: MRCA, USNPS, CA Parks & Rec

 Bureau of Land Management
 United States Bureau of Land Management
 Arizona State
 United States Forest Service
 California Department of Parks and Recreation
 California Department of Fish and Wildlife
 Forest Service
 Mountains Recreation and Conservation Authority
 United States National Park Service
 California Tahoe Conservancy

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### PLATEAU CIRCUIT 635037





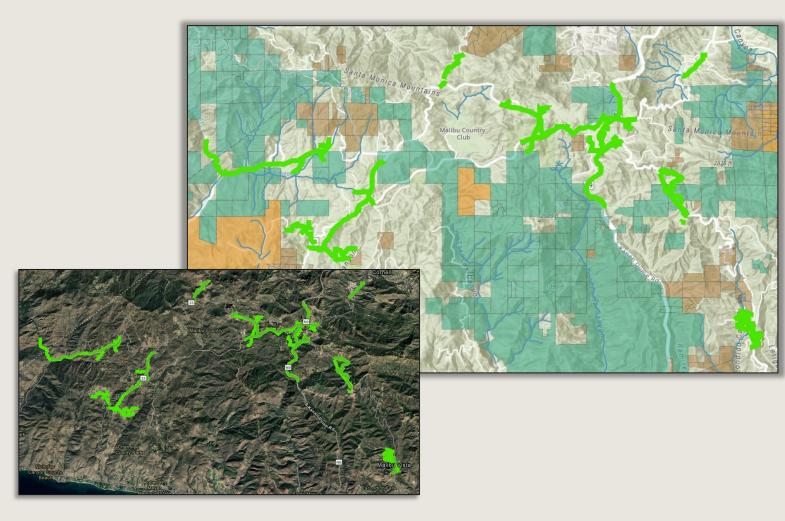
#### Project Area

- Calabasas, LA Co Uninc
- Status: Planning/Design
- Planned Completion: 2026
- Permitting: MRCA, CA
   Parks & Rec



<u>Please note:</u> SCE will reach out to affected Joint Owners and share intent to underground electric facilities. SCE will weigh interest in potential joint undergrounding.

### **MAGUIRE CIRCUIT**



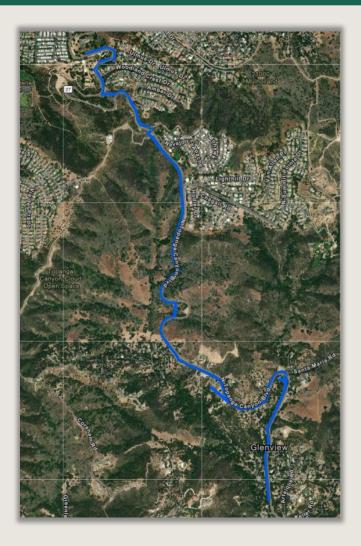
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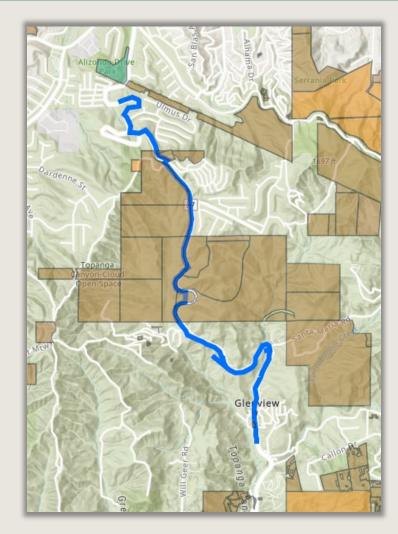
#### **Project Area**

- LA and Ventura Co Uninc
- Status: Planning/Design
- Planned Completion: 2027
- Permitting: MRCA, USNPS



### VICASA CIRCUIT 335531 - COMPLETED





#### **Project Area**

- LA Co (Topanga Canyon)
- Status: Permitting
- Planned Completion: 2026
- Permitting: MRCA, LA Co, CA Parks & Rec.

Bureau of Land Management
United States Bureau of Land Management
Arizona State
United States Forest Service
California Department of Parks and Recreation
California Department of Fish and Wildlife
Forest Service
Mountains Recreation and Conservation Authority
United States National Park Service
California Tahoe Conservancy

Subject to change due to feasibility, permitting and approvals

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