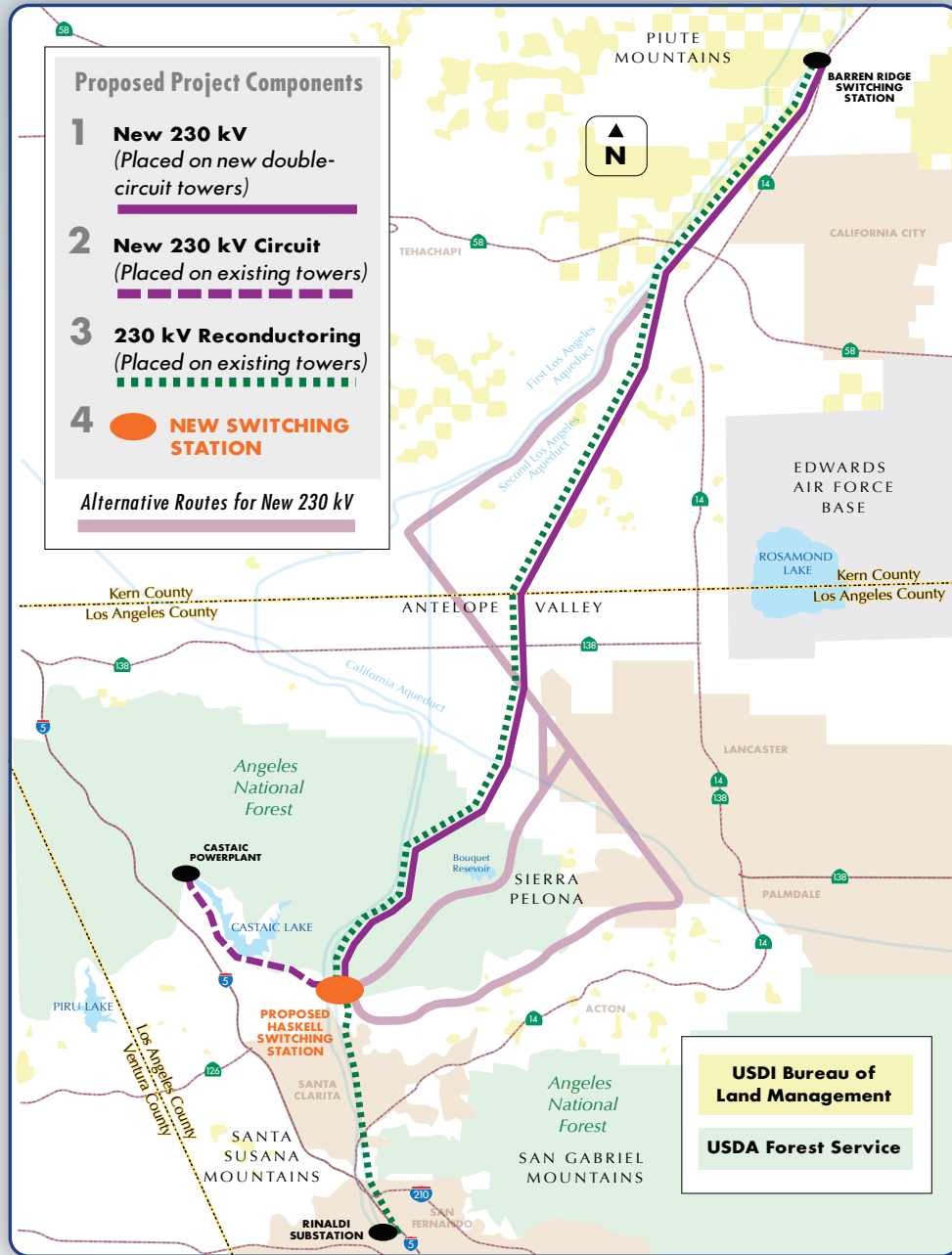


Proposed Project Map



BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Project Description

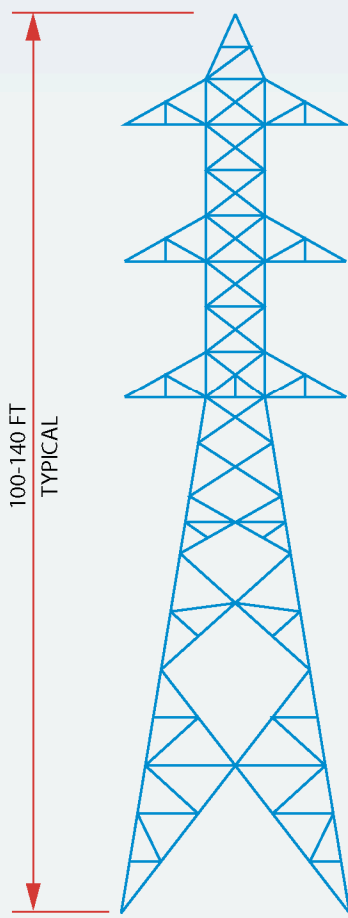
- 1** Construct approximately 60 miles of a new 230 kilovolt (kV) double circuit structure system from the LADWP Barren Ridge Switching Station to Haskell Canyon.
- 2** Install approximately 12 miles of 230 kV circuit on the existing double-circuit structures from Haskell Canyon to the Castaic Power Plant.
- 3** Upgrade the existing Owens Gorge-Rinaldi 230 kV transmission line with larger capacity conductors between the Barren Ridge Switching Station to Rinaldi Substation.
- 4** Construct a new electrical switching station at Haskell Canyon.

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT

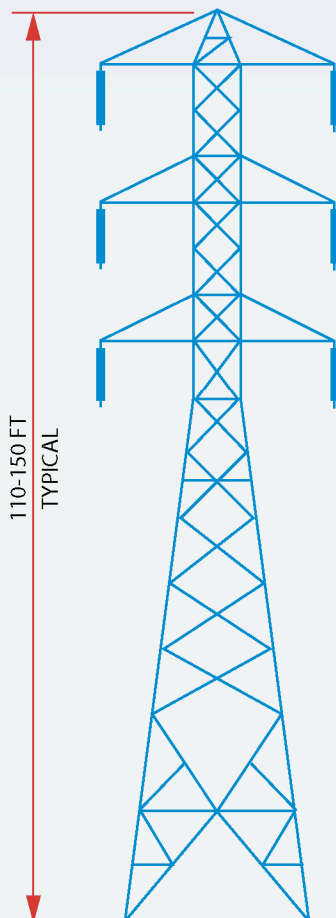


Typical Structures

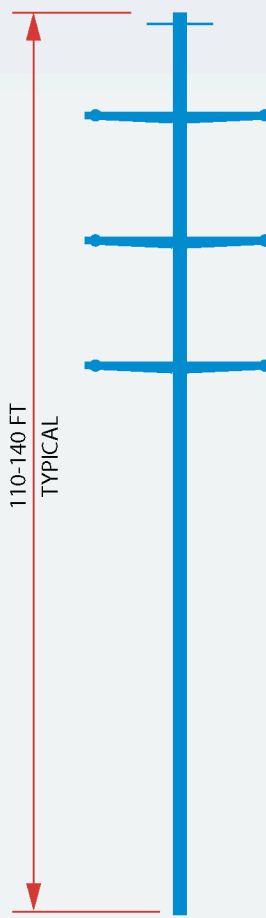
230 kV Double Circuit



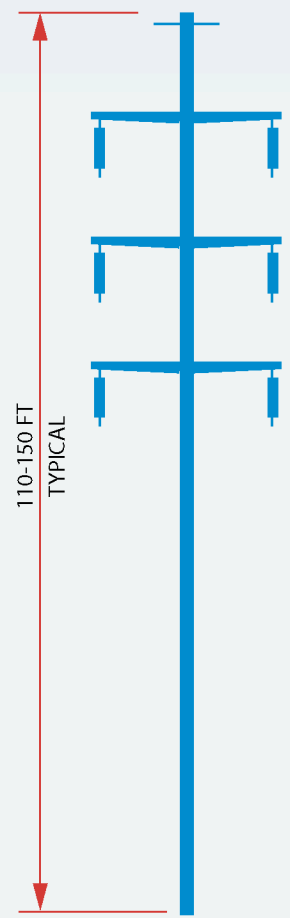
"DEADEND"



"SUSPENSION"



"DEADEND"



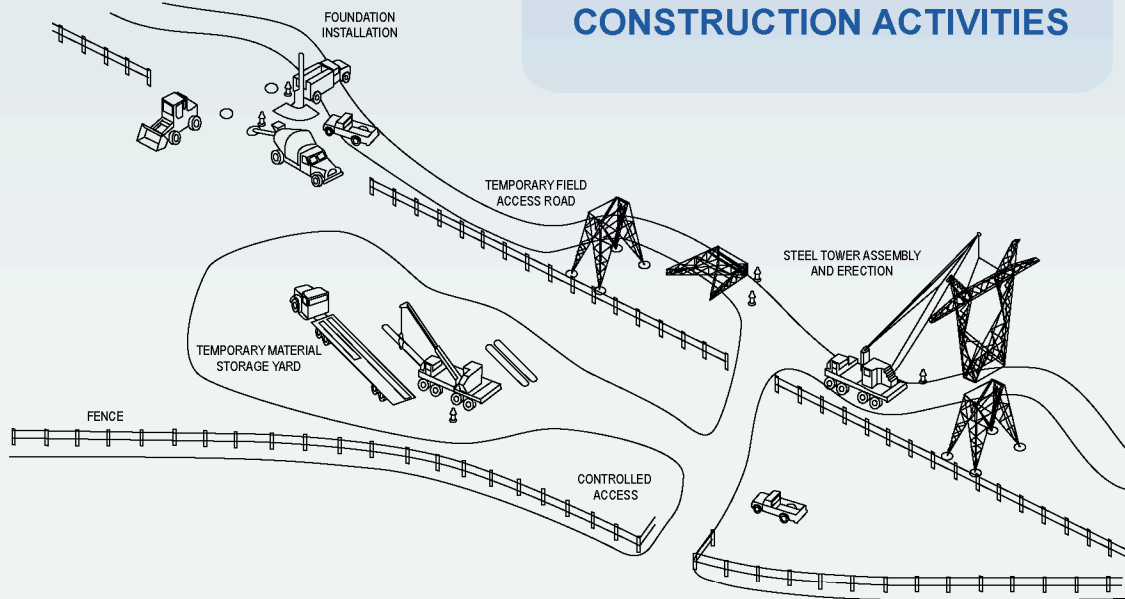
"SUSPENSION"

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT

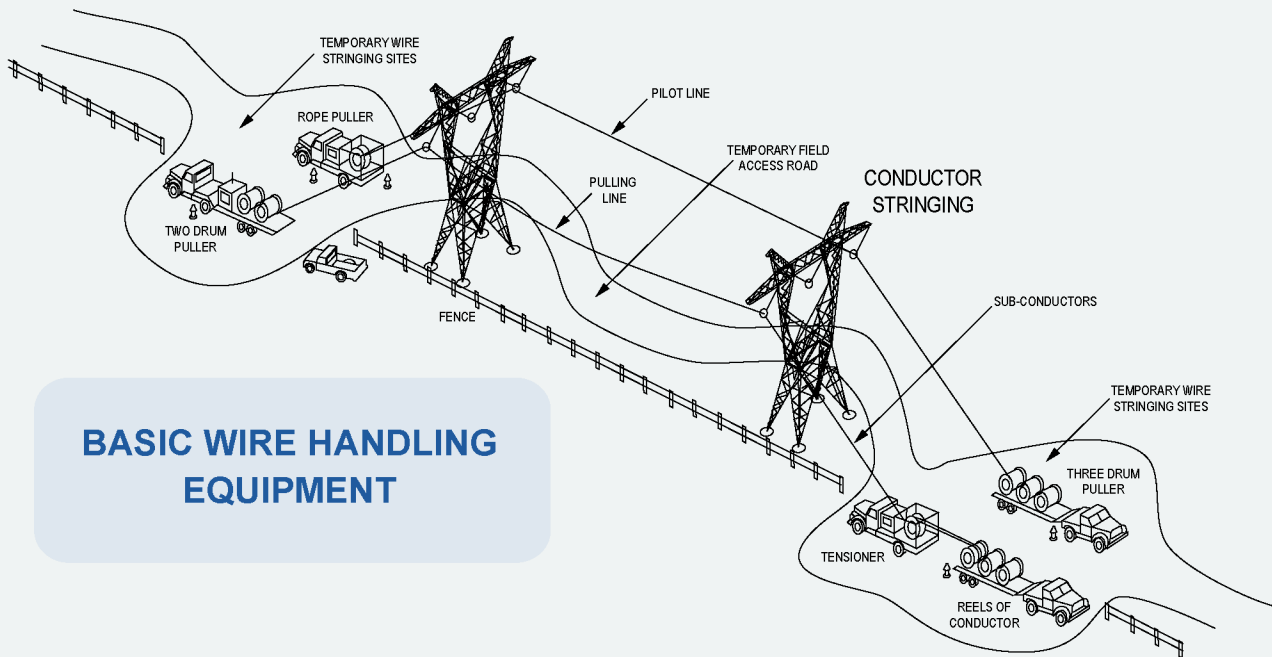


CONSTRUCTION SEQUENCE

TYPICAL TRANSMISSION LINE CONSTRUCTION ACTIVITIES



BASIC WIRE HANDLING EQUIPMENT



BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Purpose & Need

- **Reduce Greenhouse Gas (GHG) Emissions**
- **Meet Renewable Portfolio Standard (RPS) Goals**
- **Meet Electrical Energy Demands**
- **Integrate Renewable Energy Projects**
- **Deliver Renewable Energy**
- **Increase System Reliability and Flexibility**

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Environmental Benefits

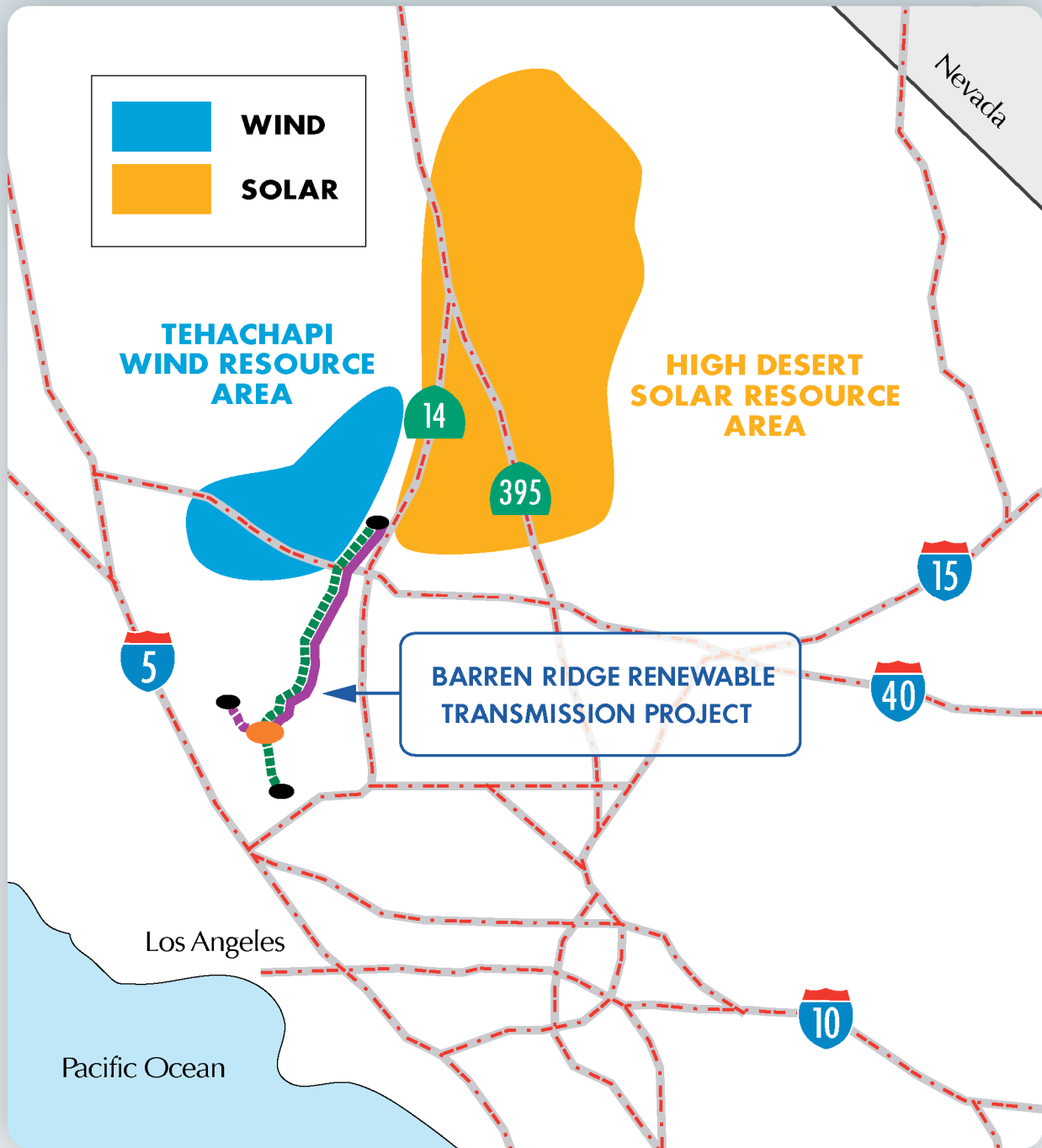
Greenhouse Gas Reduction Goals

- **35% below 1990 levels by 2030**
- The use of renewable energy from the implementation of BR RTP will provide over 25% of the emission reductions that must be achieved in order to reach the goal of 35% below 1990 levels.

Renewable Portfolio Standard Goals

- **20% by 2010**
- **35% by 2020**
- LADWP currently uses 8% renewable energy within its energy resource mix.
- The implementation of BR RTP will add approximately 12% renewable energy capacity to meet the RPS goals.

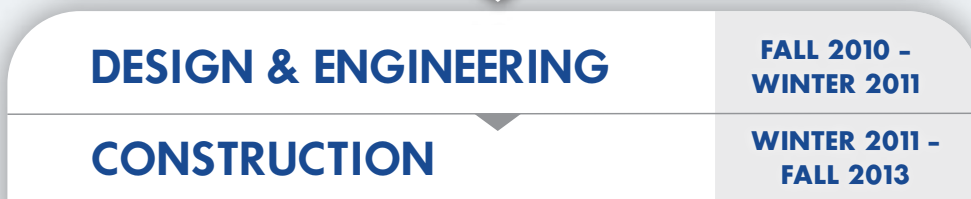
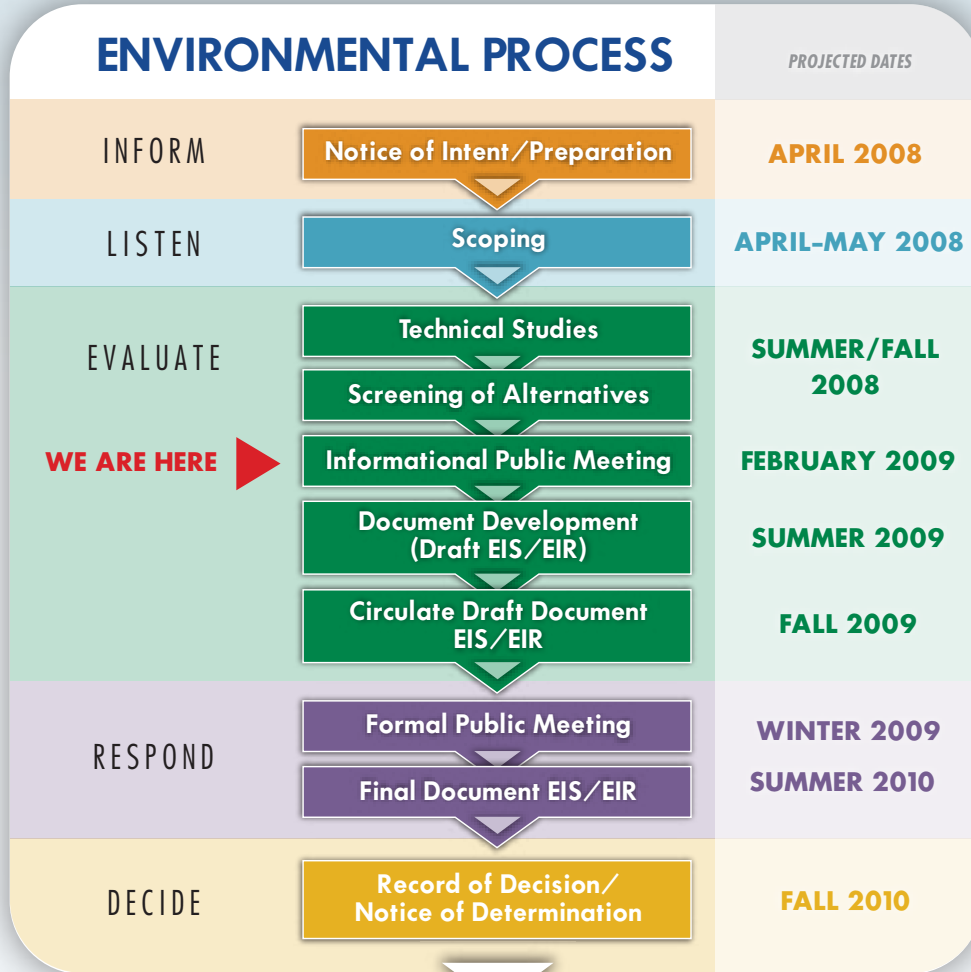
RENEWABLE RESOURCES



BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Project Timeline



Target In-Service Date: FALL 2013

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Public Scoping

Scoping was conducted to determine the scope of issues to be addressed and to identify the range of actions, alternatives, mitigation measures, and significant effects to be analyzed in the Draft EIS/EIR.

- **7 meetings held in April to May 2008**
- **Over 200 comments received:**
 - 132 from the Scoping Meetings (oral and written)
 - 59 written comments from the public
 - 34 Agencies responded
 - 2 Native American Tribes
 - 4 Town Councils
- **2 modifications identified (Green Valley and 110th Street)**
- **7 resources identified as having a potential for significant impacts**
- *Scoping Report is available at www.ladwp.com/barrenridge*

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Significant Issues

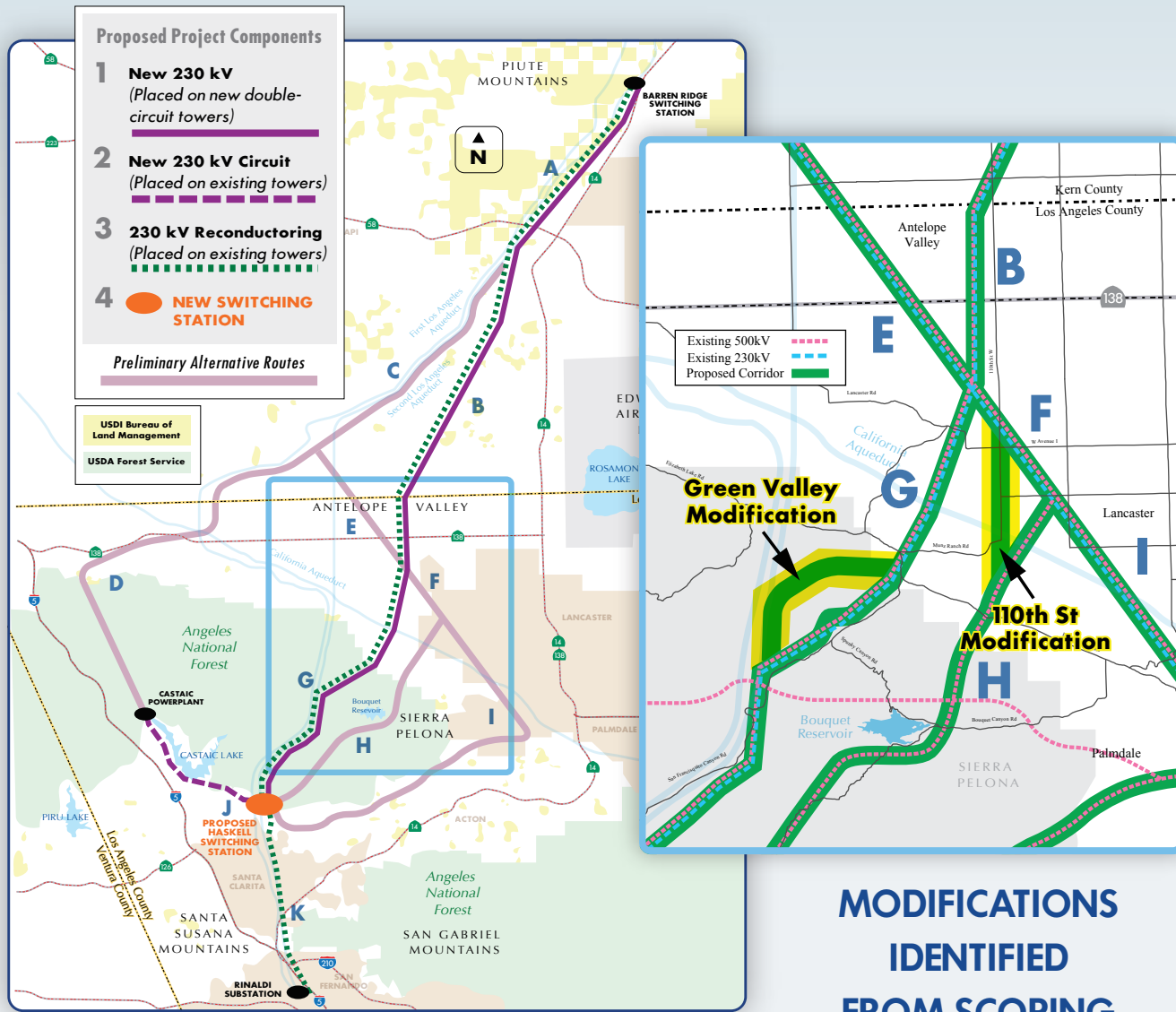
From the scoping process, significant issues were identified and are listed below. These significant issues will be used to formulate project alternatives, prescribe mitigation measures, and analyze environmental effects.

RESOURCE	POTENTIAL SIGNIFICANT IMPACTS
Biological Resources	<ul style="list-style-type: none"> • Rare, threatened, and endangered and special status species • Riparian Conservation Areas • Spread of noxious weeds • Avian species and increased raptor predation
Cultural Resources	<ul style="list-style-type: none"> • Historical, cultural and archaeological resources
Earth Resources	<ul style="list-style-type: none"> • Soils, sedimentary rocks and fossils.
Water Resources	<ul style="list-style-type: none"> • Drainages • Wetlands • Waters of the State and Waters of the U.S. • Blue-line streams
Land Use	<ul style="list-style-type: none"> • Acquisition of private property and eminent domain • Expansion of right of way and easements • Decreased property values • Conflicts with Forest Plan policies
Recreation	<ul style="list-style-type: none"> • Recreational facilities and trails. • Antelope Valley California Poppy Natural Reserve • Pacific Crest Trail • Wild and Scenic River Corridor • Wilderness.
Visual Resource	<ul style="list-style-type: none"> • Ridgeline character • Homes, communities, and businesses • Trails • State Parks • Angeles National Forest • BLM managed lands • Public lands • Additional lighting created by towers and switching station

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Modifications from Scoping

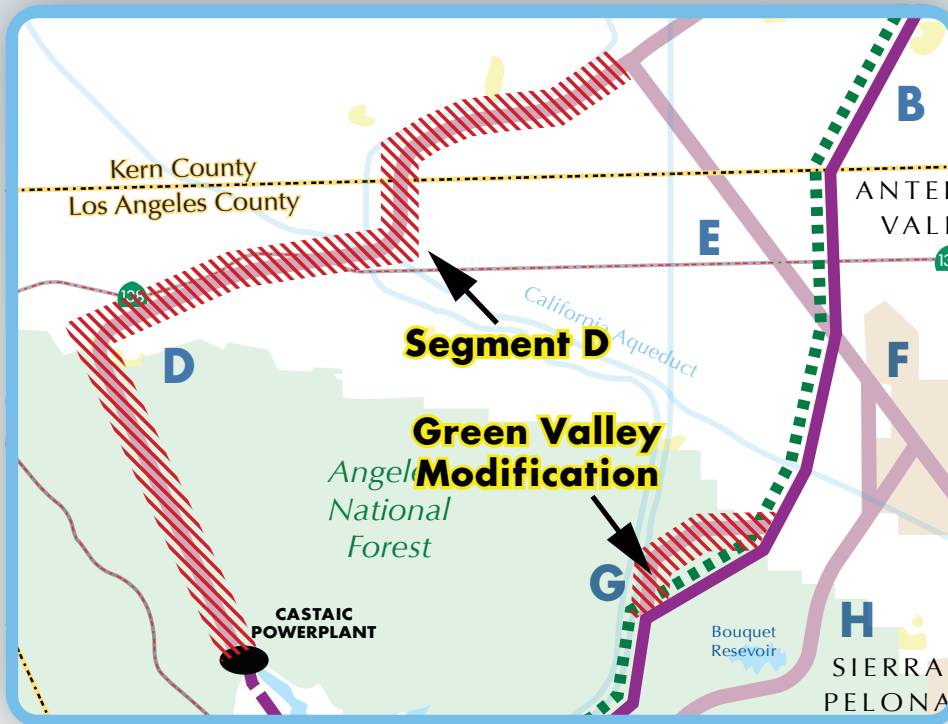


PRELIMINARY CORRIDORS

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Recommend Elimination From Further Study in EIS/EIR

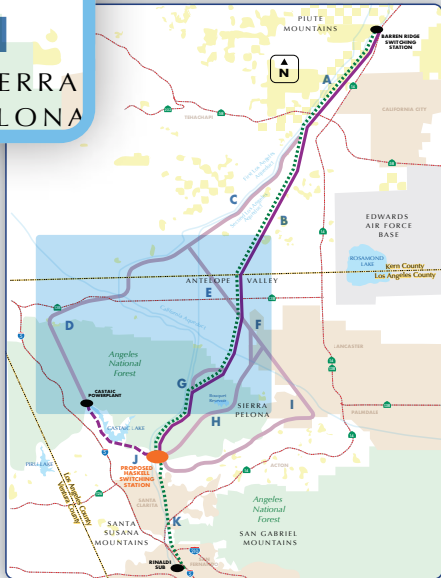


**Alternative Routes
for New 230 kV**

—————

**Recommend
Elimination**

▨▨▨▨▨▨▨▨▨▨



Segment D

- Create overloading of existing facilities
- Modifications to Castaic Power Plant
- Expansion of right-of-way
- Old Ridge Route on National Register of Historic Places
- Unstable terrain

Green Valley Modification:

- Riparian conservation areas
- Suitable habitat for Arroyo Toad
- Suitable habitat for 23 species of special-status plants
- Protected Activity Center for California Spotted Owl
- Outside designated USFS Utility Corridor
- Impacts to National Forest System lands

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Project Team

**USDA, Forest Service and
DOI, Bureau of Land Management**
NEPA Co- Lead Agencies for preparation
of Environmental Impact Statement

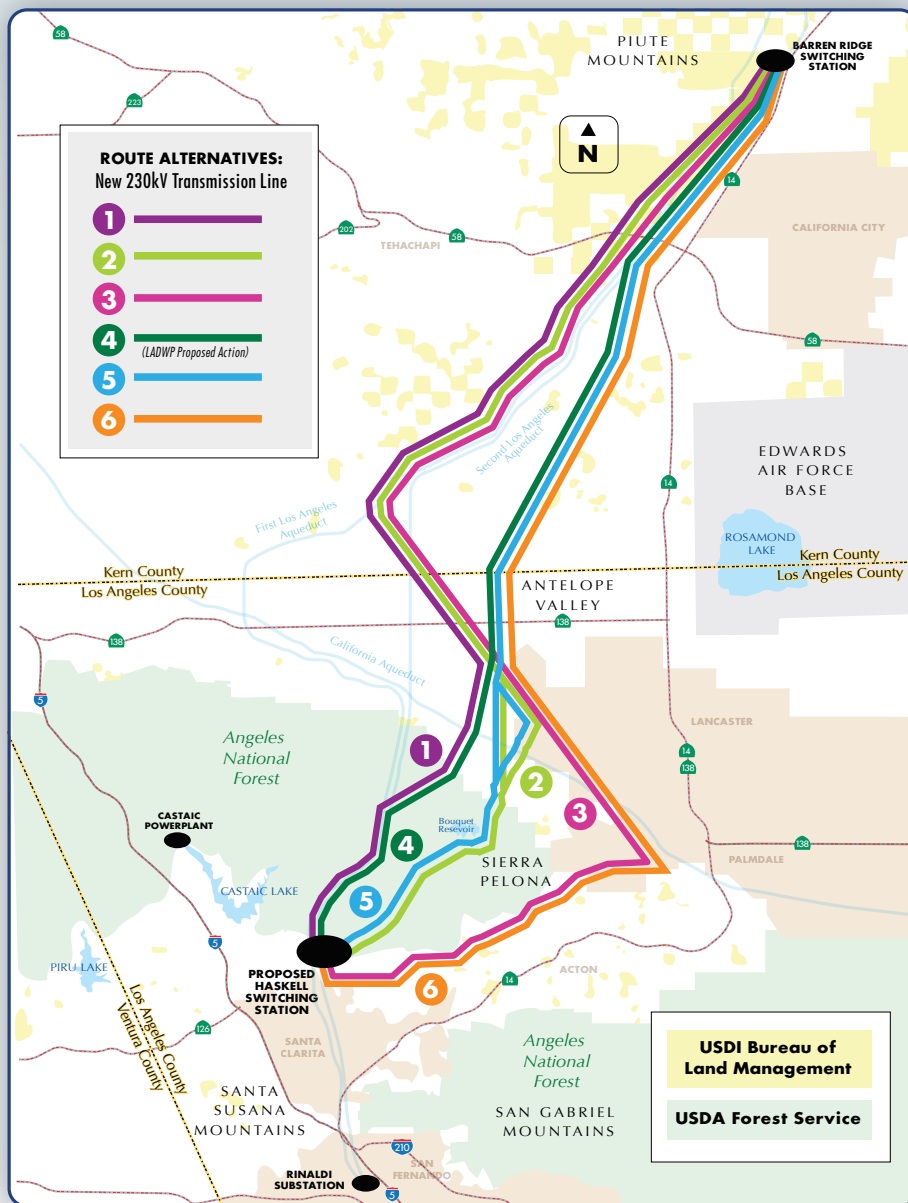
**Los Angeles Department
of Water & Power**
CEQA Lead Agency for preparation
of Environmental Impact Report

POWER Engineers, Inc.
Third party Consultant for preparation
of Environmental Impact Statement/
Environmental Impact Report (EIS/EIR)

BARREN RIDGE RENEWABLE TRANSMISSION PROJECT



Alternative Routes for New 230 kV Transmission Line



BARREN RIDGE RENEWABLE TRANSMISSION PROJECT

