

10:00 to 10:30 – Open House

10:30-11:45 – Presentation and Q&A

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Santa Cruz Reliability Project South AGENCY BRIEFING

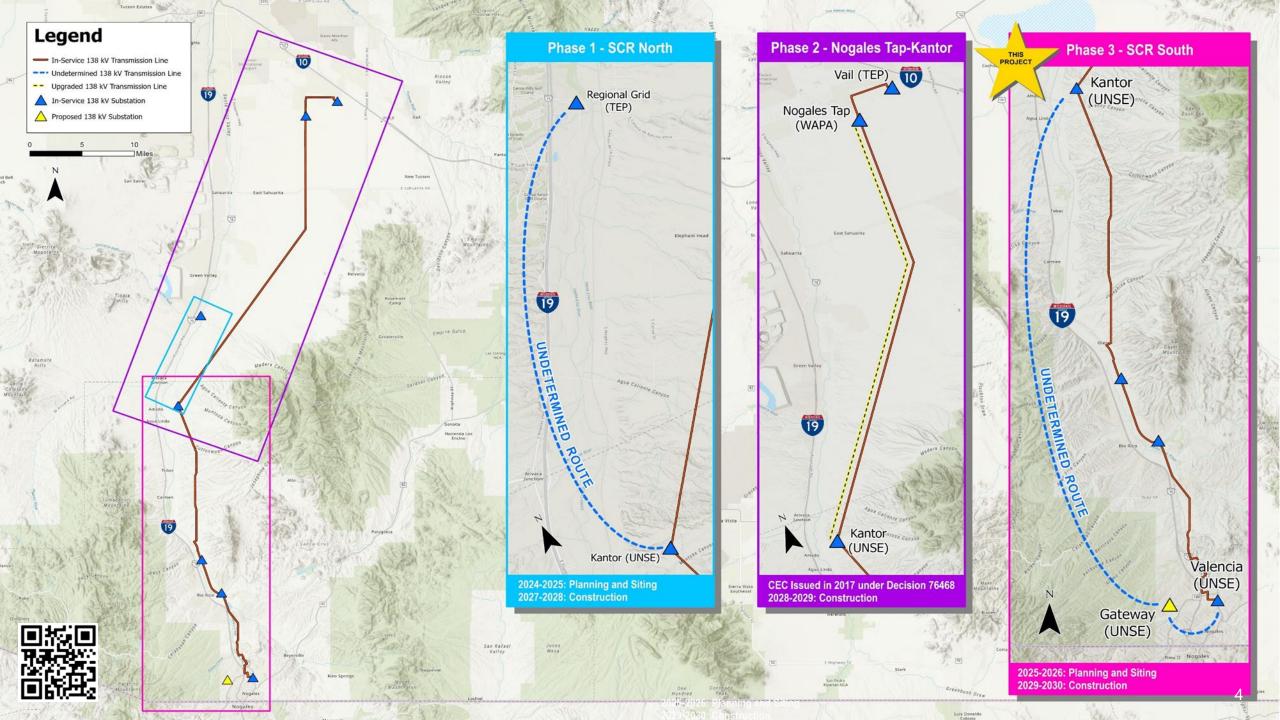
CHRIS ORTIZ Y PINO – PROJECT MANAGER, SITING, OUTREACH, & ENGAGEMENT

SEPTEMBER 2025



- 1 Santa Cruz Reliability Project Needs and Benefits
- 2 Santa Cruz Reliability Project South Project Description
- 3 UniSource's Siting and Planning Process
- 4 Suitability Assessment Refined Segments
- 5 Approvals, Schedule, & Public Participation

Agenda



Project Need & Benefits

- Improve the reliability and resiliency of the electrical transmission system serving Santa Cruz County.
- Maintain and strengthen reliability for Santa Cruz County and its residents, businesses and industries, including hospitals, schools, ports of entry and federal facilities.
- Meet current and future energy needs without impacting service to existing customer.
- Reduce and eliminate the potential for a major and sustained outage in Santa Cruz County.



 Support maintenance and other upgrades, allowing work to be performed without interrupting system operations.

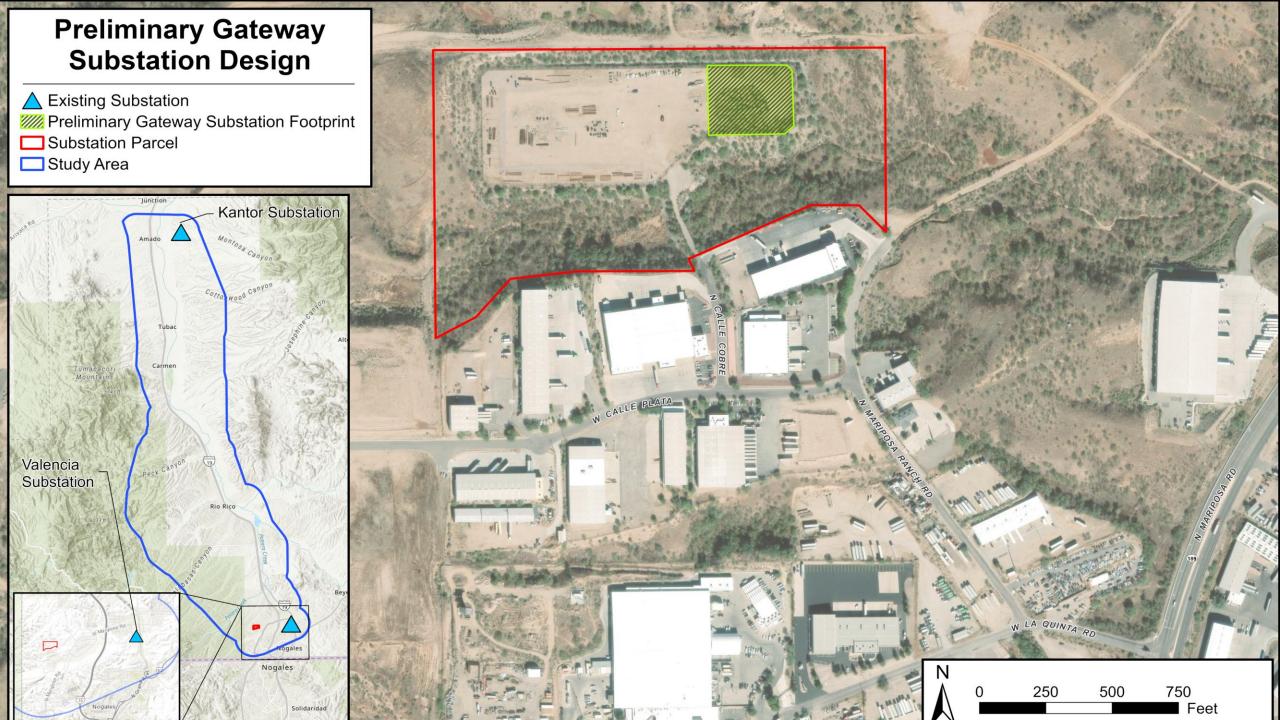


Santa Cruz Reliability Project South (Phase 3)

- Final phase of a three-phase project.
- Construct a second 138 kilovolt (kV) transmission line to interconnect the Kantor Substation in Amado to the Valencia Substation in Nogales through the planned Gateway Substation west of Interstate 19 and West Mariposa Road.
- Construct the Gateway substation and relocate distribution circuits from the Valencia Substation.





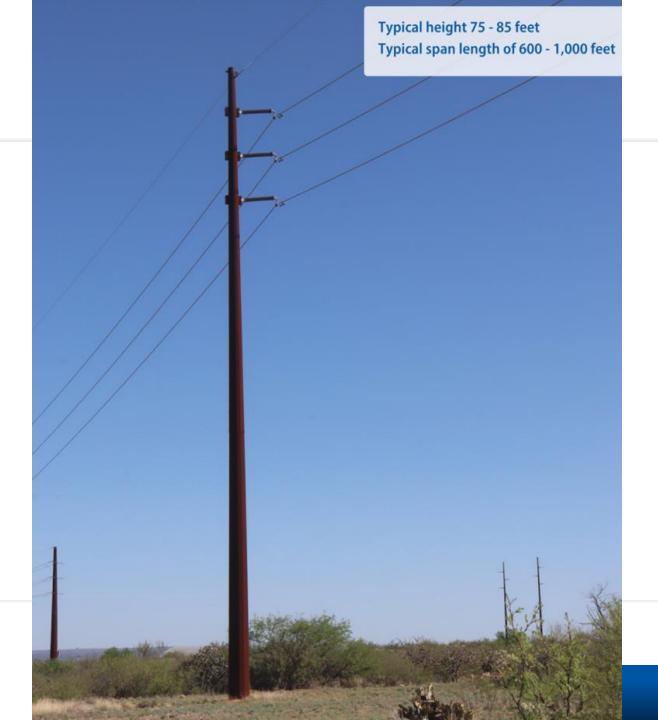


Example Pole Structure

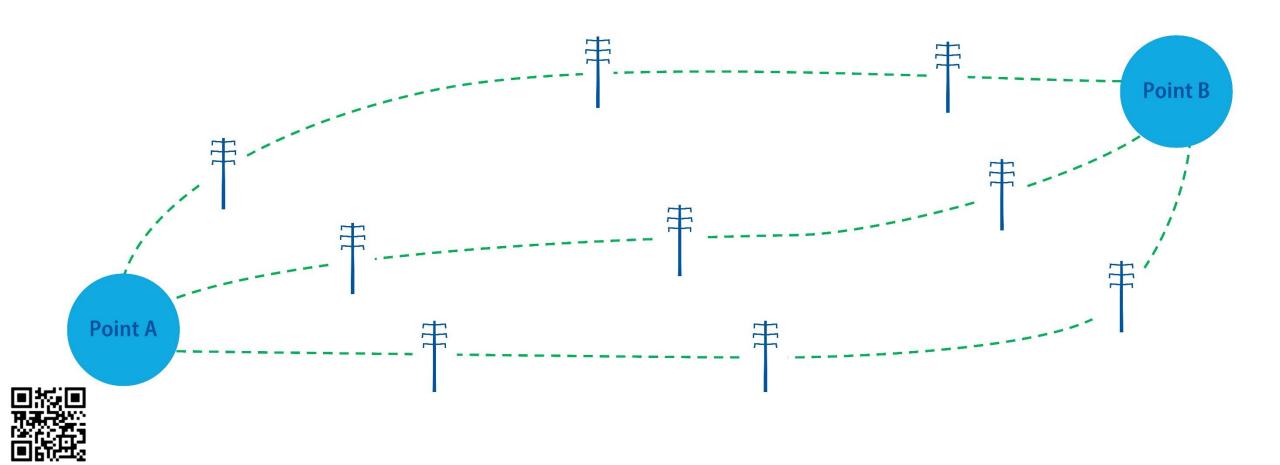
- Tubular
- Weathering Steel
- Monopoles





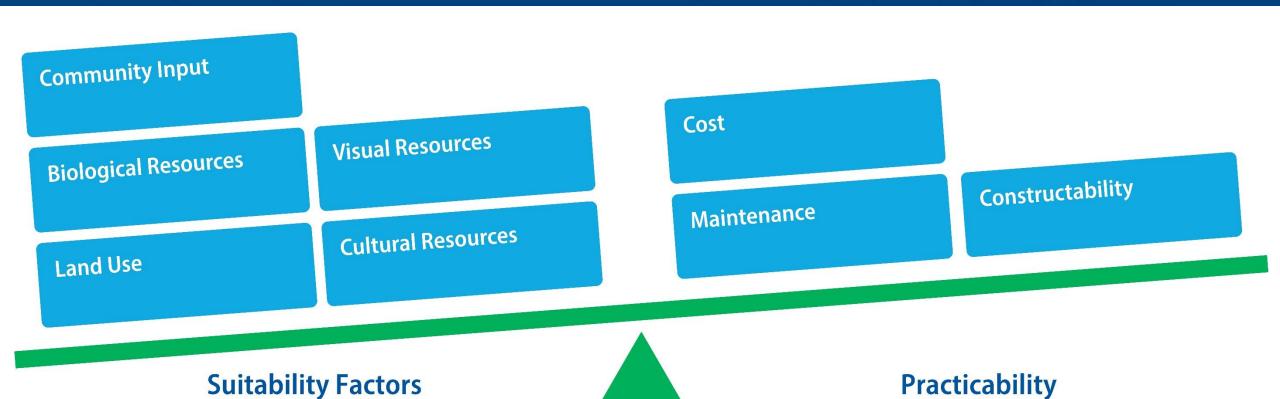


What is Siting?





Project Route Development & Evaluation





Practicability

Planning & Siting Process Flowchart

Phase 1: **Pre-Analysis**

- Conduct Field Visits
- Develop Study Area
- Identify Opportunities and Constraints
- Conduct Public and Stakeholder Outreach
- Develop Preliminary Segments

Phase 2: **Data Inventory**

 Conduct Research and Collect Data

Phase 3: **Suitability Assessment**

- Develop Suitability Models
- Conduct Suitability Assessment
- Field Review
- Conduct Public and Stakeholder Outreach
- Refine Segments

Phase 4: **Analysis**

- Conduct Compatibility **Analysis**
- Develop Route **Alternatives**
- Field Review

We Are Here



 Conduct Public and Stakeholder Outreach

Phase 5:

Concept

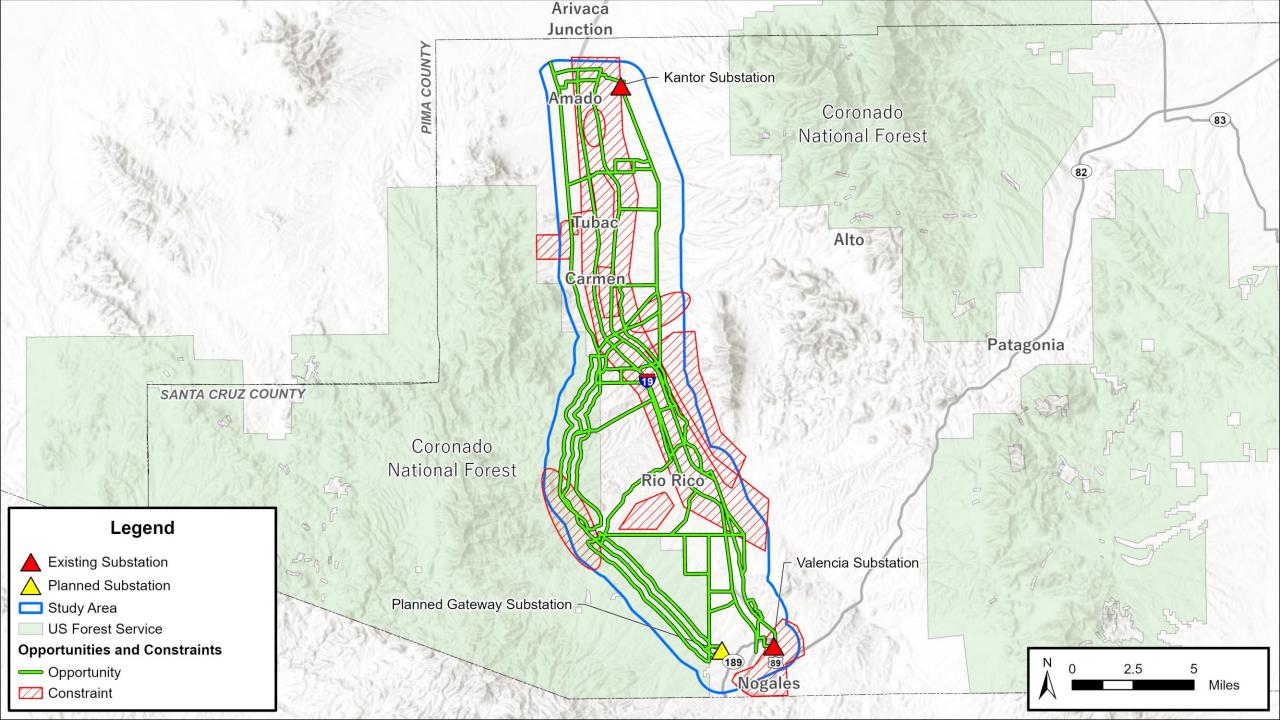
Evaluation

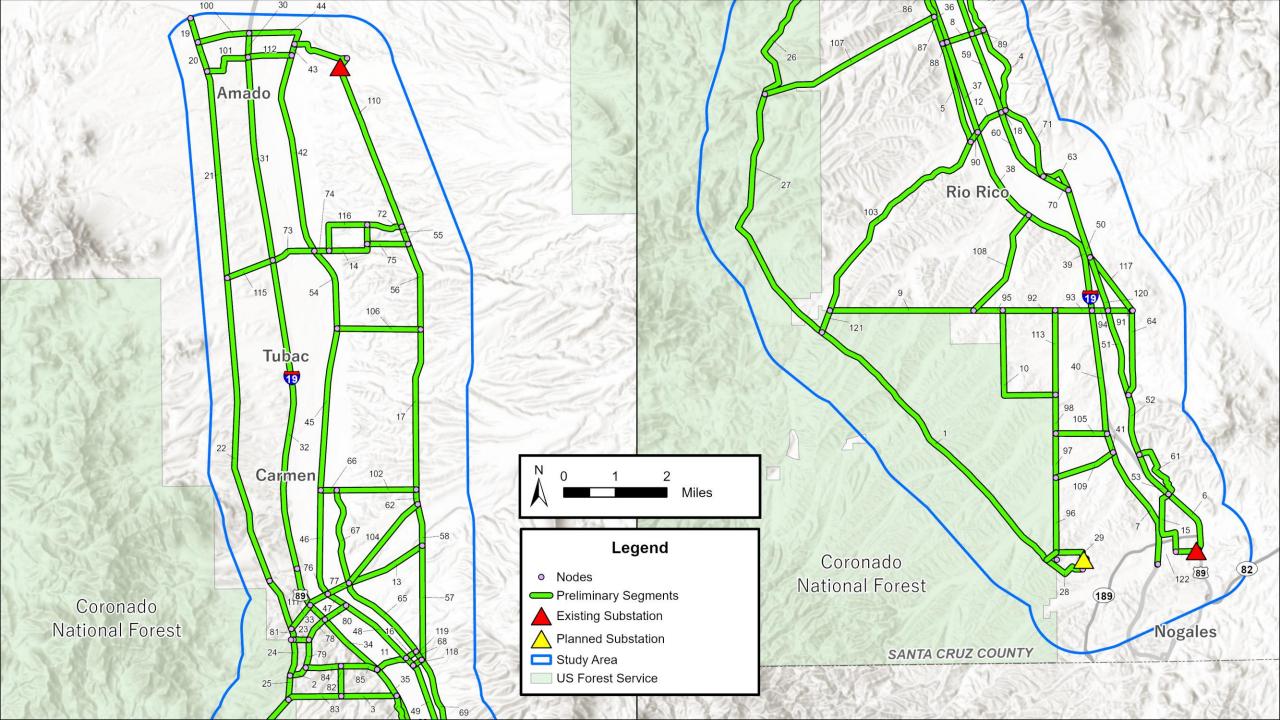
- Identify Preferred Route
- Submit CEC Application
- Public Notification and Hearing



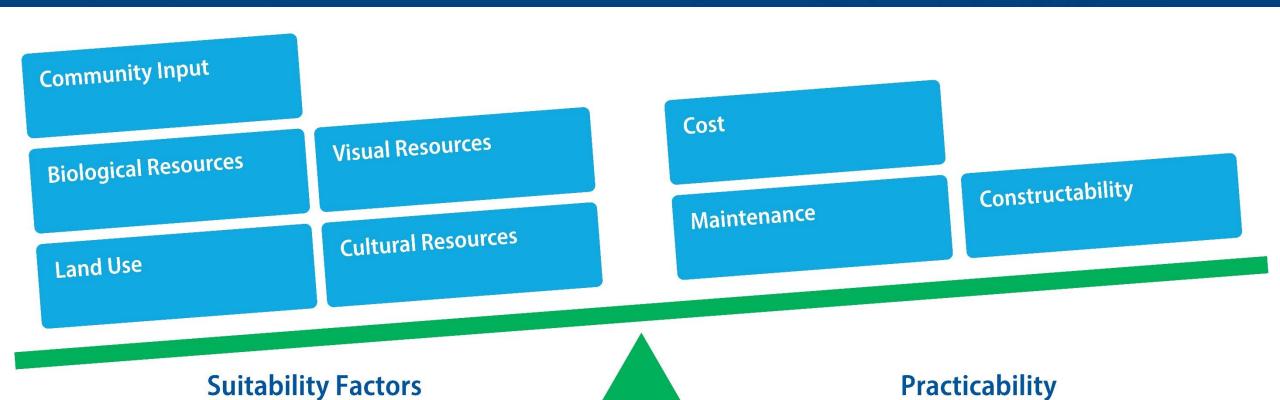








Project Route Development & Evaluation





Suitability Assessment Methodology

Criteria Models

- Existing Plans
- Biological Resources
- Noise and Communication
- Cultural and Historic Resources
- Visual Resources
- Total Environment
- Existing and Future Residential
- Wildfire Risk
- Engineer, Construction and Maintenance

Composite Models

- Balanced Compatability Model
- Environmentally Preferred Model
- Construction & Maintenance Preferred Model
- Public Stakeholder & Agency Preferred Model

Suitability Assessment

- Highest Suitability Path
- Apply Constraints
- Visual Comparison

Field Verification

• Ground Truthing

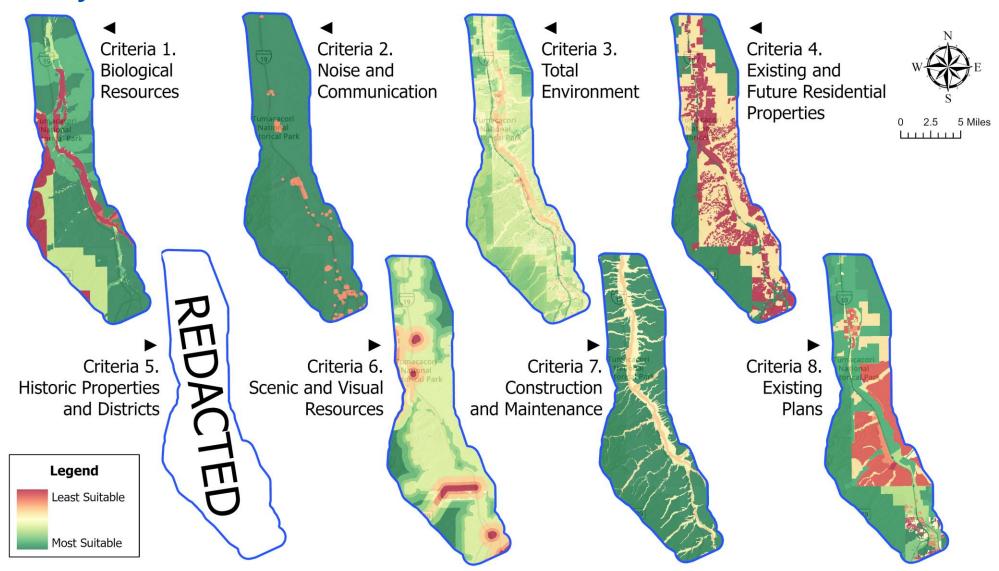
Refined Segments

- Eliminate Less Suitable Segments
- Carried Forward for Further Evaluation





Suitability Criteria



Composite Suitability Methodology

Criteria 1: Biological Resources

Criteria 2: Noise & Communications

Criteria 3: Total Environment

Criteria 4: Existing & Future Residential

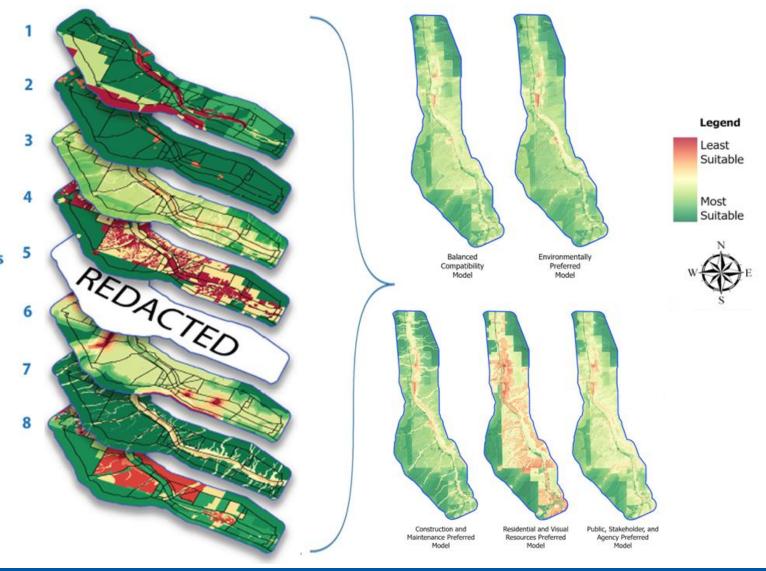
Properties Adjacent to Transmission Lines

Criteria 5: Historic Properties & Districts

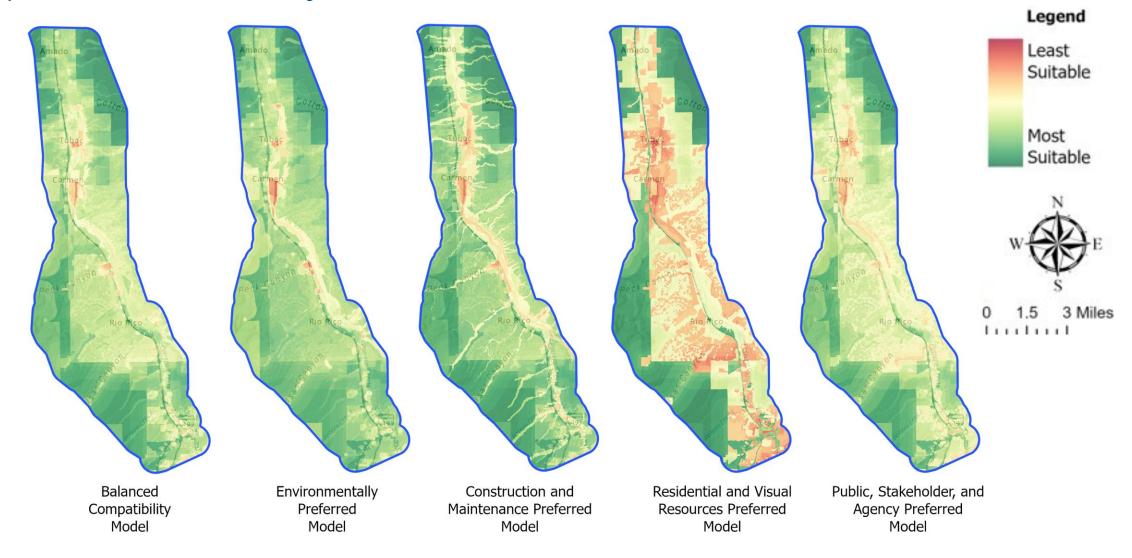
Criteria 6: Scenic & Visual Resources

Criteria 7: Construction & Maintenance

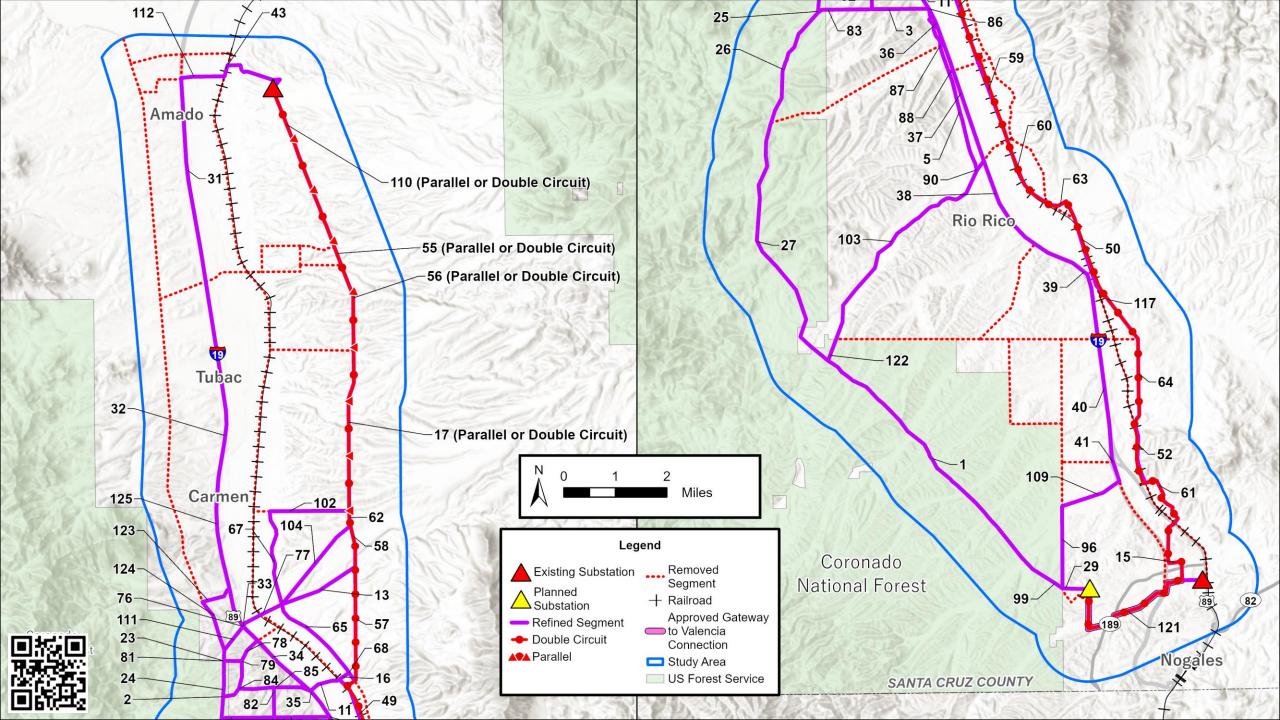
Criteria 8: Existing Plans



Composite Suitability Models







Project Schedule





Santa Cruz Reliability Project South (Phase 3) projected in service date 2030 (In service date subject to change)



Public Participation

- Fill out an online comment form at:
 - uesaz.com/santa-cruz-reliability-project-south
- Send comments via email to: <u>scrnorth@uesaz.com</u>
- Call (520) 917-6635 and leave a voicemail message
- Mail a letter with comments to:
 - ATTN: Santa Cruz Reliability South
 P.O. Box 711
 Mail Stop CB200
 Tucson, AZ 85701-0711



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