

# Santa Cruz Reliability Project North

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April 2024

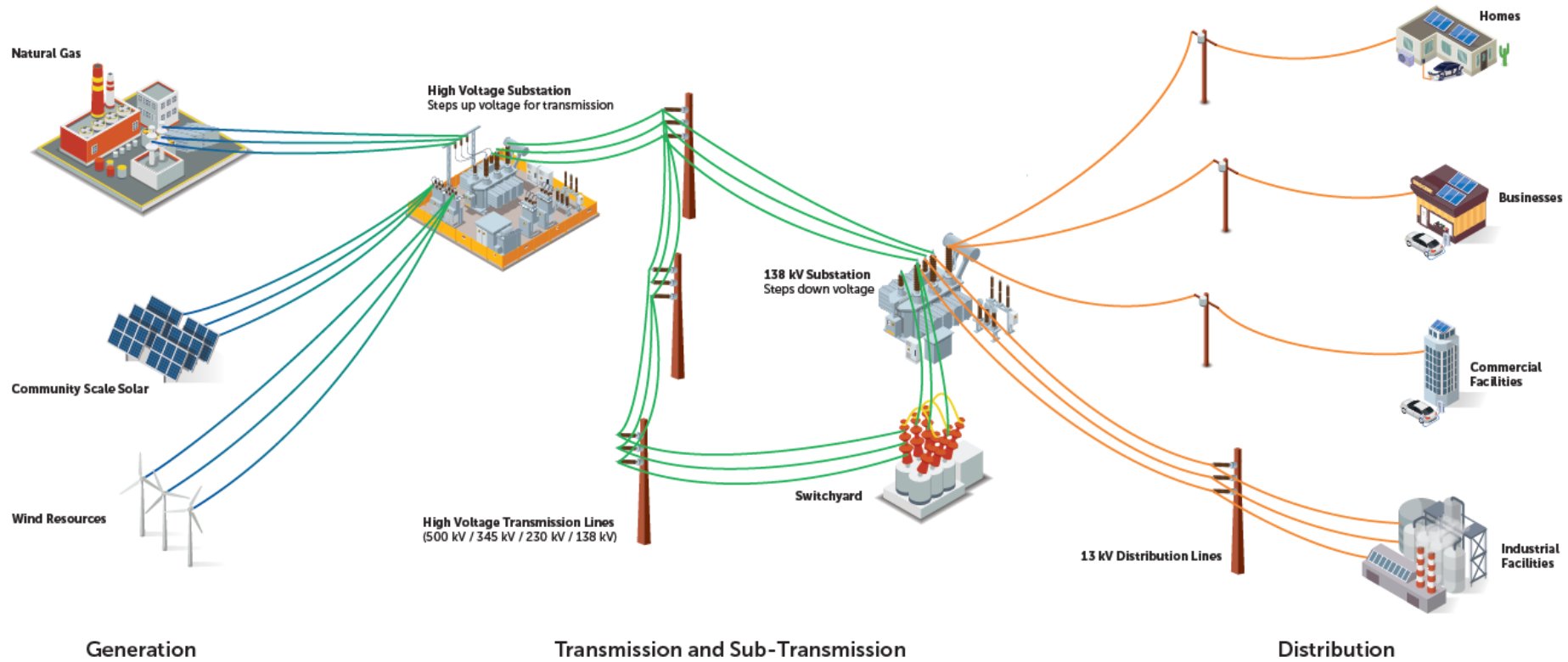
# Agenda

- Introductions
- How Power Gets to You
- Study Area
- Need and Benefits
- About the Project / Aesthetics
- Transmission Line Siting Process
- Evaluation Criteria
- Opportunities and Constraints
- Timeline
- Public Participation
- Questions

# Agencies

- Federal Agencies
- State Agencies
- Pima County
- Santa Cruz County
- Chambers of Commerce
- Telecommunication Companies
- Port Authority
- School Districts
- Union Pacific Railroad
- Utilities

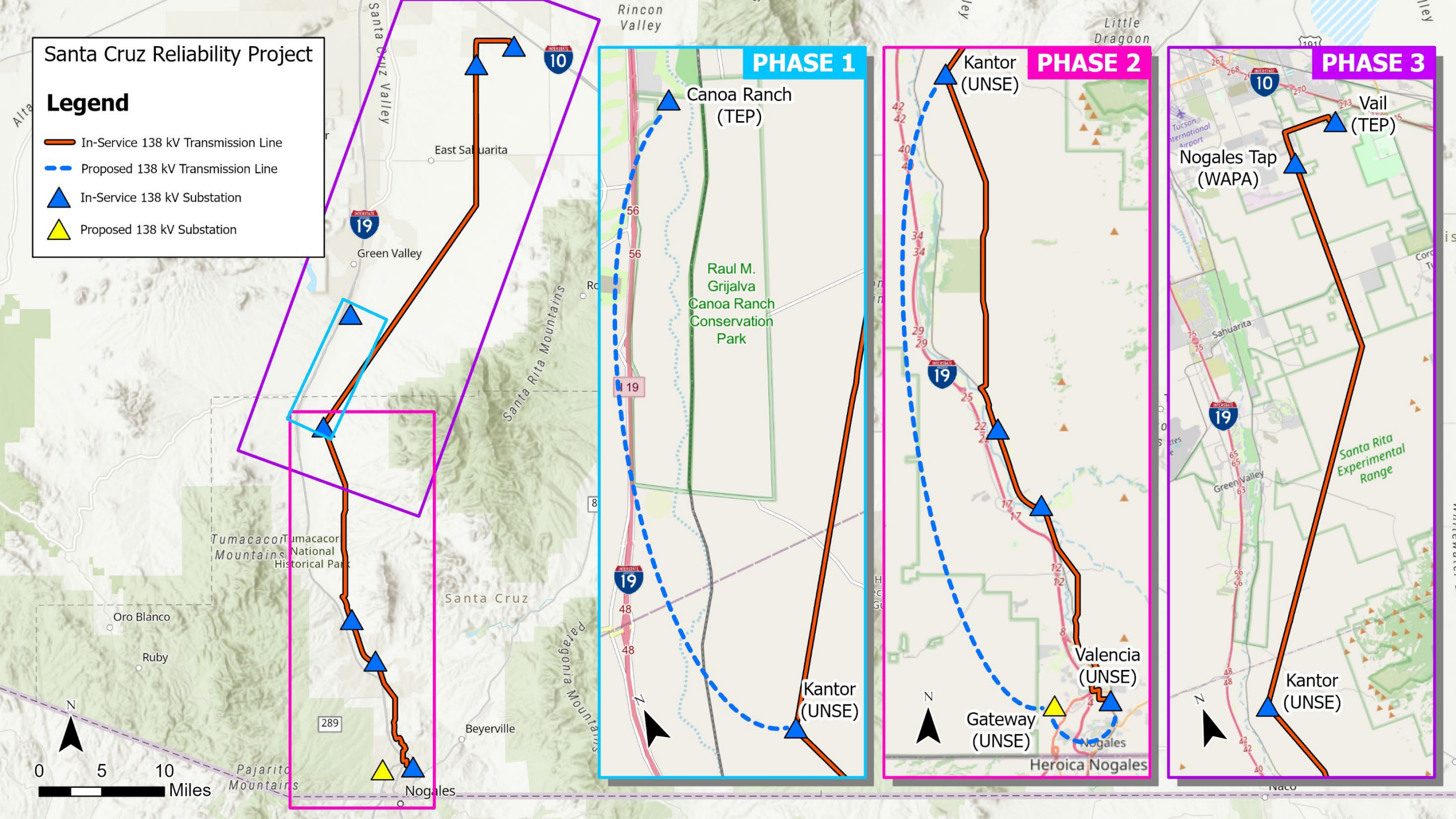
# How We Deliver Energy Service to You



# Santa Cruz Reliability Project

## Legend

-  In-Service 138 kV Transmission Line
-  Proposed 138 kV Transmission Line
-  In-Service 138 kV Substation
-  Proposed 138 kV Substation



### PHASE 1

### PHASE 2

### PHASE 3

Canoa Ranch (TEP)

Kantor (UNSE)

Vail (TEP)

Nogales Tap (WAPA)

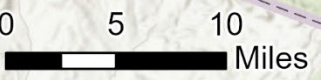
Raul M. Grijalva  
Canoa Ranch  
Conservation Park

Valencia (UNSE)

Kantor (UNSE)

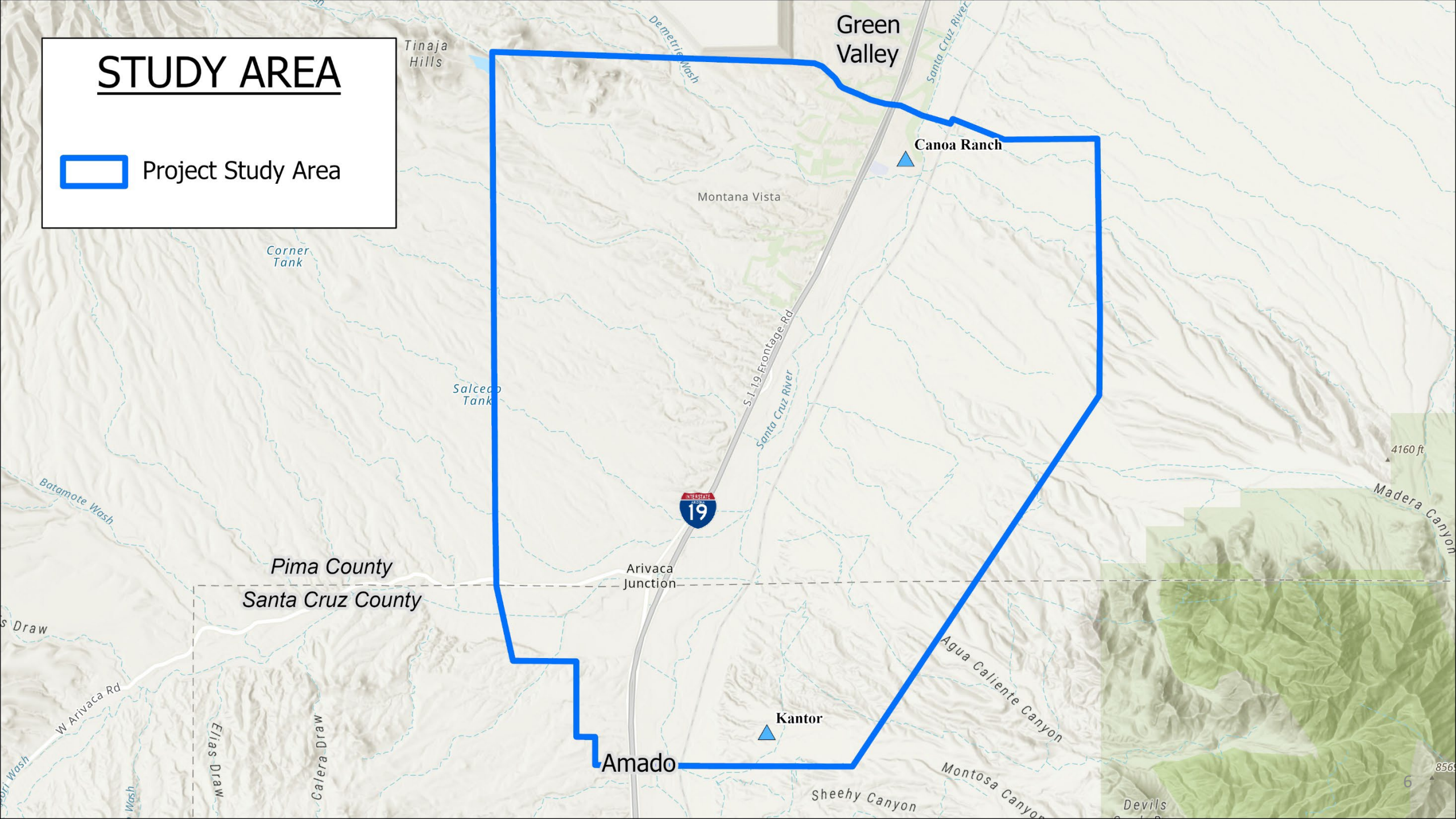
Gateway (UNSE)

Kantor (UNSE)



# STUDY AREA

 Project Study Area



# Need and Benefits

- Improve the reliability and resiliency of the electrical transmission system serving Santa Cruz County.
- Reduce the frequency and duration of outages affecting residents, businesses and industries, including hospitals, schools, ports of entry and federal facilities.
- Expand energy capacity in the area to meet current and future energy needs without impacting service to existing customers.

# About the Project

- Construct a second 138 kilovolt (kV) transmission line to connect the Canoa Ranch Substation, located in Pima County, and the Kantor substation, located in Santa Cruz County.
- Expand the Kantor Substation, extending the property boundary by about 20 acres to accommodate setback, security, and operations and maintenance requirements. The substation improvements would also support reliability for customers.



# Pole Structure



Tubular  
Weathering Steel  
Monopoles



# Kantor Substation



# KANTOR SUBSTATION EXPANSION

-  Project Study Area
-  Substation Expansion Area

Existing Kantor Substation



# Transmission Line Siting Process

- Under state law, UniSource must secure a Certificate of Environmental Compatibility (CEC) to build the transmission line.
- UniSource plans to file a CEC application in fall 2024 with the Arizona Power Plant and Transmission Line Siting Committee, which reviews CEC applications in a public process that allows neighbors and other stakeholders to provide comments.
- The Arizona Corporation Commission (ACC) must review and approve the CEC before UniSource can begin construction.

# 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
- Refine Segments

## Phase 4: Compatibility Analysis

- Conduct Compatibility Analysis
- Develop Route Alternatives
- Conduct Public and Stakeholder Outreach
- Identify Preferred Route

## Phase 5: Concept Evaluation

- Field Review
- Submit CEC Application
- Public Notification and Hearing

# Evaluation Criteria

Please share what values matter most to you.



Wildlife & plant life



Scenic areas, historic sites & archaeological sites and structures



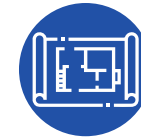
Environment



Noise emission levels & interference with communication signals



Potential public recreational uses



Existing development plans



Engineering feasibility and challenges



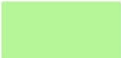


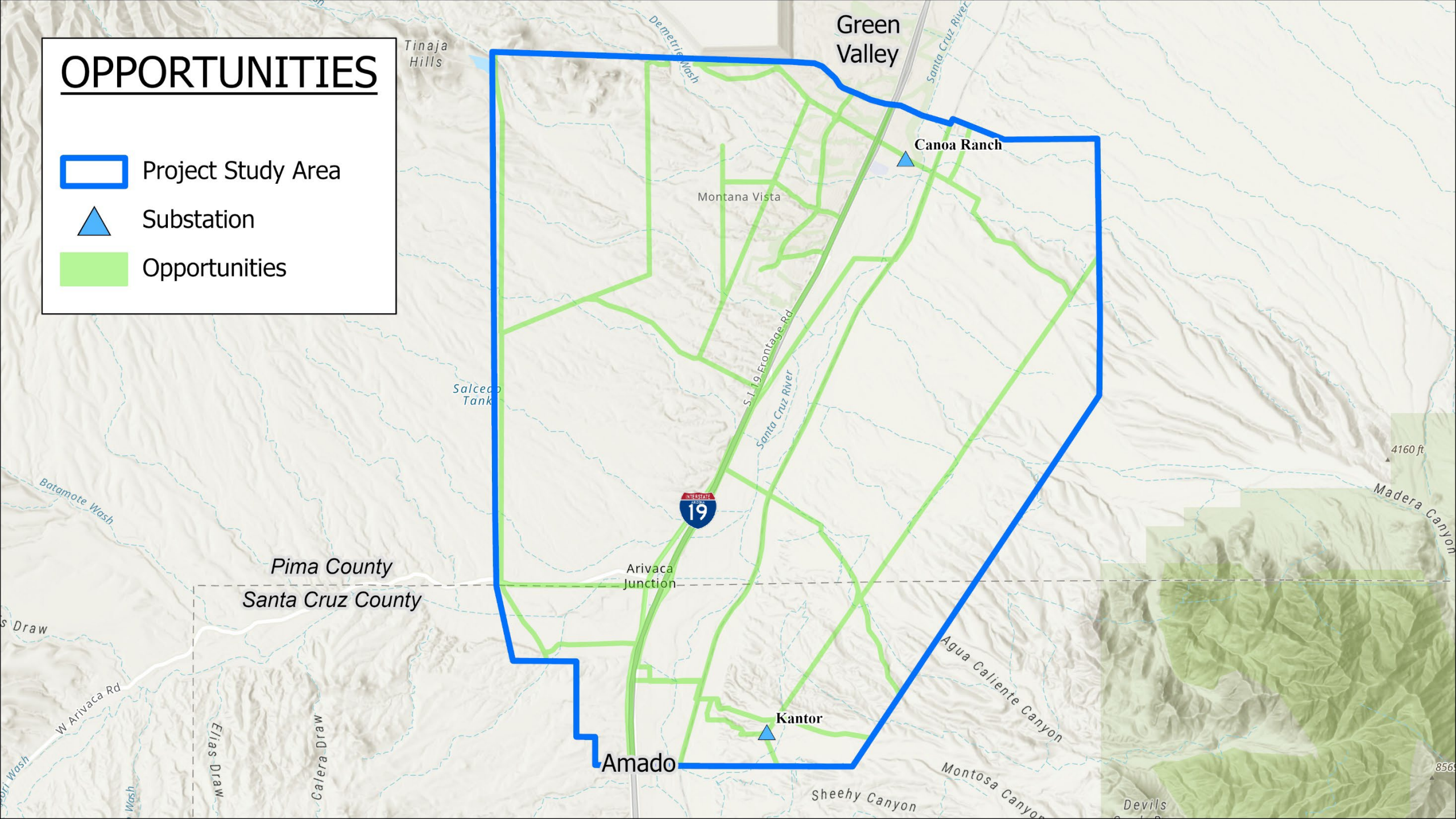
Project costs & potential impacts on customer rates






Public input

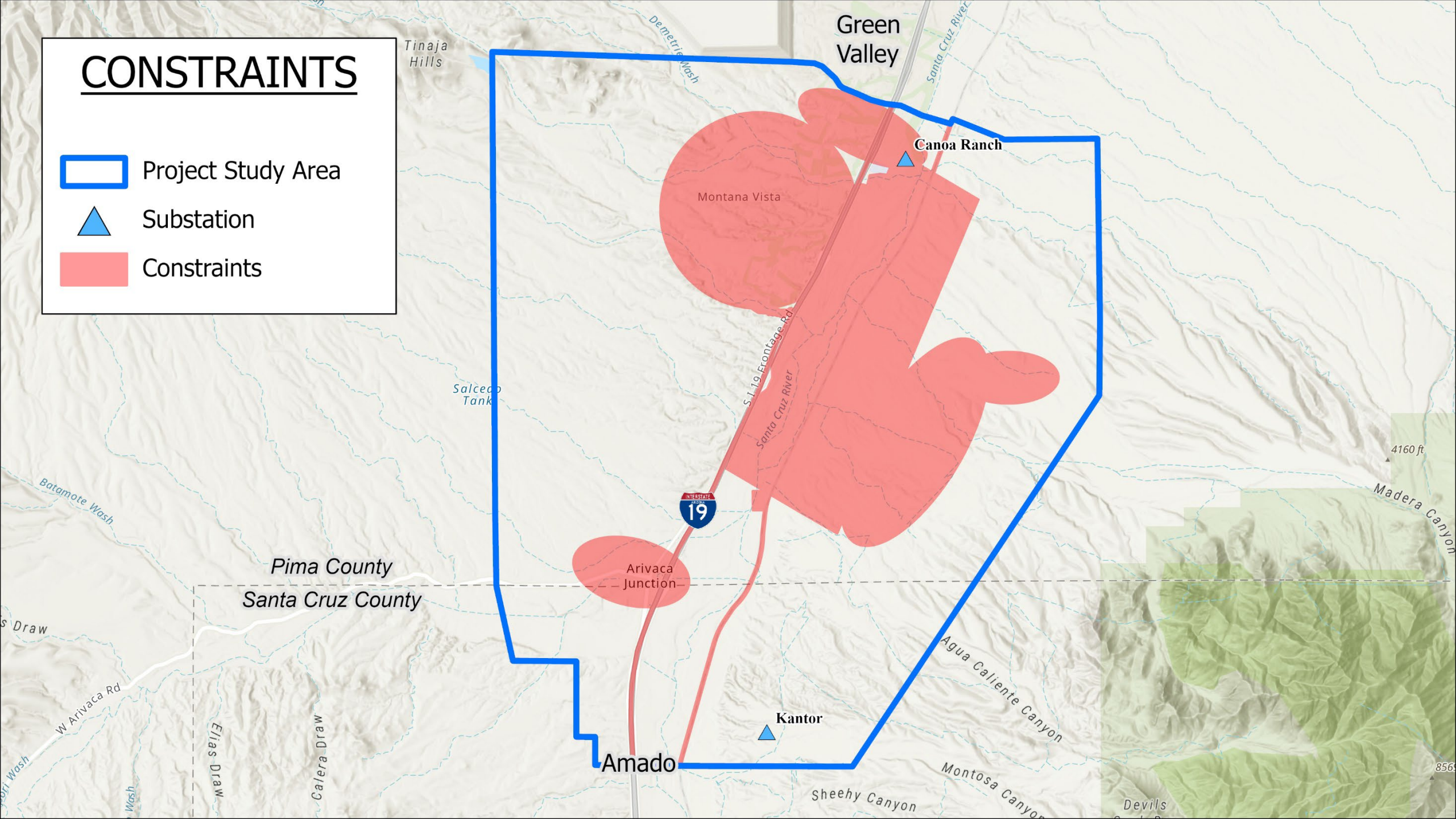
# OPPORTUNITIES

-  Project Study Area
-  Substation
-  Opportunities



# CONSTRAINTS

-  Project Study Area
-  Substation
-  Constraints





# Timeline

- Public Open House # 1 – April 2024
- Public Open House # 2 – June 2024
- CEC Application Submittal – fall 2024
- Transmission Line Siting Committee Hearing – fall 2024
- ACC Open Meeting – early 2025
- Phase 1: Project in Service – 2028
- Phase 2: Project in Service – 2029
- Phase 3: Project in Service – 2030

# Public Participation

- Fill out an online comment form
- Send comments to [santacruzreliability@uesaz.com](mailto:santacruzreliability@uesaz.com)
- Call 1-833-310-1669 and leave a voicemail message
- Mail a letter with comments to:  
ATTN: Santa Cruz Reliability  
P.O. Box 711  
Mail Stop CB200  
Tucson, AZ 85701-0711

## Public Open House

Thursday, April 25, 2024

6-8 p.m.

Sopori Elementary School

5000 W. Arivaca Rd.

Amado, AZ 85645

# Questions?

