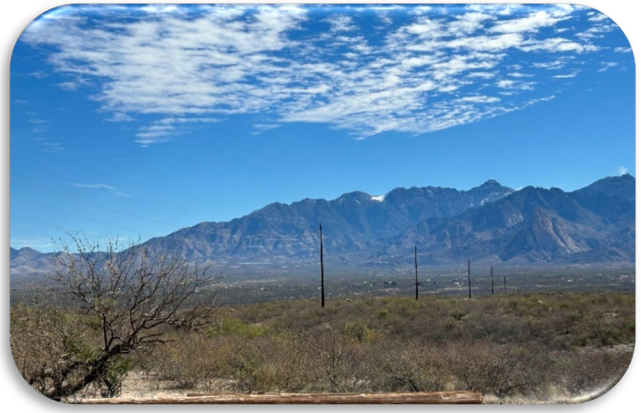
Santa Cruz Reliability Project North

ADRIANA MARIÑEZ, LINE SITING PROJECT MANAGER



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April 2024

Agenda

- 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

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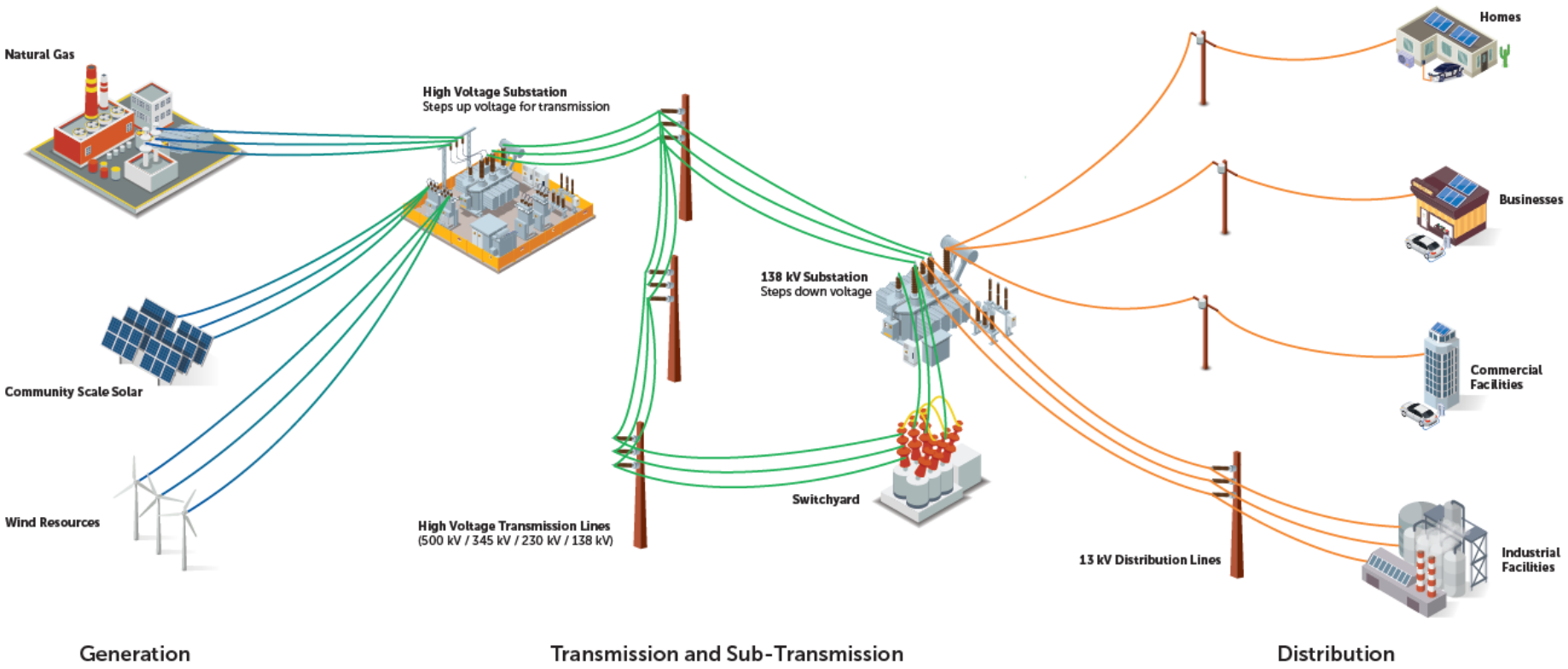
How We Deliver Energy Service to You



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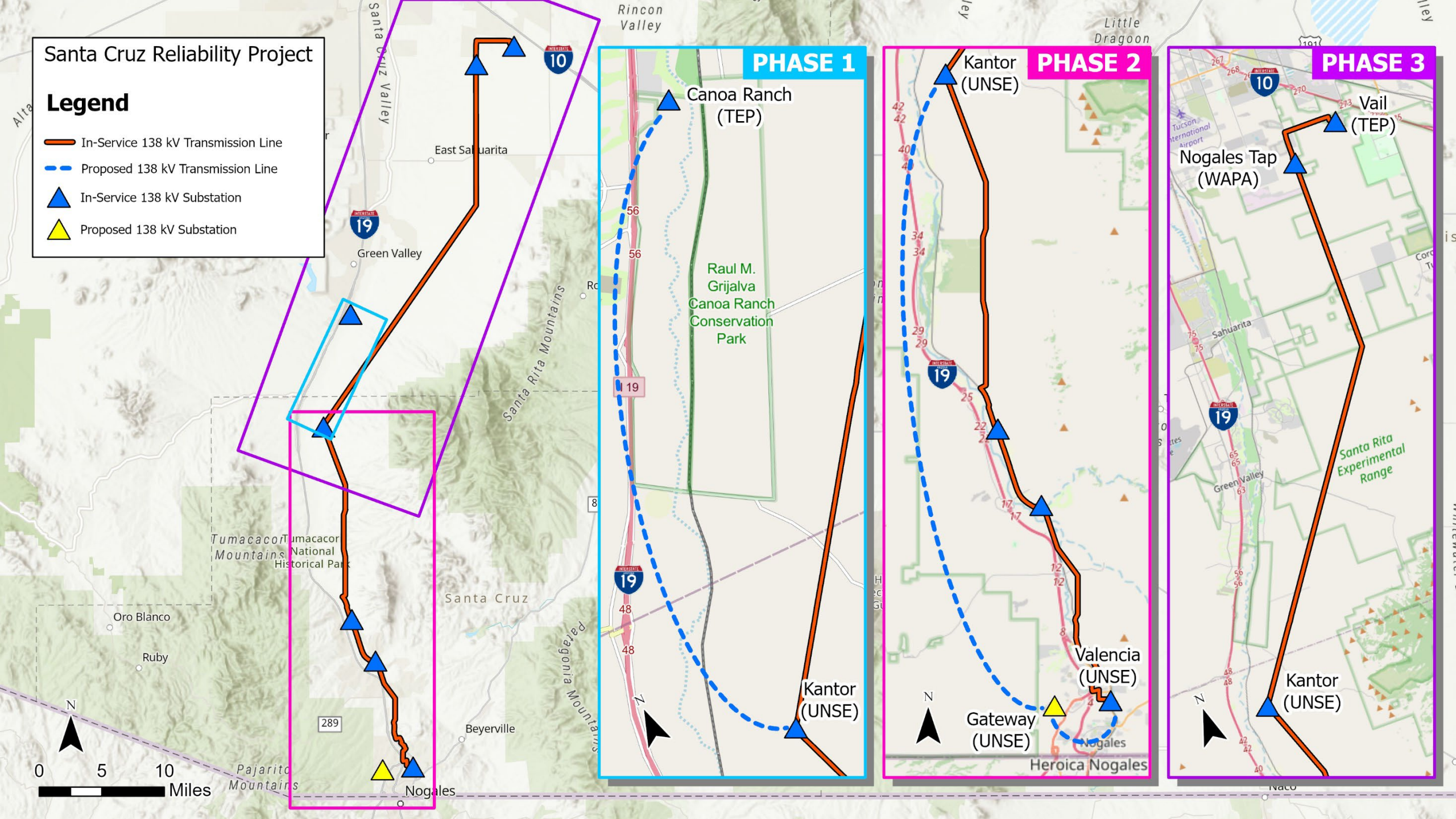
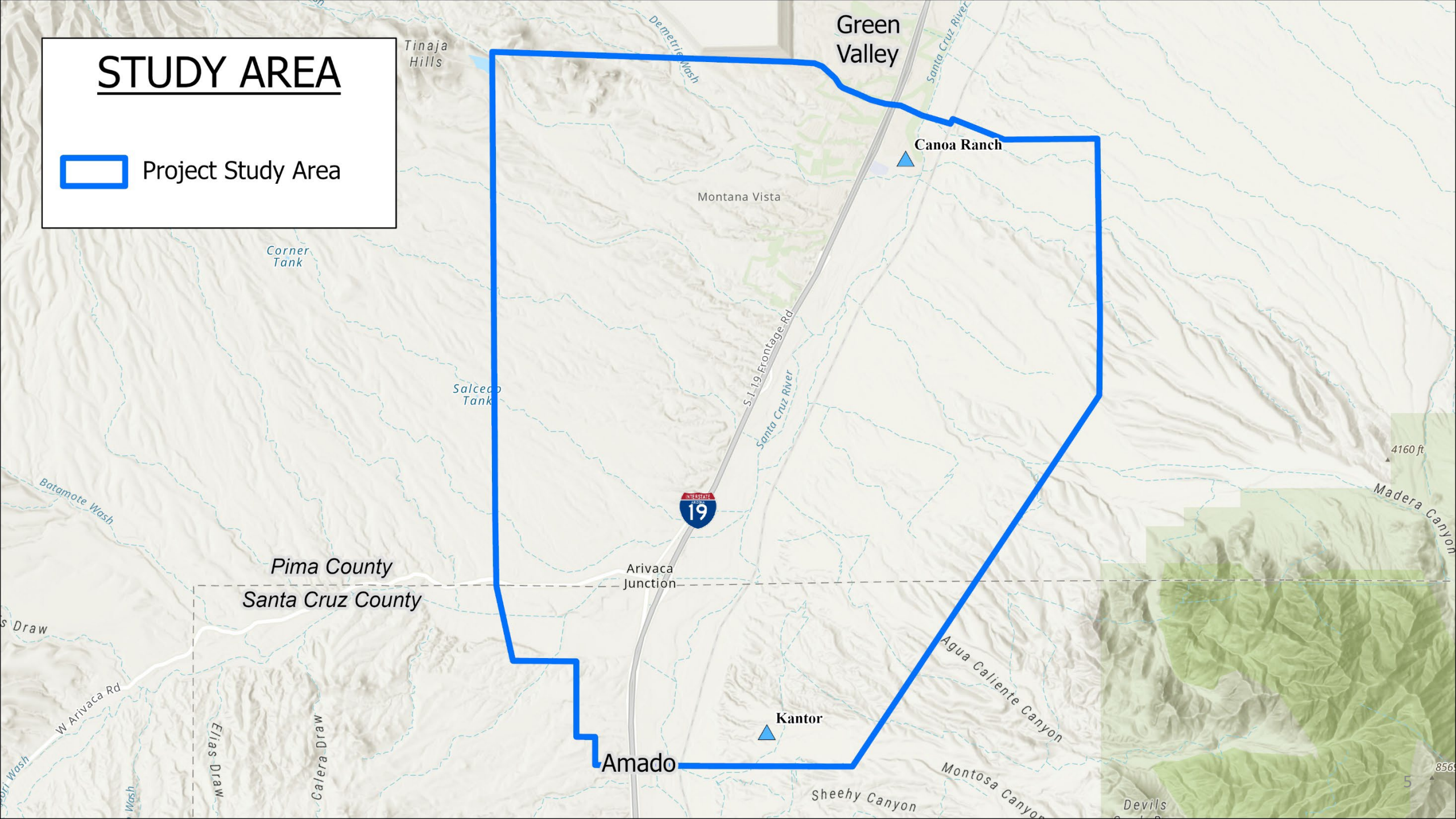

Santa Cruz Reliability Project
Legend
In-Service 138 kV Transmission Line
Proposed 138 kV Transmission Line
In-Service 138 kV Substation
Proposed 138 kV Substation
PHASE 1
Canoa Ranch (TEP)
Kantor (UNSE)
Raul M. Grijalva Canoa Ranch Conservation Park
PHASE 2
Kantor (UNSE)
Valencia (UNSE)
Gateway (UNSE)
Heroica Nogales
PHASE 3
Vail (TEP)
Nogales Tap (WAPA)
Kantor (UNSE)
Santa Rita Experimental Range
Rincon Valley
Little Dragoon
Santa Cruz Valley
East Sahuarita
Green Valley
Santa Rita Mountains
Tumacacori Mountains
Tumacacori National Historical Park
Santa Cruz
Oro Blanco
Ruby
Beyerville
Pajarito Mountains
Nogales
Sahuarita
0 5 10 Miles


STUDY AREA
Project Study Area
Green Valley
Canoa Ranch
Montana Vista
Tinaja Hills
Corner Tank
Salceda Tank
Santa Cruz River
S 1-19 Frontage Rd
Interstate 19
Arivaca Junction
Pima County
Santa Cruz County
Amado
Kantor
W Arivaca Rd
Batamote Wash
Elias Draw
Calera Draw
Agua Caliente Canyon
Sheehy Canyon
Montosa Canyon
Madera Canyon
4160 ft
Devils

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.

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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.

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Pole Structure

Tubular
Weathering Steel
Monopoles

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Kantor Substation

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KANTOR SUBSTATION EXPANSION

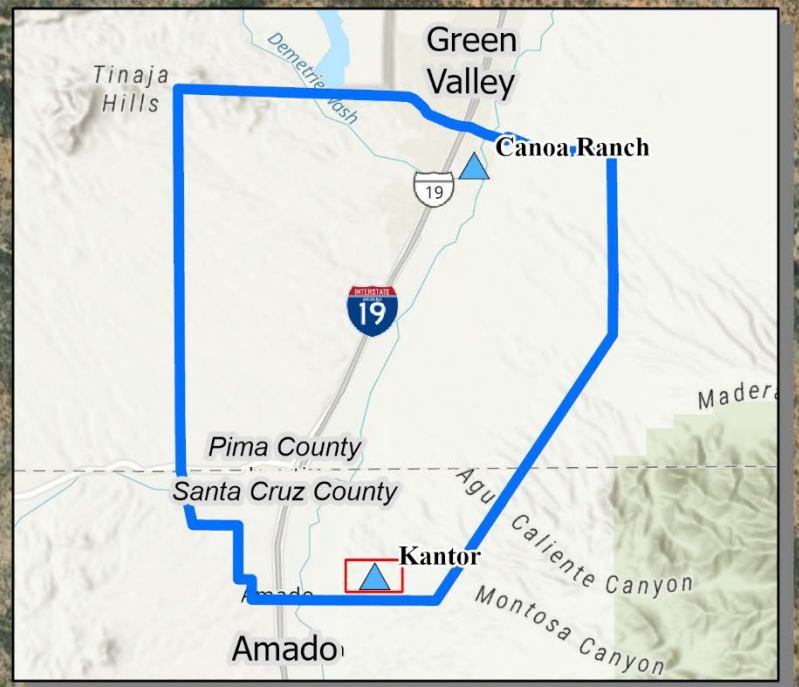
Project Study Area

Substation Expansion Area

FS Road 184

FS Road 184

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.

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Siting Process Flowchart

Phase 1: Pre-Analysis

- Conduct Filed 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

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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

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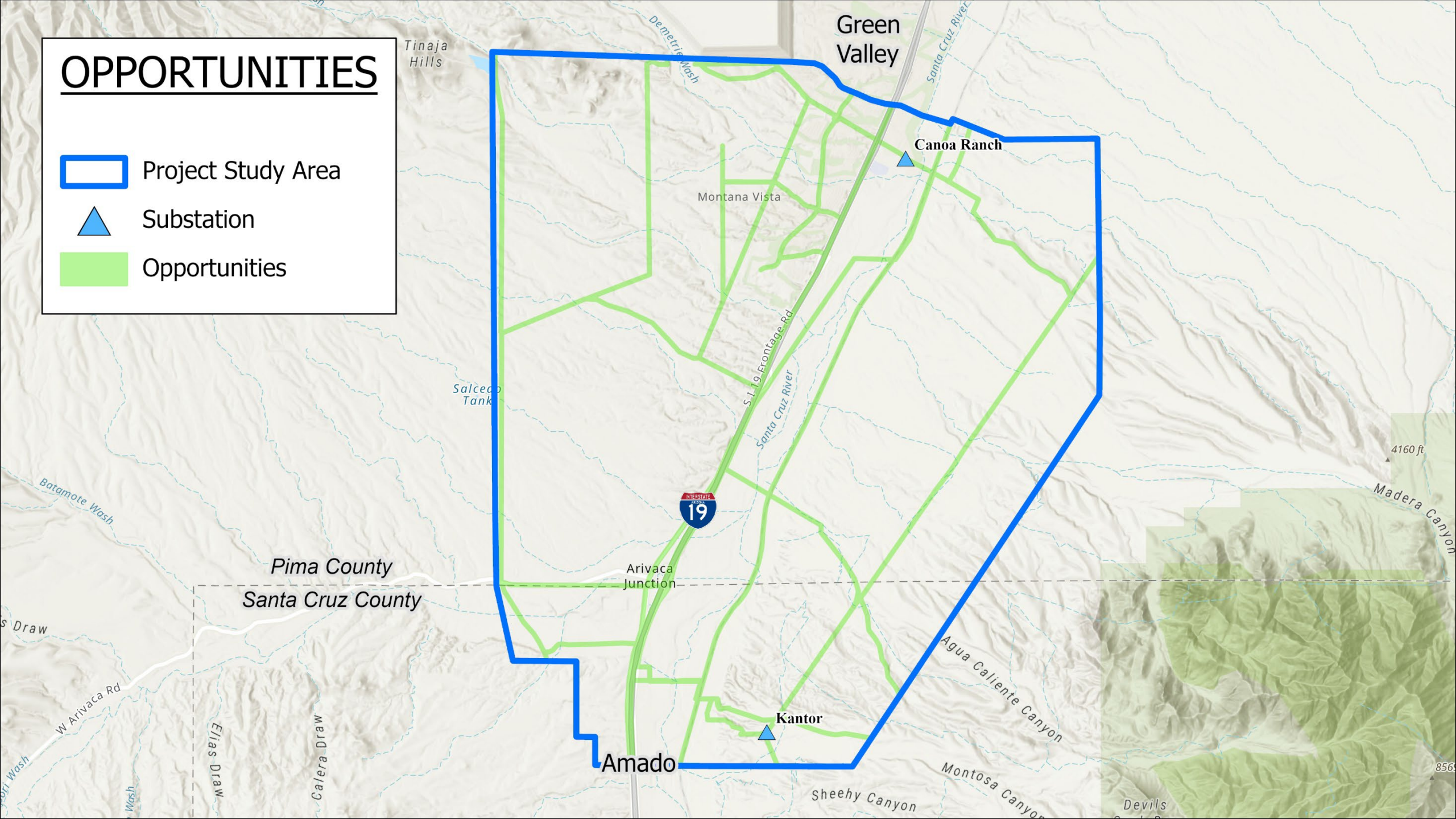
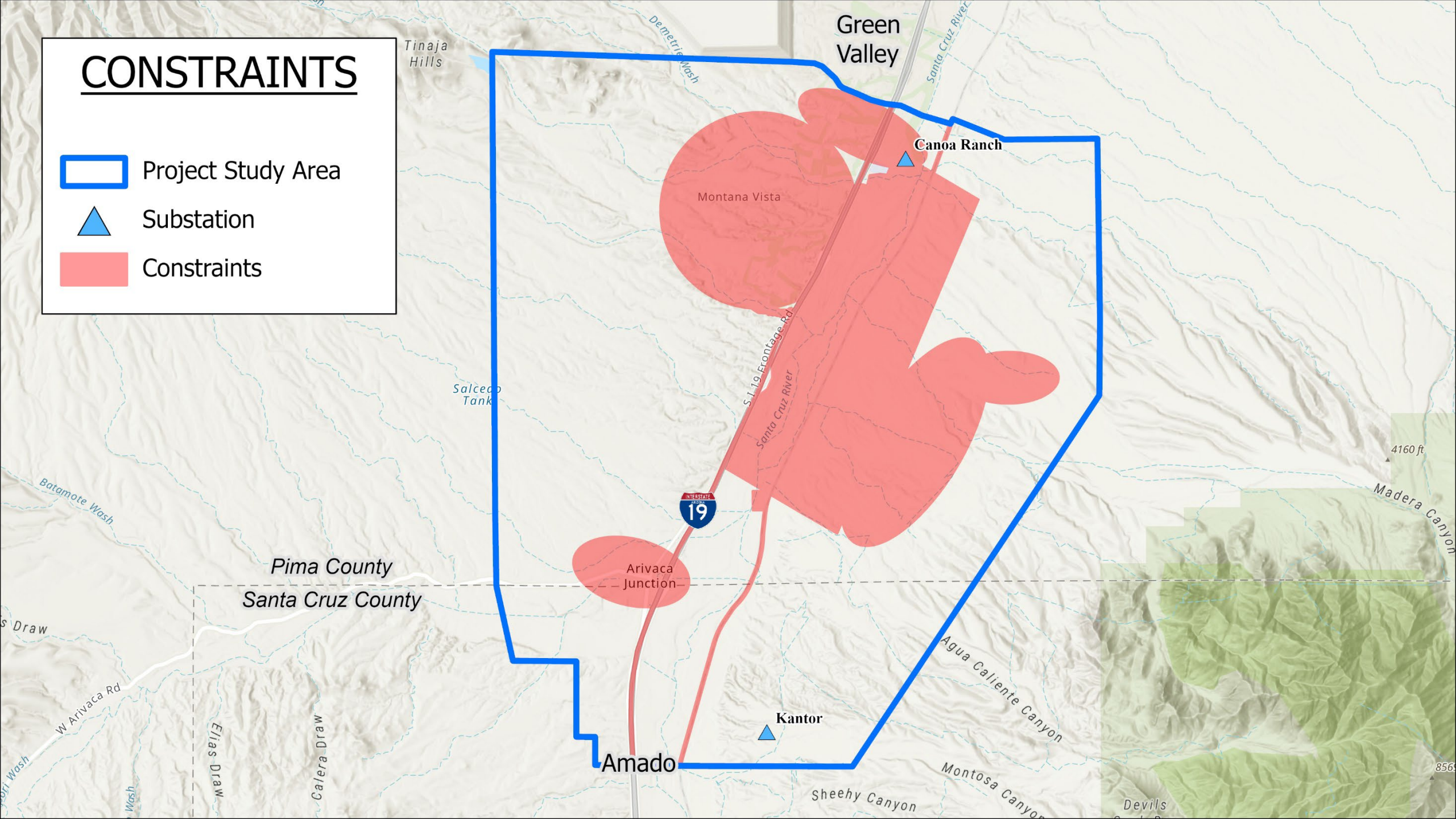

OPPORTUNITIES
Project Study Area
Substation
Opportunities
Green Valley
Canoa Ranch
Montana Vista
Tinaja Hills
Demetrie Wash
Santa Cruz River
S I-19 Frontage Rd
Salcedo Tank
Batamote Wash
Pima County
Santa Cruz County
Arivaca Junction
Kantor
Amado
W Arivaca Rd
Elias Draw
Calera Draw
Agua Caliente Canyon
Sheehy Canyon
Montosa Canyon
Madera Canyon
4160 ft
Devils


CONSTRAINTS
Project Study Area
Substation
Constraints
Green Valley
Tinaja Hills
Demetrie Wash
Santa Cruz River
Canoa Ranch
Montana Vista
S 1-19 Frontage Rd
Santa Cruz River
Salcedo Tank
INTERSTATE
19
Arivaca Junction
Batamote Wash
Pima County
Santa Cruz County
Kantor
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Agua Caliente Canyon
Madera Canyon
4160 ft
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Elias Draw
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Montosa Canyon
Devils

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

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Public Participation

- Fill out an online comment form
- Send comments to 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

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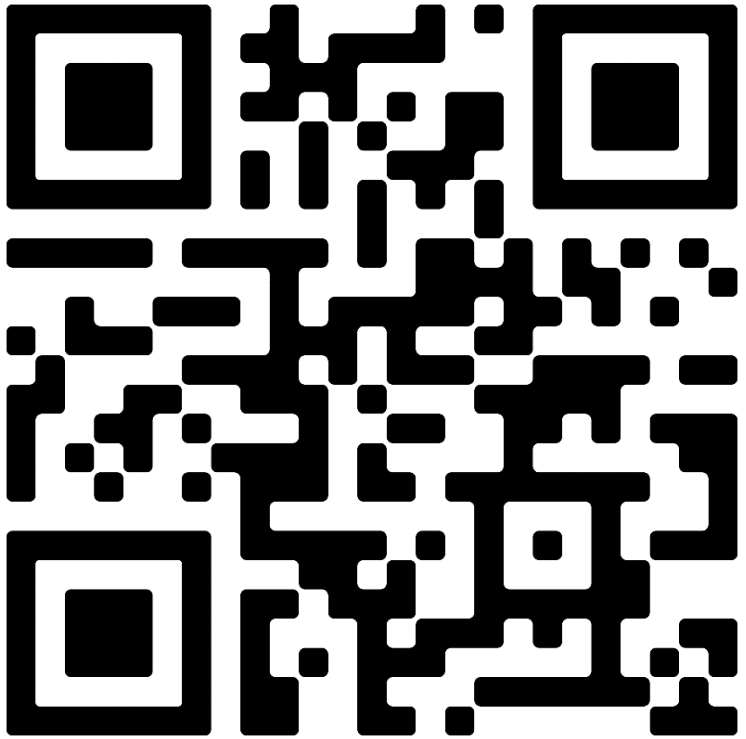
Questions?



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