

# Santa Cruz Reliability Project North

## AGENCY BRIEFING

CLARK BRYNER – MANAGER, SITING, OUTREACH AND ENGAGEMENT



March 2025

# Agencies

Please type into the chat:

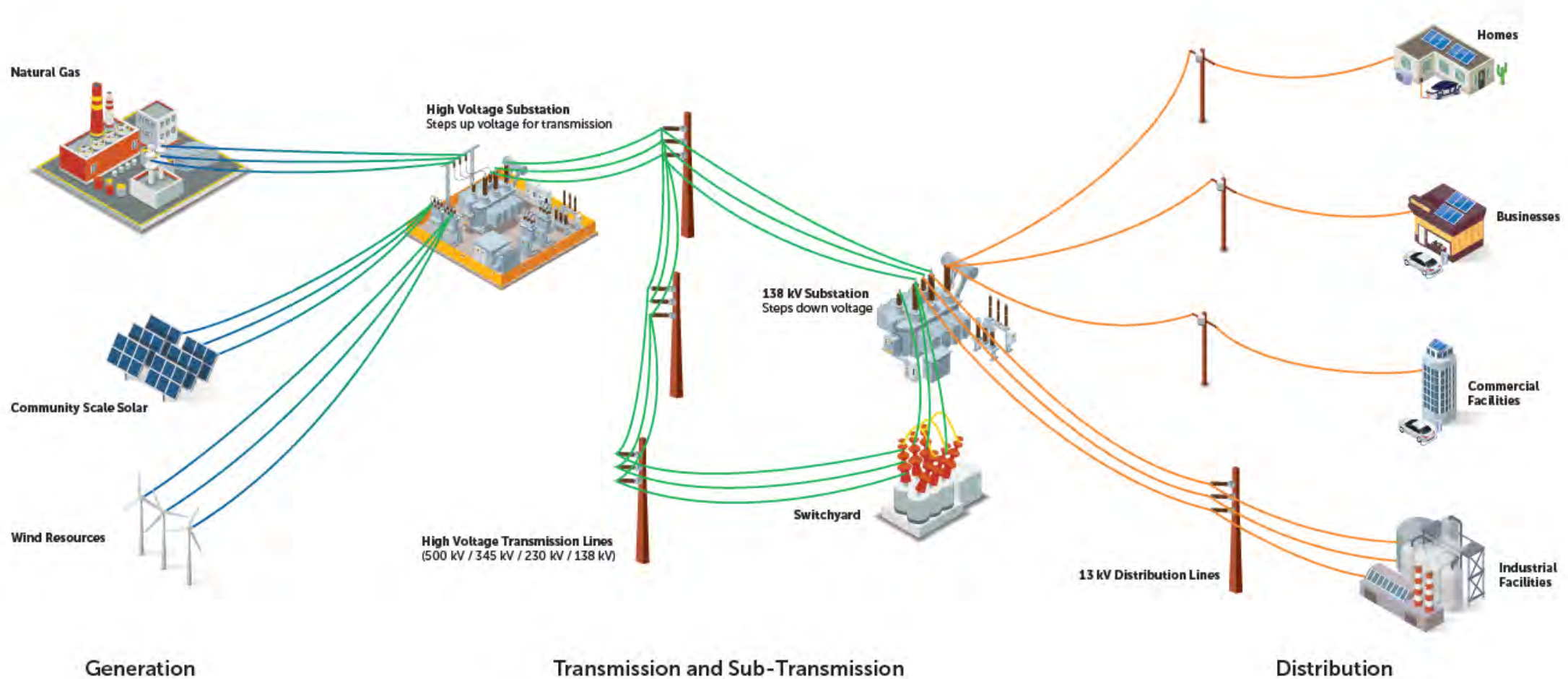
- Name
- Organization
- Title/Role

- Federal Agencies
- State Agencies
- Pima County
- Santa Cruz County
- Town of Sahuarita
- Green Valley Coordinating Council
- Chambers of Commerce
- Telecommunication Companies
- Greater Nogales Santa Cruz County Port Authority
- School Districts
- Union Pacific Railroad
- Utilities
- Large private landowners

# Agenda

- How Power Gets to You
- Santa Cruz Reliability Project – Three Phases
- Need and Benefits
- Phase 1 – Santa Cruz Reliability Project North
- Revised Study Area
- Kantor Substation
- Proposed Transmission Line
- What is Siting?
- Planning and Siting Process
- Project Schedule
- Public Participation
- Q&A Session

# How We Deliver Energy Service to You



# Legend

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

0 5 10 Miles



### Phase 1 - SCR North

**THIS PROJECT**

Regional Grid (TEP)

UNDETERMINED ROUTE

Kantor (UNSE)

2024-2025: Planning and Siting  
2027-2028: Construction

### Phase 2 - Nogales Tap-Kantor

Nogales Tap (WAPA)

Vail (TEP)

Kantor (UNSE)

CEC Issued in 2017 under Decision 76468  
2028-2029: Construction

### Phase 3 - SCR South

Kantor (UNSE)

UNDETERMINED ROUTE

Valencia (UNSE)

Gateway (UNSE)

2025-2026: Planning and Siting  
2029-2030: Construction

# Need and Benefits

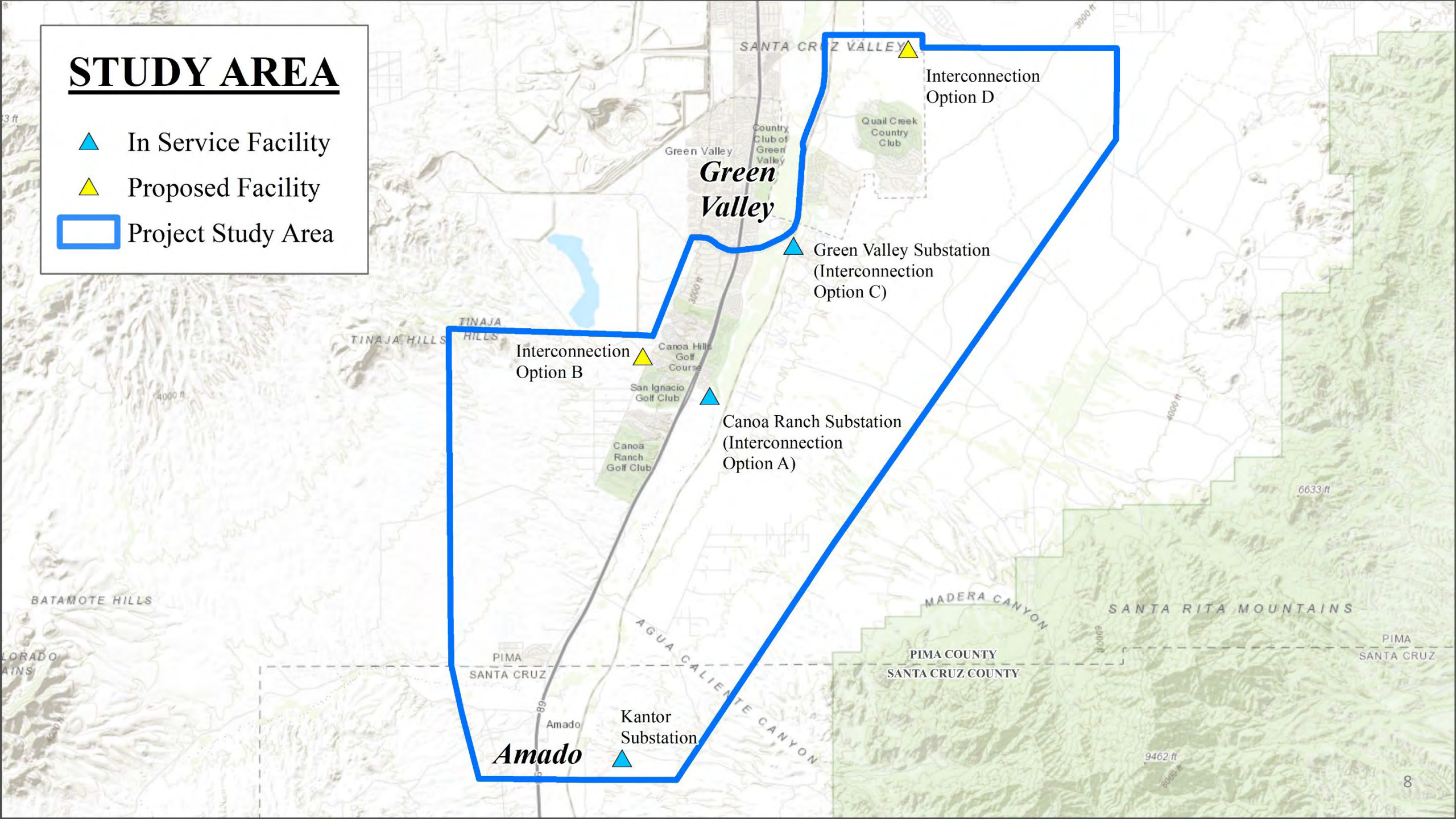
- Improve the reliability and resiliency of the electrical transmission system serving Santa Cruz County.
- Maintain and strengthen reliability for Santa Cruz County and its residents, businesses and industries, including hospitals, schools, ports of entry and federal facilities.
- Meet current and future 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 North (Phase 1)

- First phase of a three phase project.
- Construct a second 138 kilovolt (kV) transmission line to connect UniSource's Kantor Substation, in Santa Cruz County, to the regional electric grid in Pima County.
- Upgrade and expand the Kantor Substation to accommodate operations and maintenance requirements.

# STUDY AREA

- ▲ In Service Facility
- ▲ Proposed Facility
- ▭ Project Study Area







# Kantor Substation

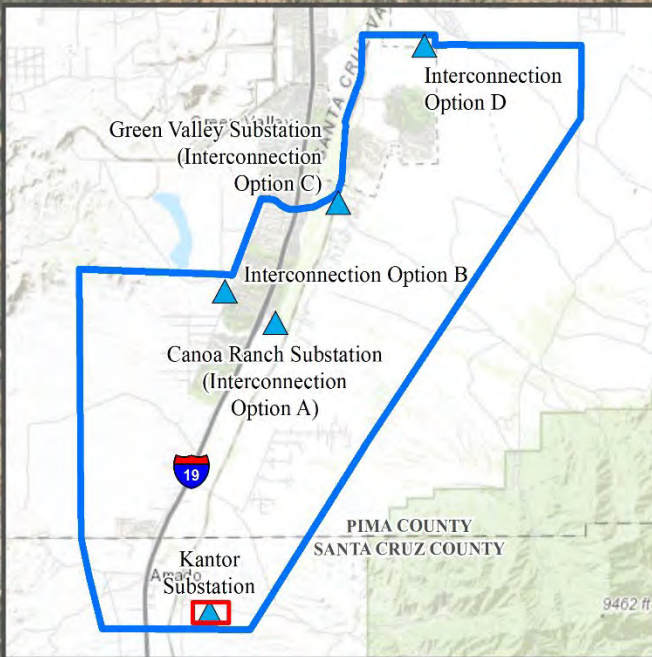


# KANTOR SUBSTATION EXPANSION

-  Project Study Area
-  Substation Expansion Area

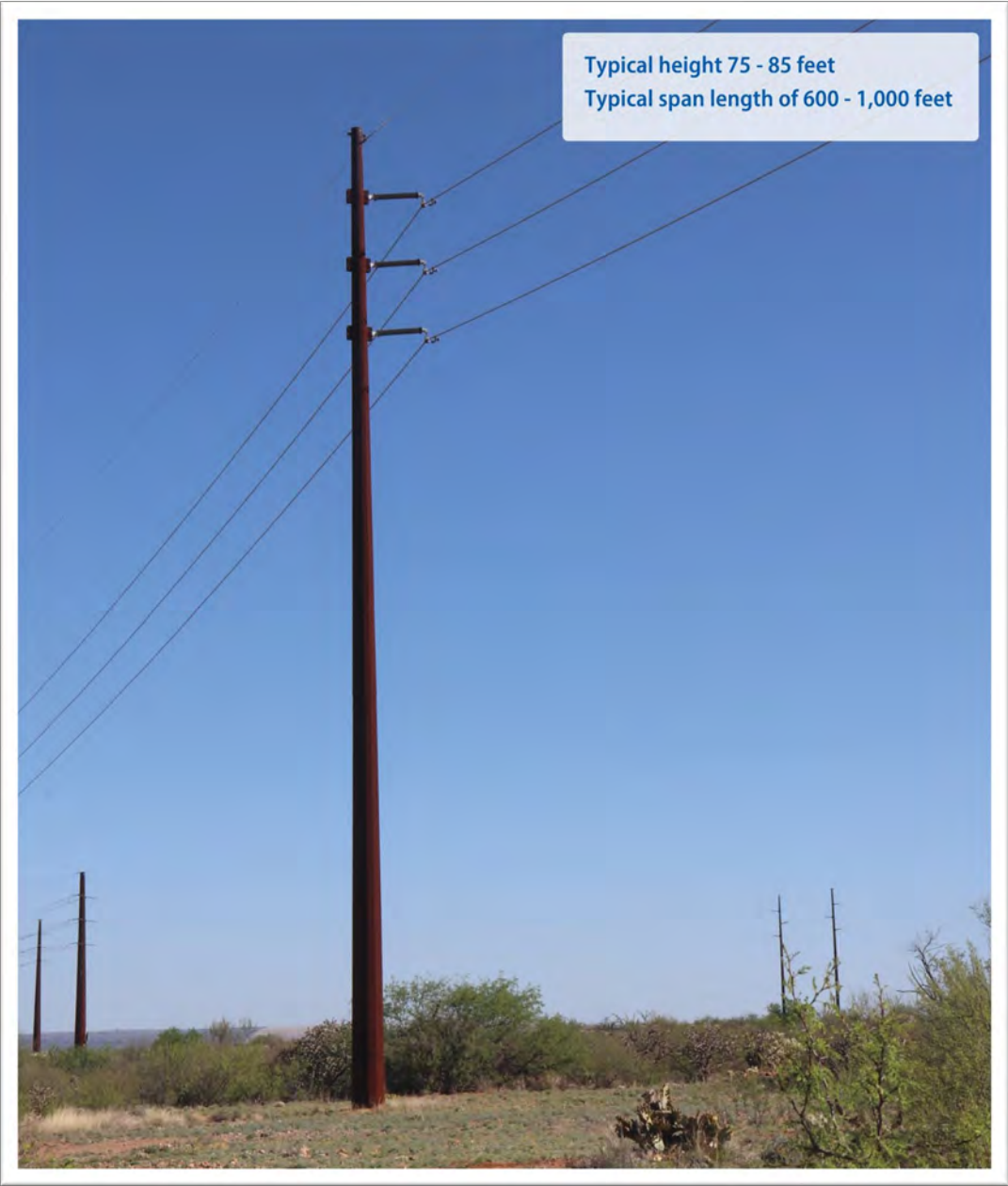
FS Road 184

Existing Kantor Substation

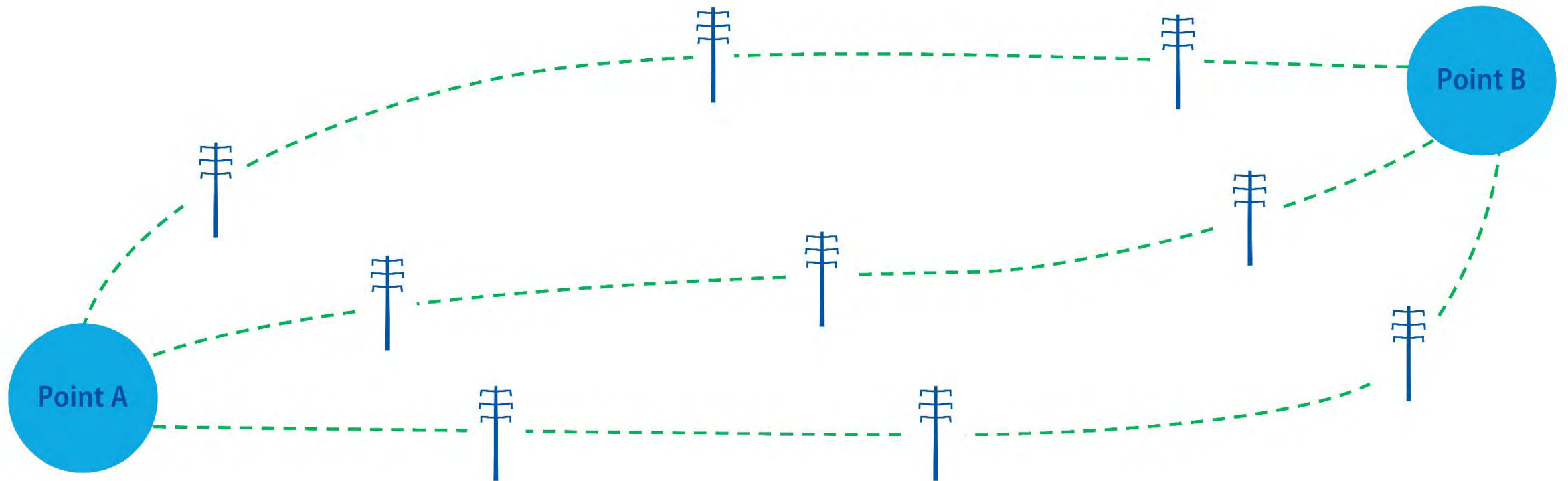


# Example Pole Structure

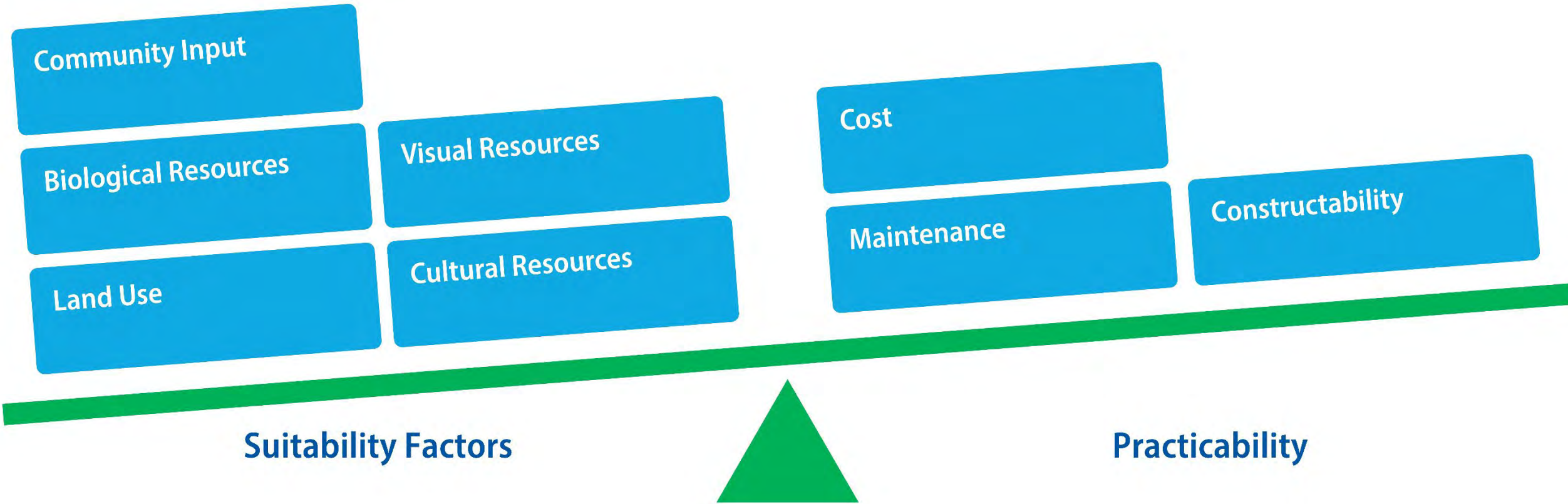
Tubular,  
Weathering Steel  
Monopoles



# What is Siting?



# Project Route Development and Evaluation



# Planning and 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



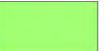

## Phase 4: **Compatibility Analysis**

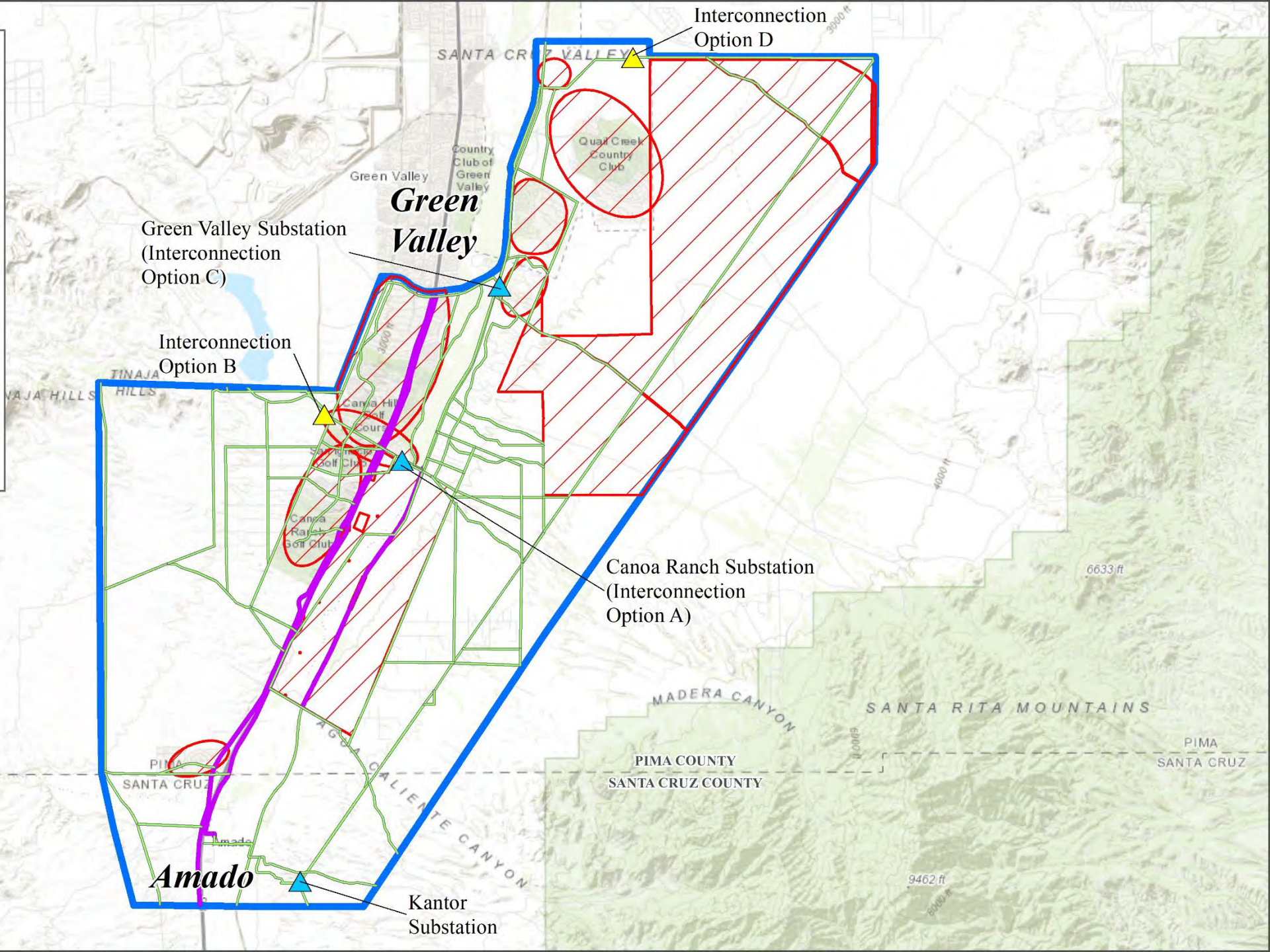
- Conduct Compatibility Analysis
- Develop Route Alternatives
- Conduct Public and Stakeholder Outreach
- Identify Preferred Route

## Phase 5: **Concept Evaluation**

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

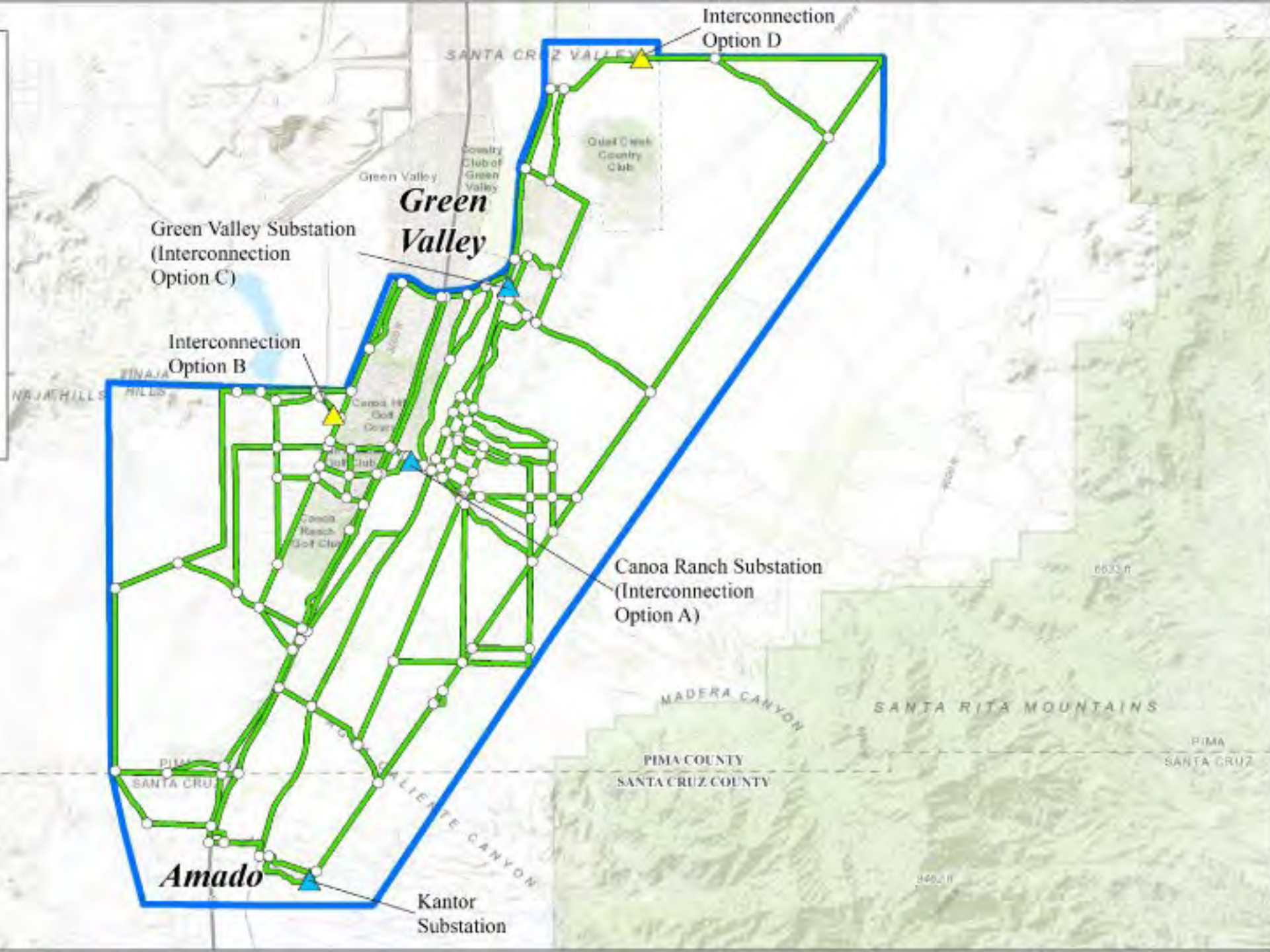
# Opportunities & Constraints

-  In Service Facility
-  Proposed Facility
-  Opportunity
-  Constraint
-  Both
-  Project Study Area



# Draft Preliminary Segments

- ▲ In Service Facility
- ▲ Proposed Facility
- Segment End Point
- Preliminary Segment
- ▭ Project Study Area





# Project Schedule\*

Under Arizona law, certain transmission line configurations require a Certificate of Environmental Compatibility (CEC) before construction and operation along an approved route.

- Q3 '23-Q2 '24 – Transmission Line Planning and Siting
- Fall 2025 – CEC Application Submittal
- Fall 2025 – Arizona Power Plant and Transmission Line Siting Committee Hearing
- Q1 2026 – Arizona Corporation Commission (ACC) Open Meeting
- 2028 – Phase 1: Project in Service
- 2029 – Phase 2: Project in Service
- 2030 – Phase 3: Project in Service

# Public Participation

- Fill out an online comment form at: [ueasz.com/santa-cruz-reliability-north](http://ueasz.com/santa-cruz-reliability-north)
- Send comments to: [scrnorth@uesaz.com](mailto:scrnorth@uesaz.com)
- Call (520) 917-6635 and leave a voicemail message
- Mail a letter with comments to:  
ATTN: Santa Cruz Reliability North  
P.O. Box 711  
Mail Stop CB200  
Tucson, AZ 85701-0711

## Public Open House Opportunities

Thursday, March 20, 2025. 9-11 a.m.

*Hosted by the Green Valley Coordinating Council*

Green Valley Recreation East Center

7 S Abrego Drive

Green Valley, AZ 85614

Thursday, March 20, 2025. 5-7 p.m.

Sopori Elementary School

5000 W. Arivaca Rd.

Amado, AZ 85645

# Q&A Session



Please use the raise hand feature in MS Teams

or

Type your question into the chat