

Aerospace Research Campus Transmission Project

ADRIANA MARIÑEZ, TRANSMISSION LINE SITING PROJECT MANAGER

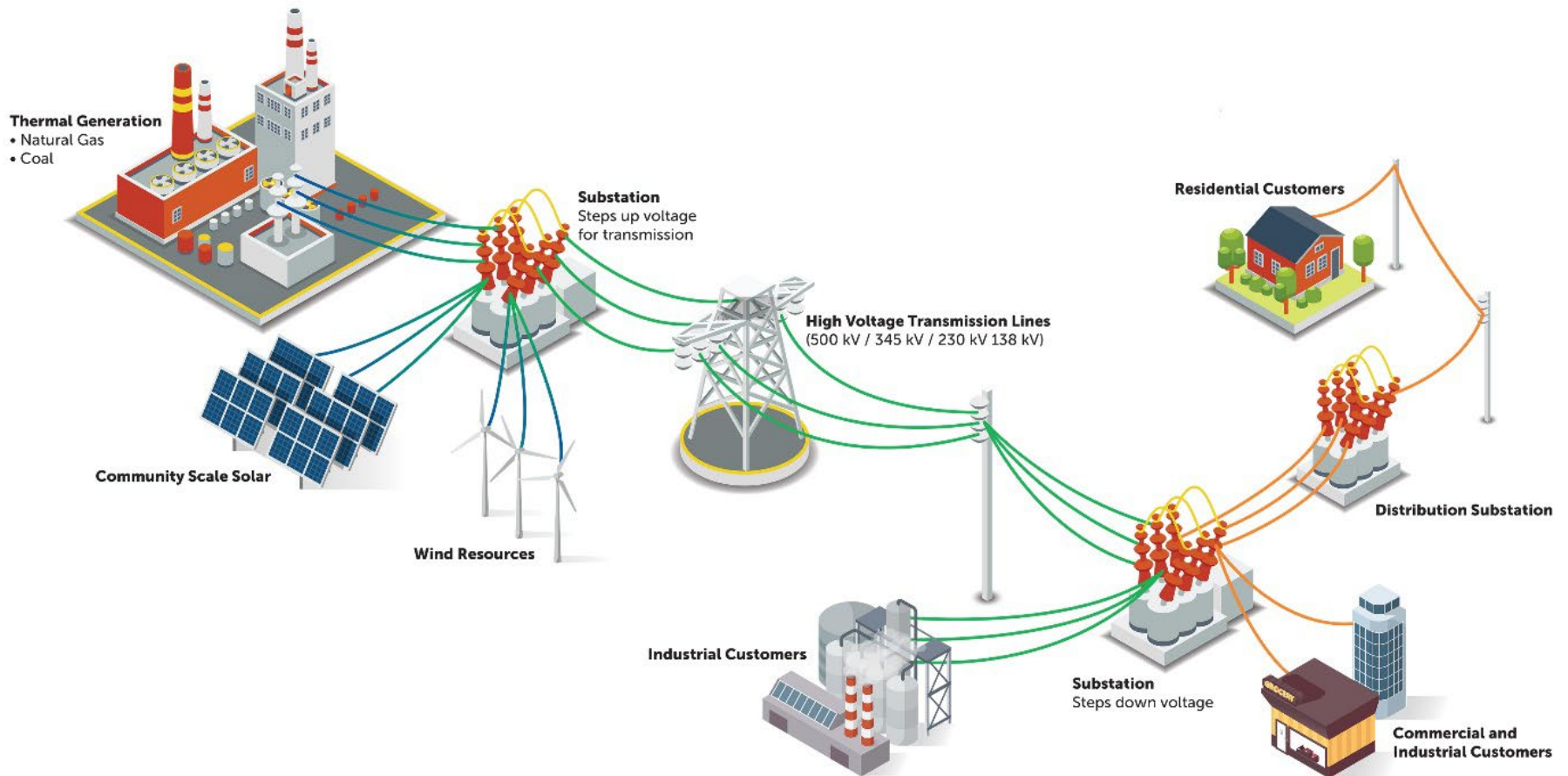


Tucson Electric Power

Agenda

- Introductions
- Study Area
- Purpose and Need
- About the Project / Aesthetics
- Transmission Line Siting Process
- Evaluation Criteria
- Preliminary Segments
- Timeline
- Public Participation
- Questions

How Power Gets to You



Generation






Transmission

Sub-Transmission and Distribution



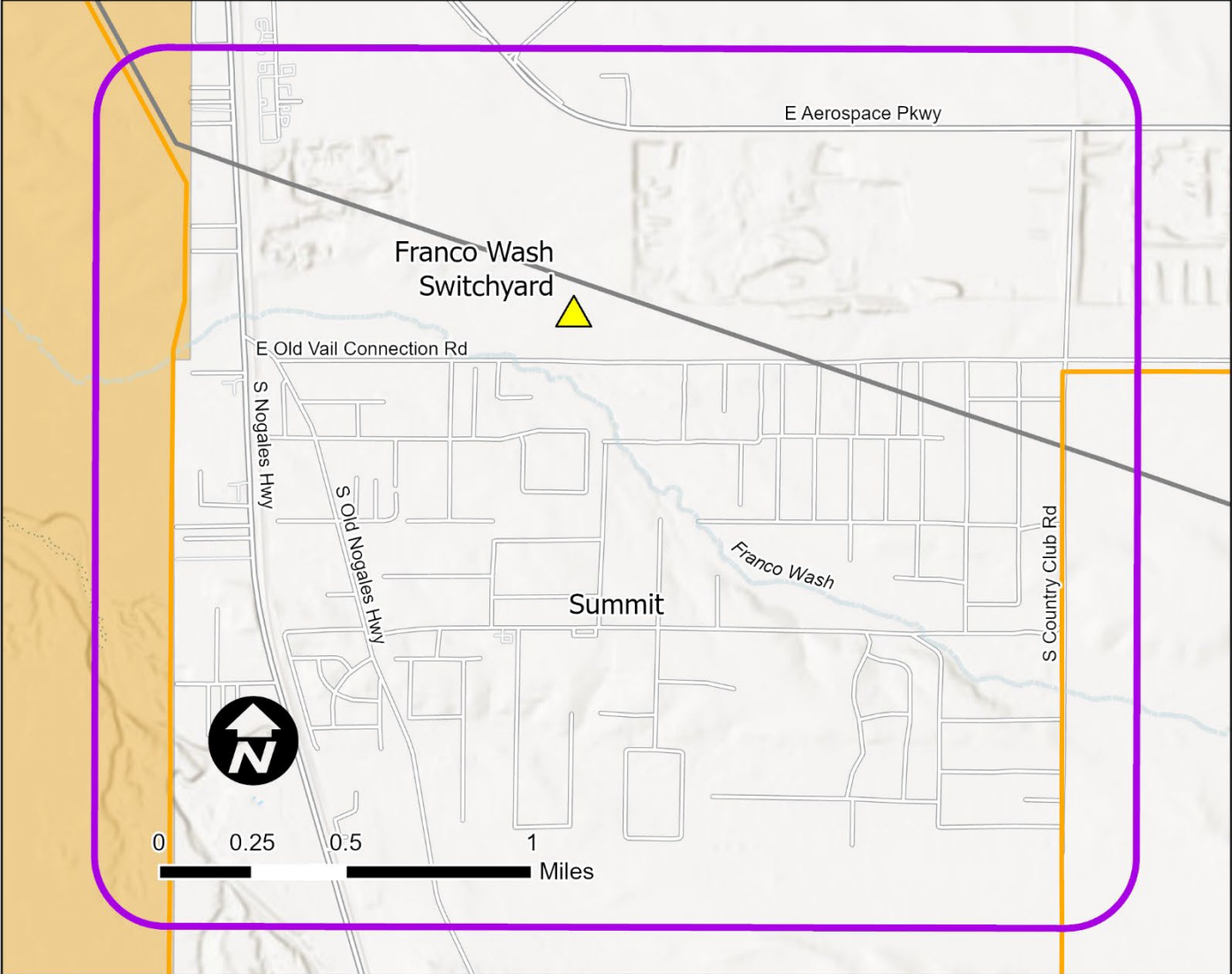
Study Area

LEGEND

-  Study Area
-  San Xavier District, Tohono O'odham Nation
-  Existing 138kV Line (TEP)
-  Existing 115kV Line (WAPA)
-  Proposed Switchyard

Sources: ESRI, Tucson Electric Power, Pima County, and Bureau of Land Management
Projection: NAD 1983 UTM Zone 12N
Basemap: Terrain with Labels

This map is for planning purposes only.
TEP makes no warranty of its accuracy.



Purpose and Need

- New facilities will serve aerospace and other supply chain industries planned at the Aerospace Research Campus.
- Support economic development and job creation.
- Help meet current and future energy needs without impacting service to existing customers.

About the Project

- A **138 kilovolt (kV) transmission line** will be built over approximately 1.5 miles, extending service to a **proposed switchyard**.
 - **Transmission lines** transmit electricity at a high voltage (115 kV and above).
 - A **Switchyard** is an enclosed power facility that contains breakers and switches that move power from one area to another while preventing electrical overload.

Transmission Lines

Pole Characteristics

Type: Tubular, weathering steel monopoles

Pole height: ~75 feet (typical)

Span length: 600-1,000 feet
(distance between poles)

Poles per mile: 5-9 structures

Right of way width: Up to 100 feet



Switchyard



Transmission Line Siting Process

- Under state law, TEP must secure a Certificate of Environmental Compatibility (CEC) to build the transmission line.
- TEP plans to file a CEC application in fall 2023 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 TEP can begin construction.



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

Refine Segments



Phase 4: Compatibility Analysis

Develop Route Alternatives



Phase 5: Concept Evaluation

Conduct Public and Stakeholder Outreach

Field Review







Submit CEC Application

Evaluation Criteria

- Impact on existing and planned land uses by state, local and private entities
- Impact on fish, wildlife, and plants
- Impact on special status species and their habitat
- Proximity to sensitive noise receptors
- Proximity to licensed communication sites
- Impact on designated scenic areas
- Impact on historic and archaeological sites
- Overall environmental impact
- Ability to construct and maintain facilities
- Cost
- Compliance with state, county or city ordinances

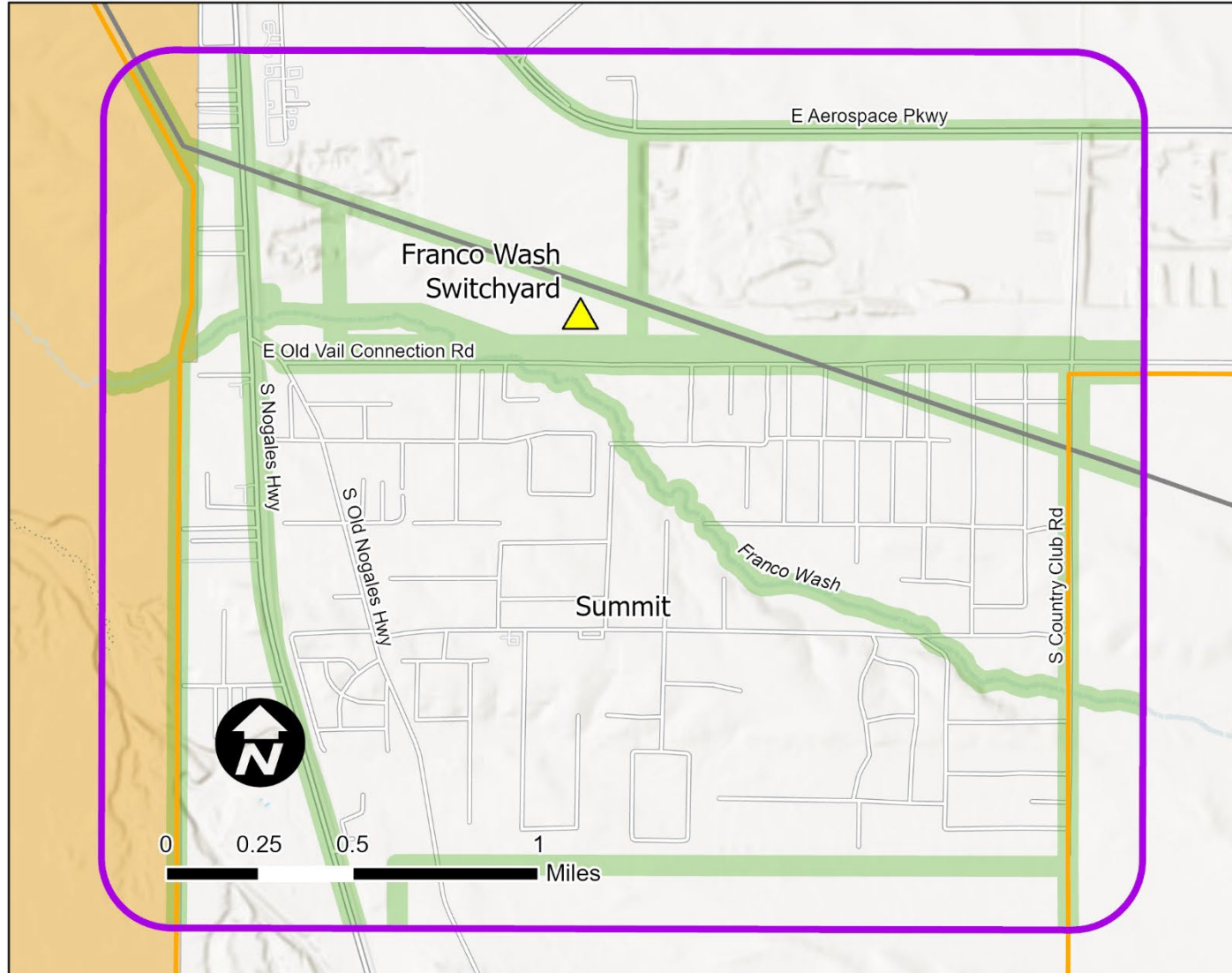
Opportunities

LEGEND

-  Study Area
-  San Xavier District, Tohono O'odham Nation
-  Existing 138kV Line (TEP)
-  Existing 115kV Line (WAPA)
-  Proposed Switchyard
-  Opportunities








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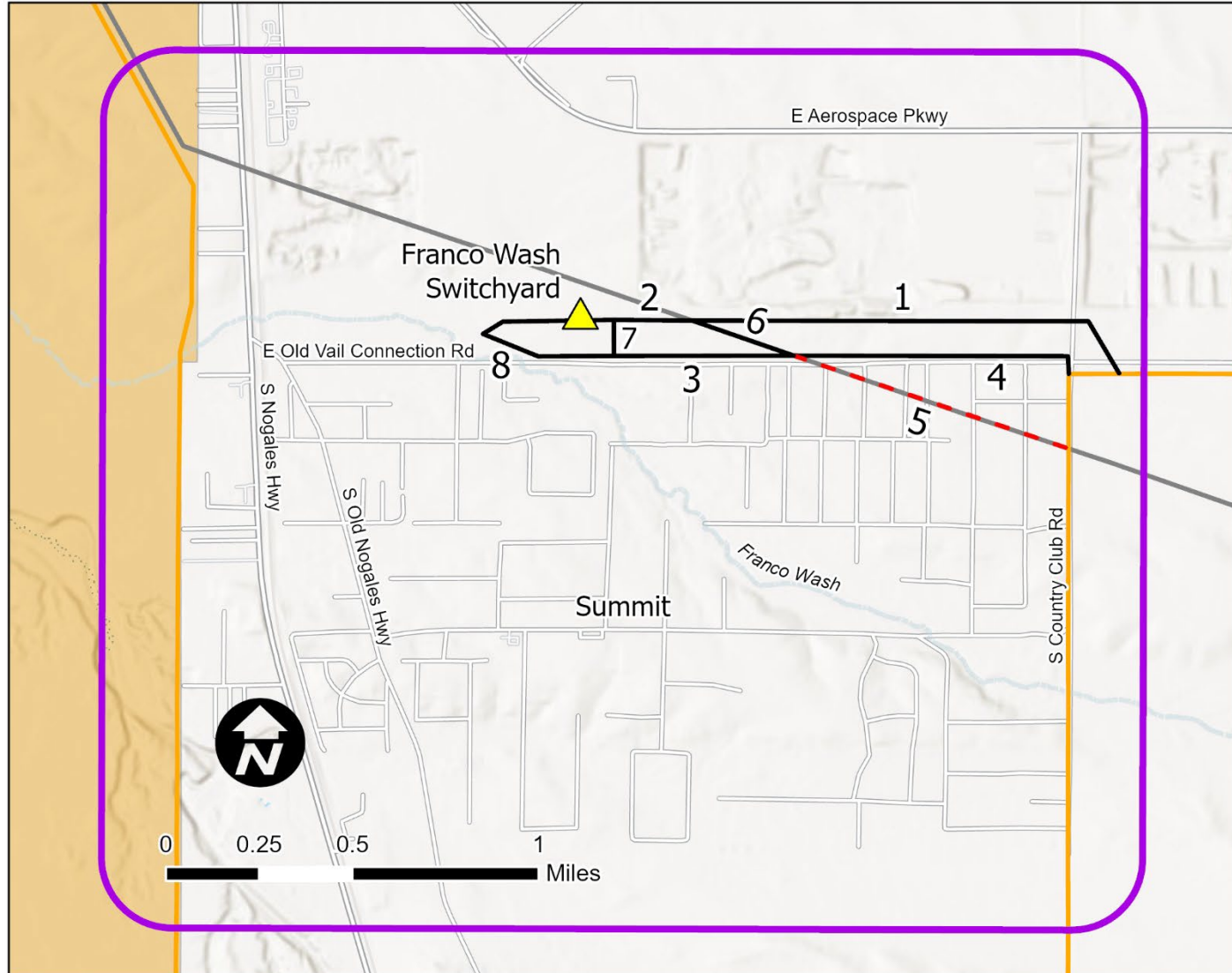
Preliminary Segments

LEGEND

-  Study Area
-  San Xavier District, Tohono O'odham Nation
-  Existing 138kV Line (TEP)
-  Existing 115kV Line (WAPA)
-  Proposed Switchyard
-  Segments Under Consideration
-  Eliminated Segment

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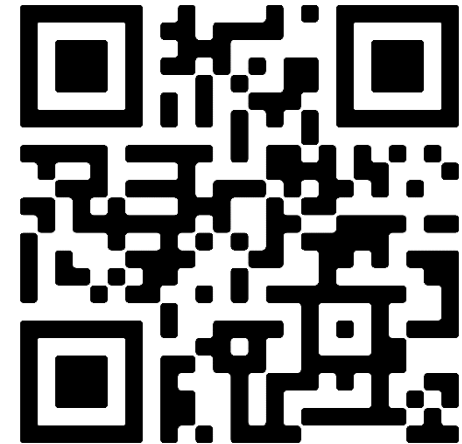


Timeline

- Public Open House #1 – July 27
- Public Open House #2 – Sept. '23
- CEC Application Submittal – fall '23
- Transmission Line Siting Committee Hearing – late'23
- ACC Open Meeting – Q1 2024
- Project in Service – 2026

Public Participation

- Mail a letter with comments to:
P.O. Box 711
ATTN: Aerospace Research Campus
Mail Stop CB200
Tucson, AZ 85701-0711
- Send comments to arc@tep.com
- Fill out an [online comment form](#)
- Call 1-833-655-0399 and leave a voicemail message



tep.com/aerospace-research-campus

Questions?

