

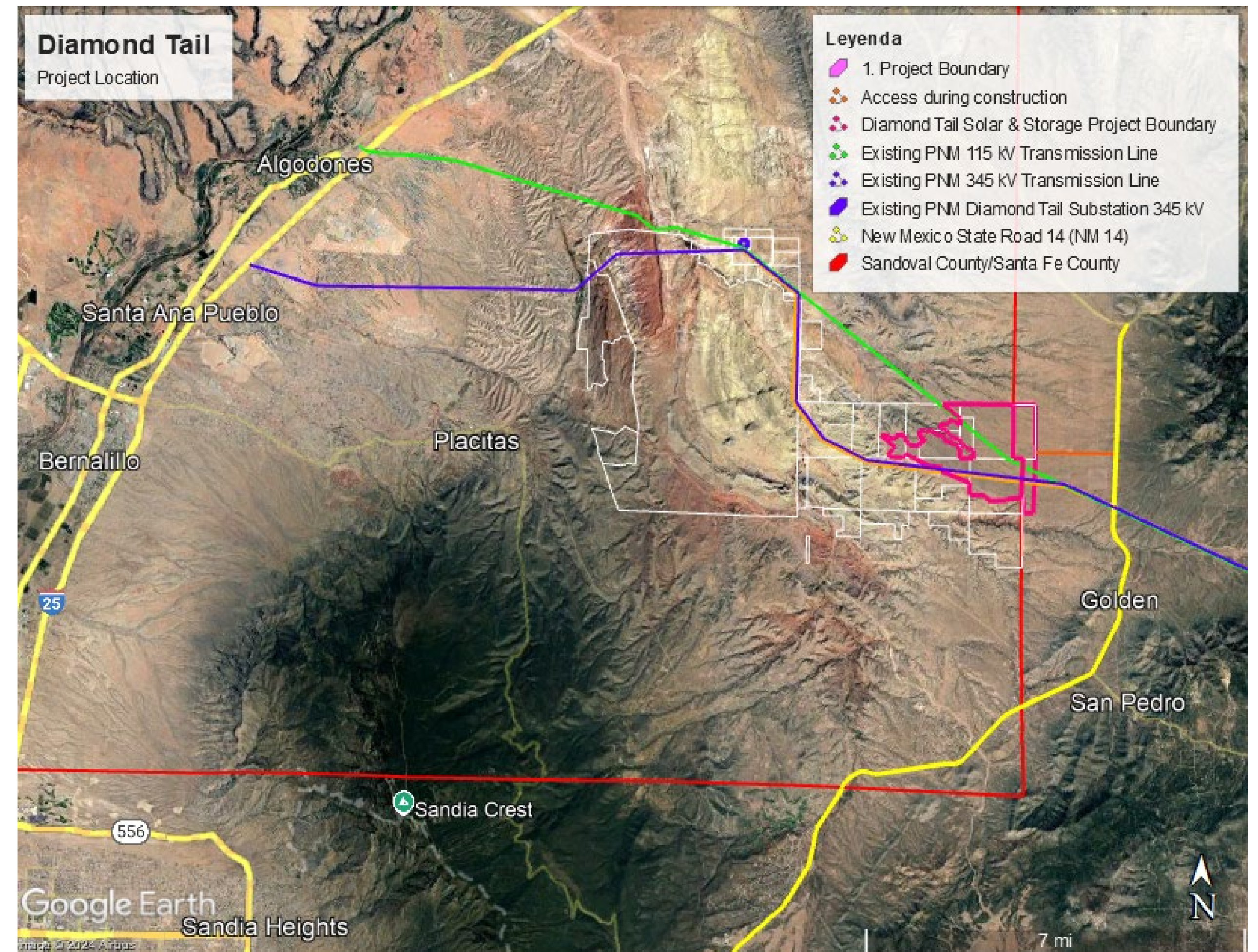


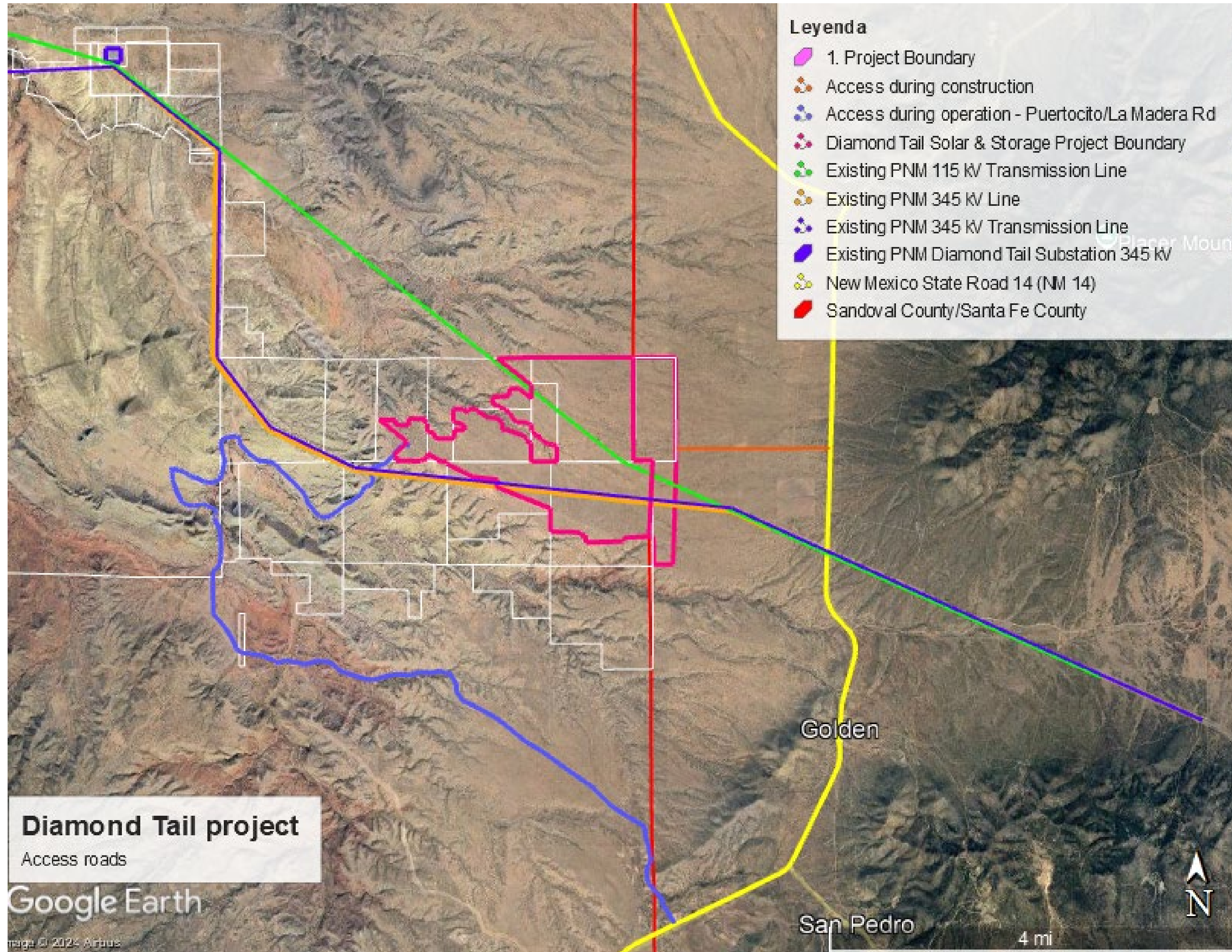
**Diamond Tail
Solar and Storage Project**



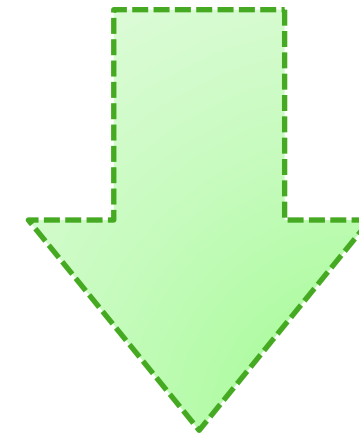
**Public Hearing
December 10th, 2024**

- **Project Location**
- **Development Timeline**
- **Economic & Environmental Benefits**
- **Main concerns:**
 - **Access / Water use / Environmental**
 - **Safety / Emergency Response Plan**
 - **Visual Impact**





Project Size	220 MW AC + 110 MW/440 MWh battery storage (4 hours), AC Couple
Production	Estimated output of 607 GWh/year – more than the entire annual residential load of Sandoval County and Santa Fe County.
Location	Sandoval County, New Mexico
Site Control	Secured project lease of 1,800 acres on >18,000-acre Diamond Tail
Access	Chavez Ranch during Construction / Puertocito & La Madera during Operation
Proposed Point of Intercon.	PNM Diamond Tail 345 kV Switching Station - DISIS Cluster #15 - Queue number: IA-PNM-2022-02
Gen-Tie Route	5.9 miles of 345 kV gen-tie route located on Diamond Tail Ranch, Close to existing HV transmission power lines and PNM Sub-Station
Asset life	30-years, followed by decommissioning & site restoration
Construction Timeframe	starts in H1 2027, and the time frame is 18-24 months
Operations & Maintenance	Remote and on-site operation with limited site traffic
Grounding	All project components are grounded according to electrical standards. In addition, lightning arresters will be installed.
Fencing	Wildlife-friendly agricultural fence (≈6-strand wire, 7 ft. tall posts, 48-54" high fence) will enclose entire project area. BESS area will be enclosed by 7-ft. chain-link security fence.



Project Bid, Design, & Permitting

Construction

Operation

2022	2023	2024	2025	2026-2028	2028 – 2058
<ul style="list-style-type: none"> Secured land Initial site studies Interconnect. Studies commence 10% design complete 	<ul style="list-style-type: none"> Initial SUP application submitted Site studies continue 	<ul style="list-style-type: none"> SUP application submitted Public Meetings: 08/15 Zocalo Plaza 09/03; 29/10; 12/3; 12/4 Vista Grande C. Center P&Z Commission hearings: 09/10; 10/08; 12/10 Sandoval County 	<ul style="list-style-type: none"> Target Feasibility study PNM Target permit SUP approval 	<ul style="list-style-type: none"> Target GIA & PPA PNM 100% design complete - Contract EPC Initiate construction in 1H 2027 Conclude construction/ interconnection in 2028 	<ul style="list-style-type: none"> Operate for 30 years Repower or decommission Project Restore land

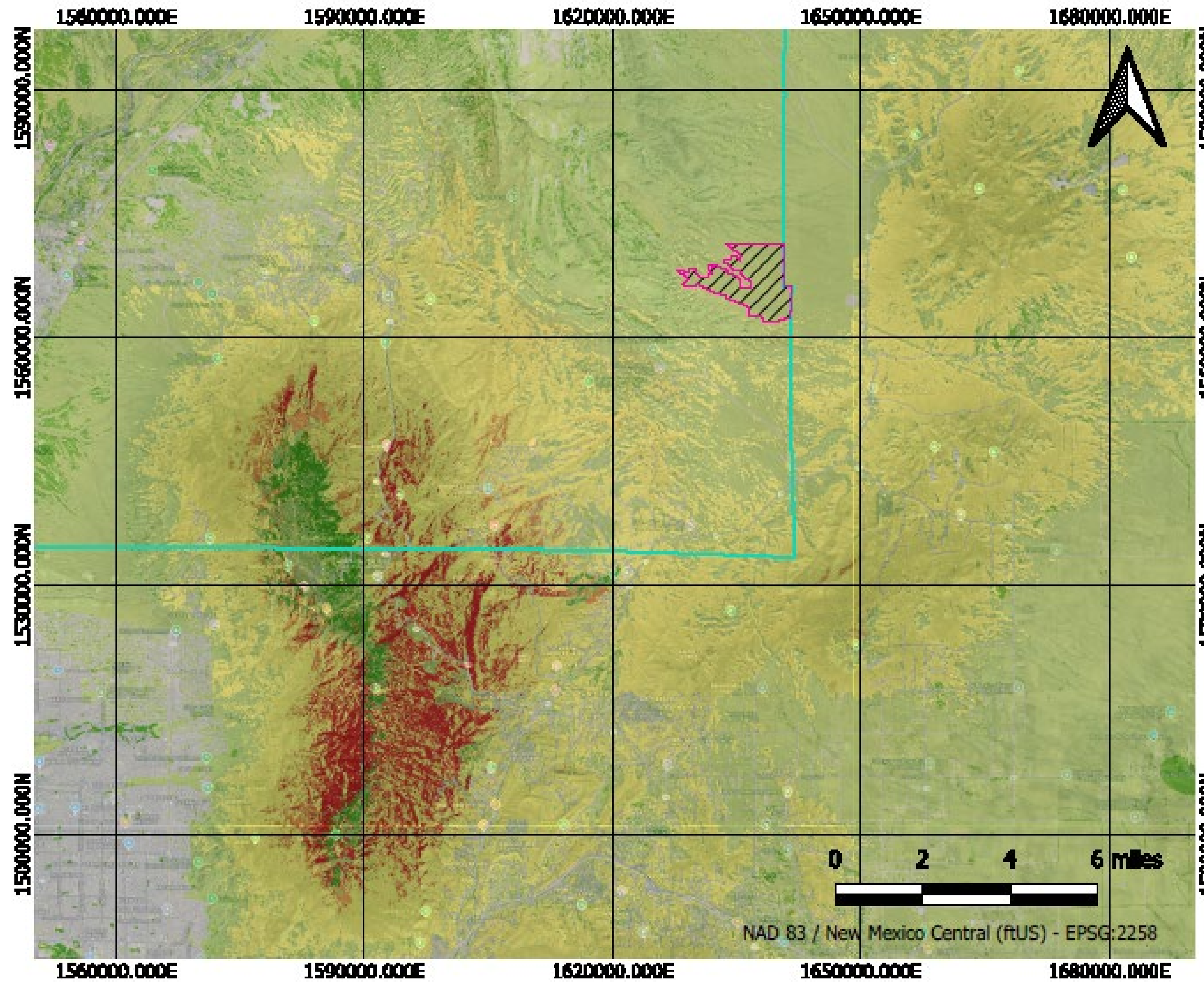
- **>\$450 million capital investment**
- **\$40 million in labor and wages**
- **300 construction jobs (direct)**
- **15-20 O&M personnel jobs, long-term**
- **Contributions to local services (accommodations, food services & restaurants, materials, and professional services)**
- **>\$30 million in property taxes**
- **\$11.8 million over 30 years to local school districts**
- **Replace generation capacity lost by closure of coal-fired plants in Four-Corners area with clean renewable power.**
- **Low impact development that diversifies and strengthens grid resiliency in Sandoval County & NM.**
- **Serve ~2% of all of New Mexico's load in support of its goal to procure 100% renewable energy by 2045.**
- **Avoid emissions equivalent of ~75,000 gasoline-powered cars annually.**

- **Emergency Response Plan (ERP):** coordinating with Sandoval County's Marshall to discuss emergency response, resources, training, and coordination with other entities (La Madera Volunteer Fire Department and Bernadillo County Fire Department).
- **Battery unit fire** can be contained on-site and not spread to other battery units. Individual battery units will be placed on concrete pads and the entire BESS area will have 100 ft of an unvegetated gravel buffer to reduce the risk of fire escape to surrounding vegetation.
- **Noise:** Sandoval County's allowable sound levels are 75 dB from agricultural, utility, and industrial activities. The noise impact assessment demonstrates that the Project will comply with applicable noise regulations during the construction and operation phases.
- **Environmental studies:** Wetland, Topographic, Geotechnical, Drainage, Phase I, T&E updated show minimal impact in the area. PCR will work with specialists to mitigate it.
- **Water use:** During construction, water will be used for controlling dust and mixing concrete. Construction water will be transported to the site (15/20 trucks per day), approximately 19MM gallons/year. During O&M period, water will be used to clean solar panels once a year (2 months) (1l/panel ~500k panels = 25 trucks/m), equivalent water use of about 2 residential homes/year.
- **Visual Impact:** 4 key observation points defined.
- **Access:** During construction will use private access from NM14 /Chavez ranch) and during operation we will use Puertocito Rd. Sandoval County maintains Puertocito Rd. within the county under a prescriptive easement. The beginning of Puertocito Rd. (0.38 mile) lies within Santa Fe County. PCR is engaged with both counties regarding ongoing roadway maintenance estimate only 4-6 SUV/light trucks per day



Brian van der Brug / Los Angeles Times



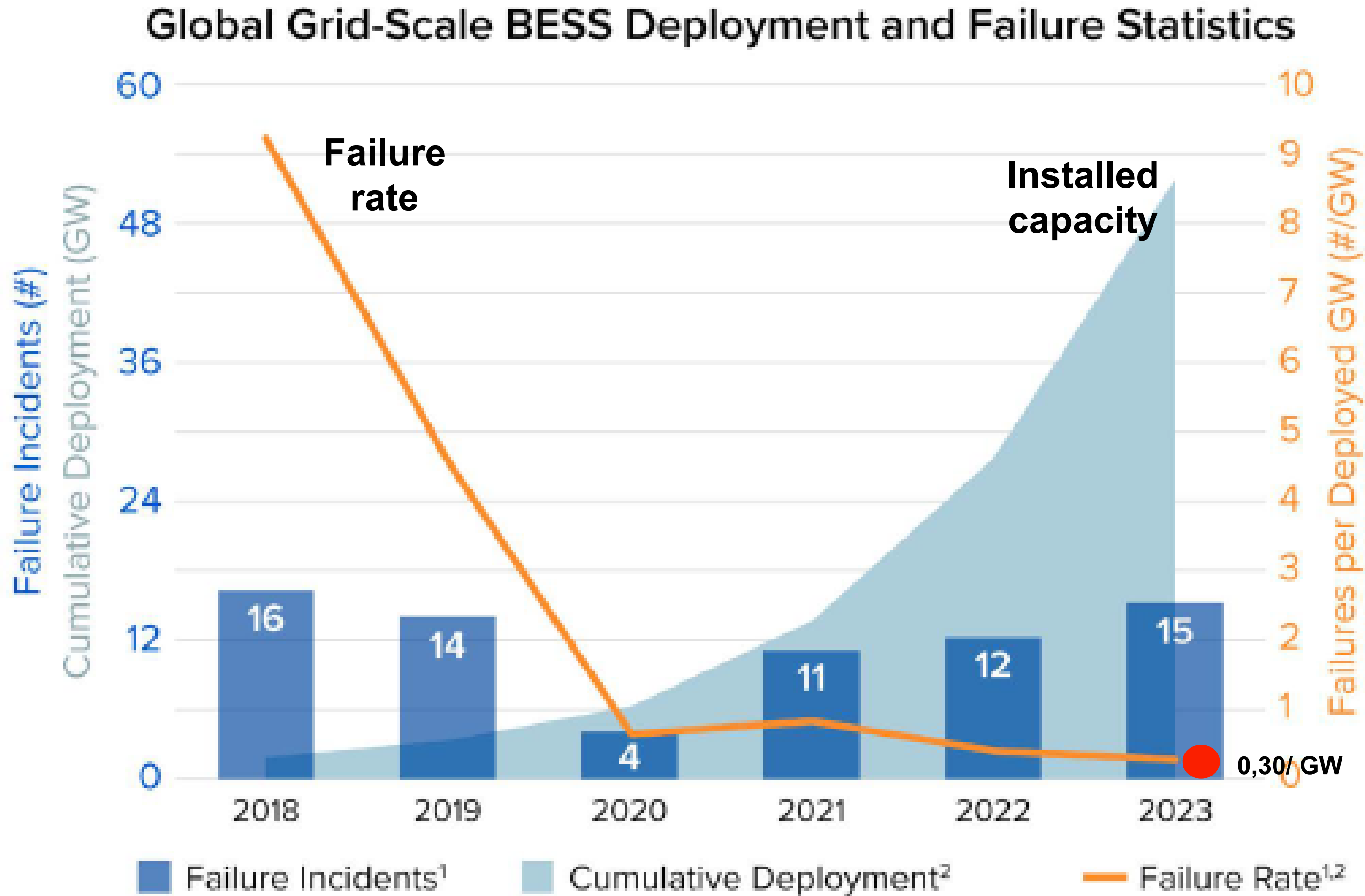


Legend

- Project Boundary
- Sandoval County

USDA Wildfire Hazard Potential

- Non Burnable
- Very Low
- Low
- Moderate
- High
- Very High

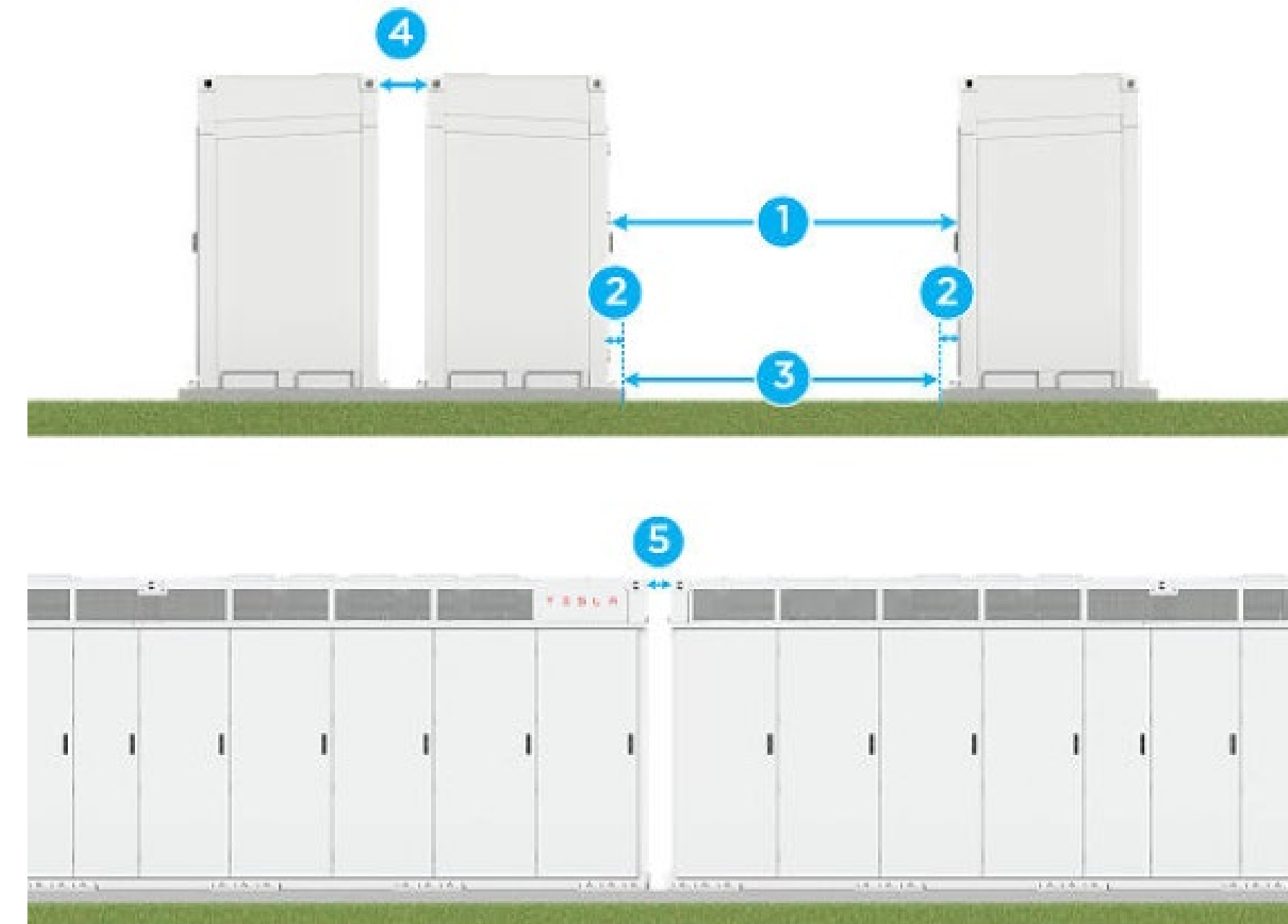
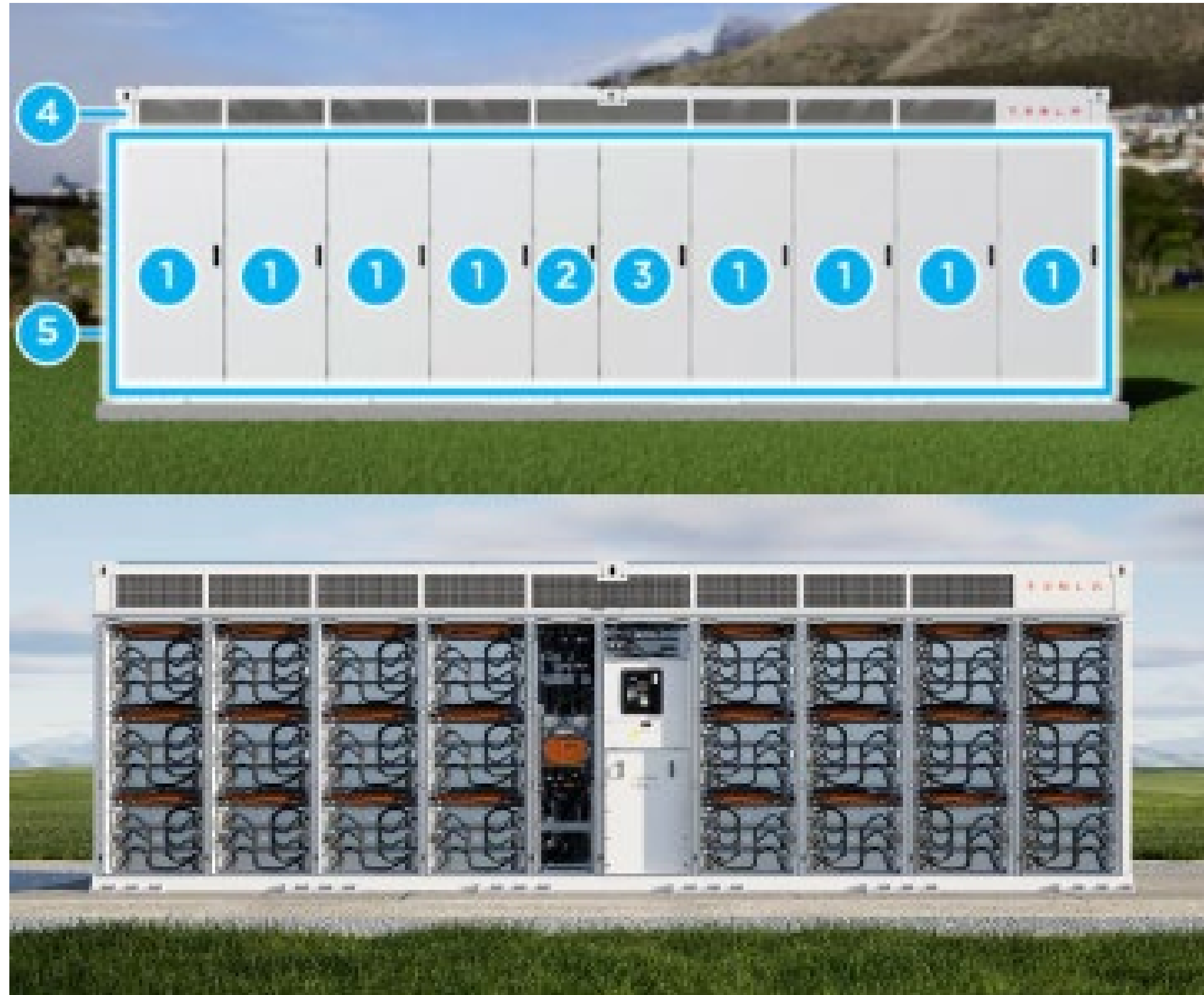


- 2023 Installed BESS capacity globally: +50 GW
- 2023 Installed BESS capacity in USA: 16 GW
- 2024 BESS capacity will double to 30 GW

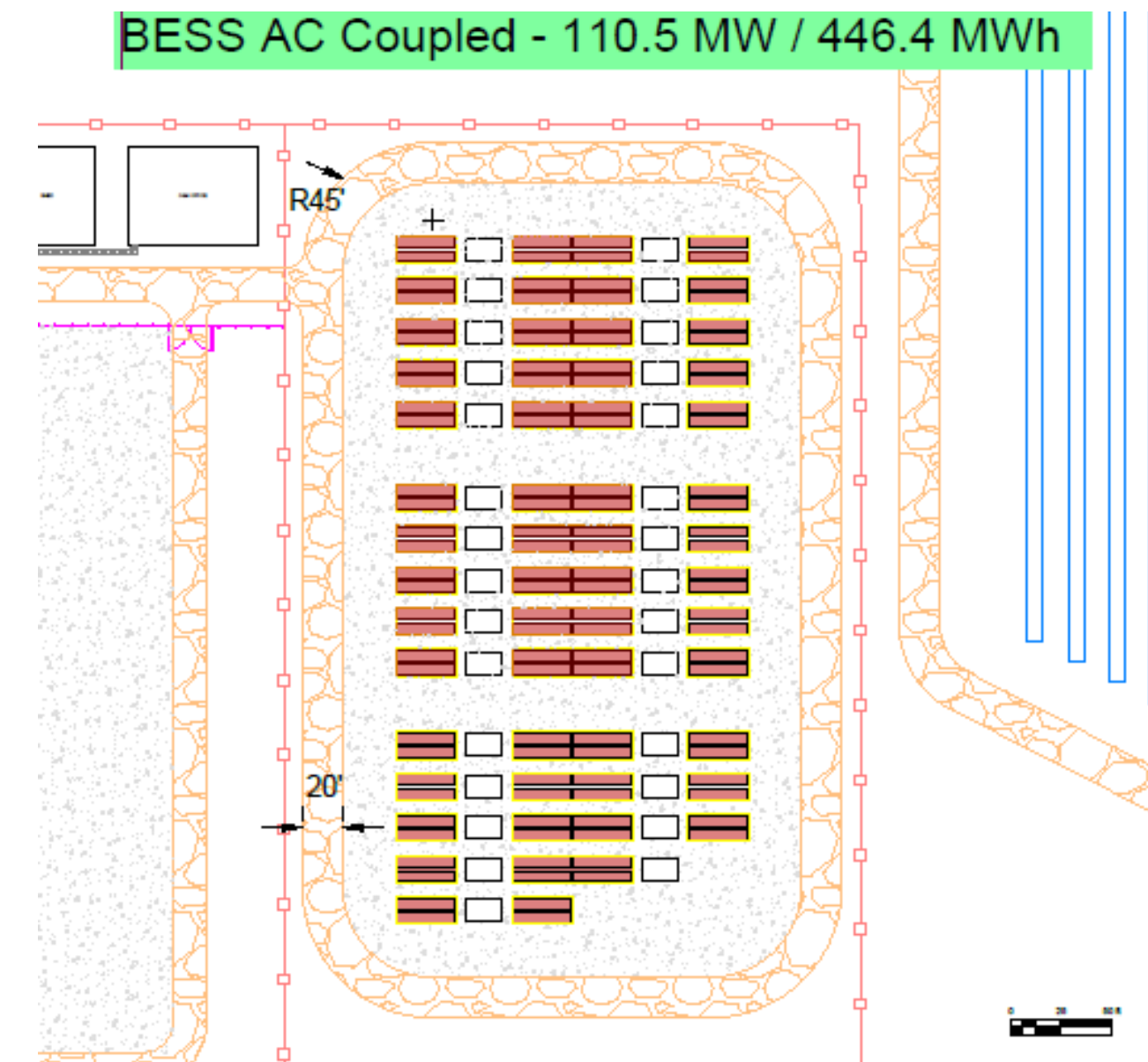
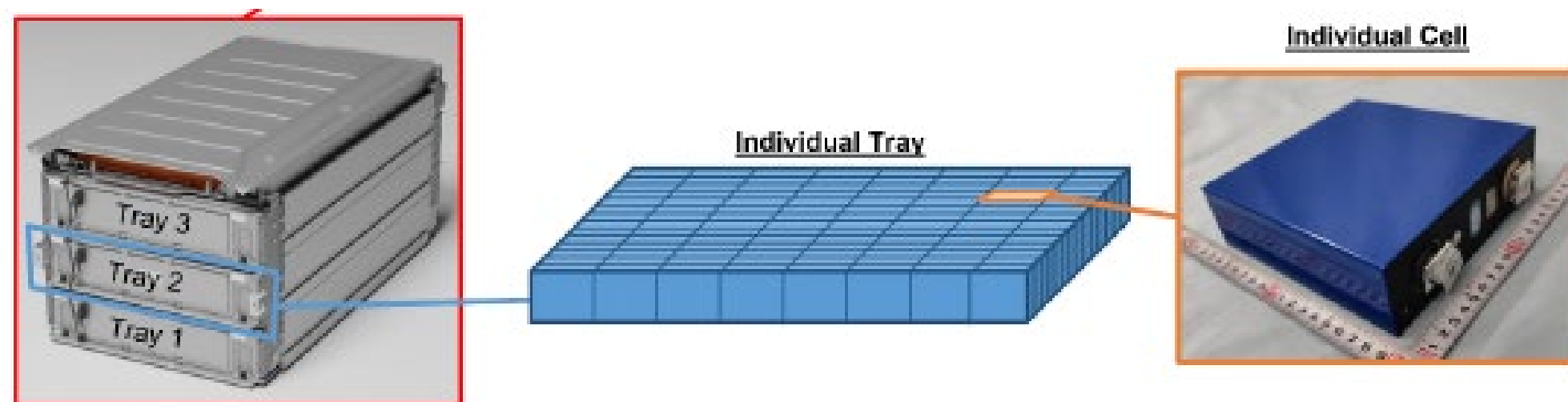
The global installed capacity of utility-scale battery energy storage systems (BESS) has dramatically increased over the last five years. While recent fires afflicting some of these BESS have garnered significant media attention, the overall rate of incidents has sharply decreased, as lessons learned from early failure incidents have been incorporated into new designs and best practices. Between 2018 and 2023, the global grid-scale BESS failure rate has dropped 97%.

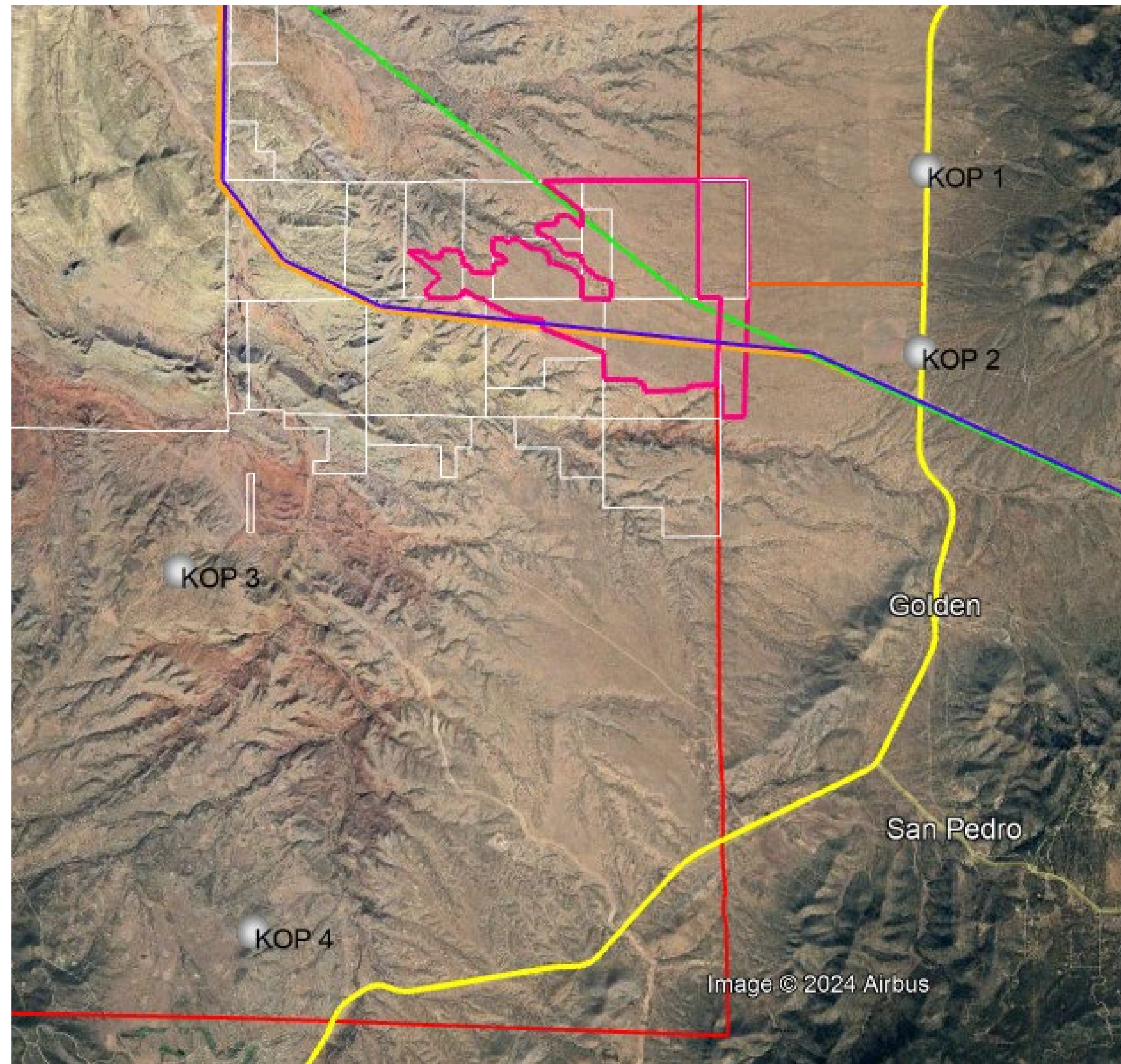
Electric Power Research Institute’s 2024 White Paper: Insights from EPRI’s Battery Storage System (BESS) Failure Incidents Database – Analysis of Failure Root Cause.

Sources: (1) EPRI Failure Incident Database, (2) Wood Mackenzie. Data as of 12/31/23.



BESS AC Coupled - 110.5 MW / 446.4 MWh





Sun and Weather

Sunny | Date: **11-12-24** | Photo Time: **2:00 pm**

Visibility: | **Air Quality: Good**

Sun Azimuth (degrees): **200.04**

| Sun Angle (degrees): **34.45**

Lighting Angle on Project: **Side**

Wind: **5 mph**

Cloud Cover: **20 %**

Temperature (°F): **60° F**

Panels are facing east to reflect morning conditions.

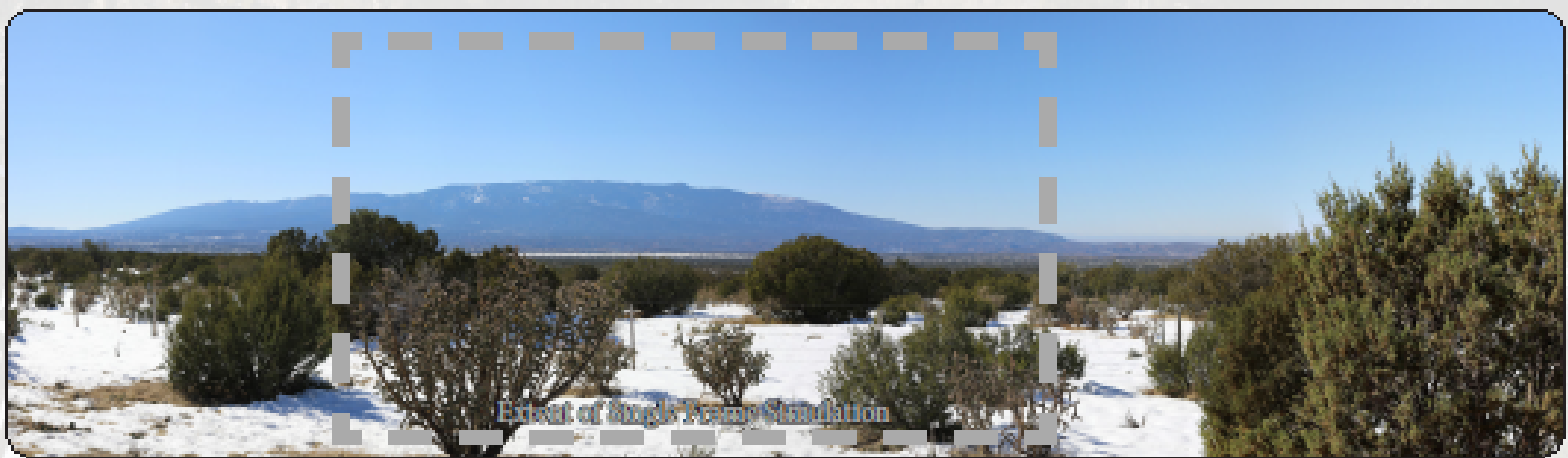
Simulation was prepared using information provided by client, "Site Plan Development Plan Diamond Tail" dated November 5, 2024. Locations, colors, and heights may vary based on final engineering and design.

Diamond Tail Solar Energy Project

Project Location

Legend: Key Observation Point (KOP), BESS, Photography Angle, Project Area, Substation, Solar Panel Array, Gen-tie. Note: Field of view shading does not represent visibility.

Structure Diagram



KOP 1 - New Mexico State Route 14 - Turquoise Trail

Base Photographic Documentation

Latitude, Longitude (degrees): 35.32008, -106.21507

Viewpoint Elevation (feet): 6,725

Camera Height (meters): 1.5

Camera Heading (degrees): 250

Camera Make & Model: Canon EOS 5D Mark IV

Camera Sensor Size (mm): 36 x 24 Full Frame

Lens Make & Model: AF-P Nikkor

Lens Focal Length (mm): 50

Image Size (pixels): 6720 x 4480

Approximate Distance to Nearest Solar Panels in Simulation: **2.2 miles**

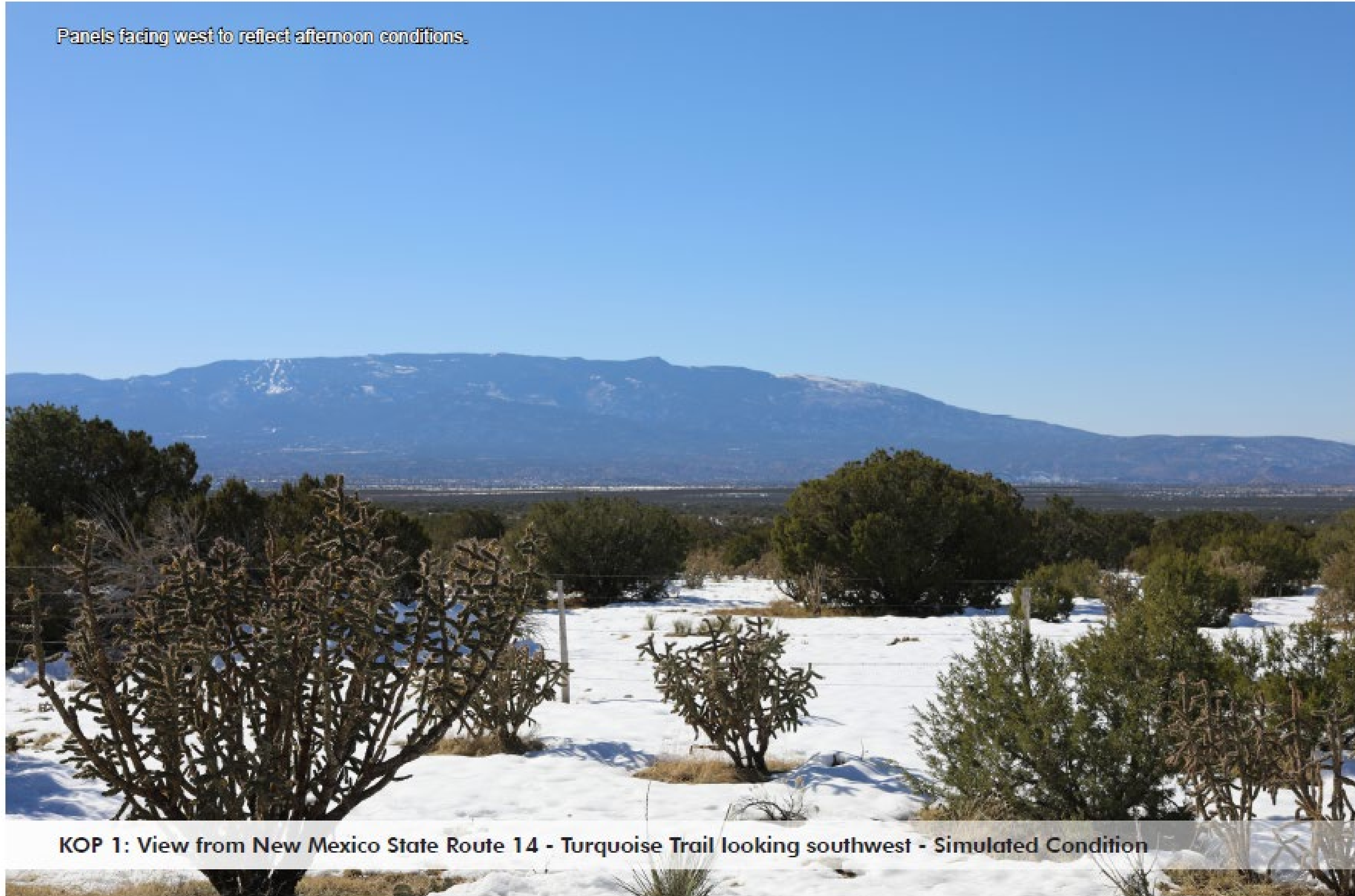
Approximate Distance to Nearest Gen-Tie in Simulation: **4.3 miles**

Viewing Instructions: Printed at 100% the resulting simulation is 16 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed at arms length (24 inches). If viewed on a computer monitor, scale should be 100%.



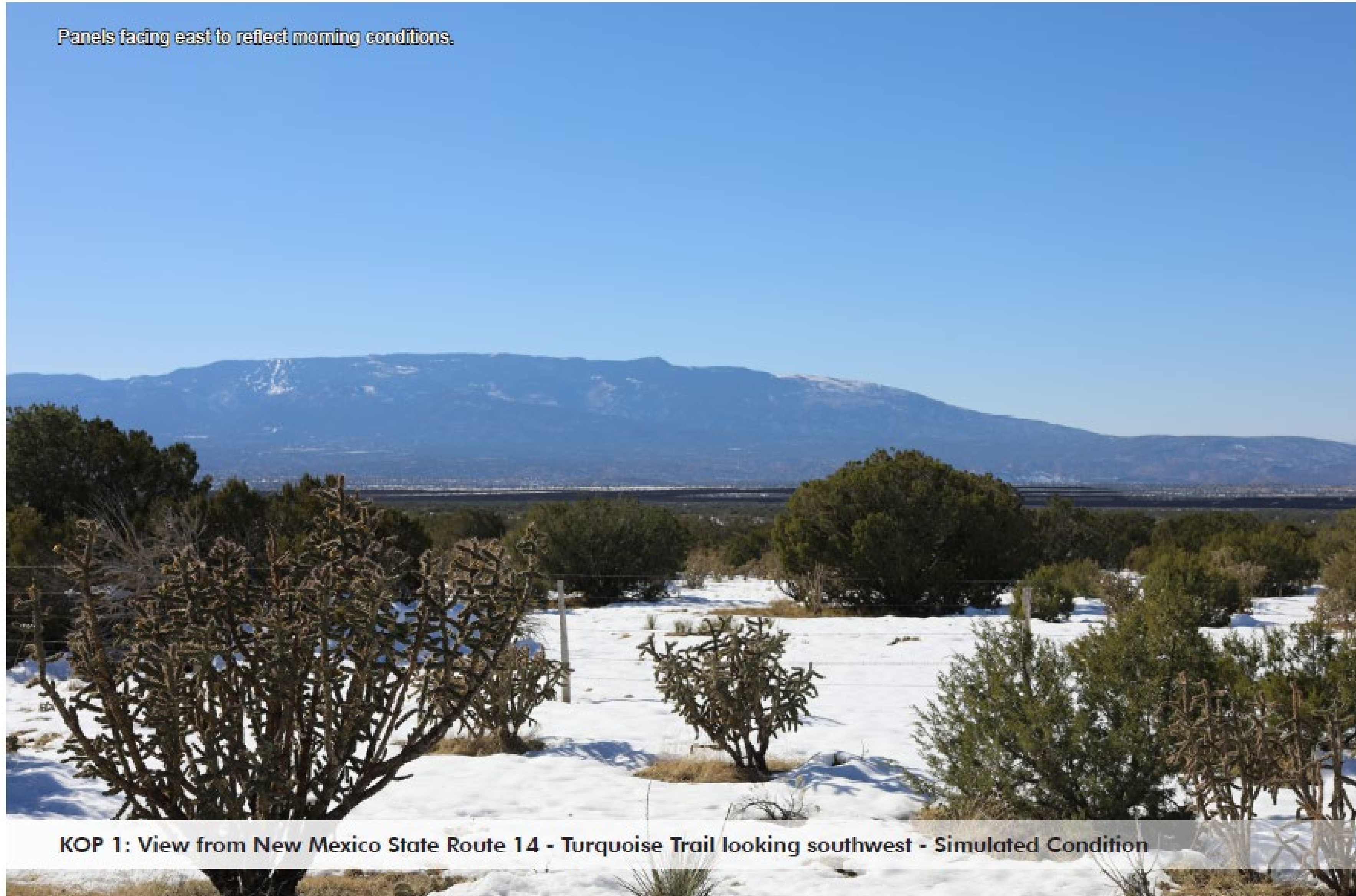
KOP 1: View from New Mexico State Route 14 - Turquoise Trail looking southwest - Existing Condition

Panels facing west to reflect afternoon conditions.



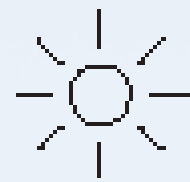
KOP 1: View from New Mexico State Route 14 - Turquoise Trail looking southwest - Simulated Condition

Panels facing east to reflect morning conditions.



KOP 1: View from New Mexico State Route 14 - Turquoise Trail looking southwest - Simulated Condition

Sun and Weather



Sunny

Date:
11-12-24

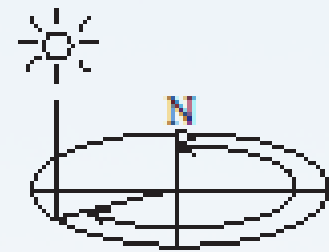
Photo Time:
2:15 pm

Visibility:



Air Quality: Good

Sun Azimuth (degrees): **204.1**



Sun Angle (degrees): **33.3**

Lighting Angle on Project: **Side**

Wind: **5 mph**

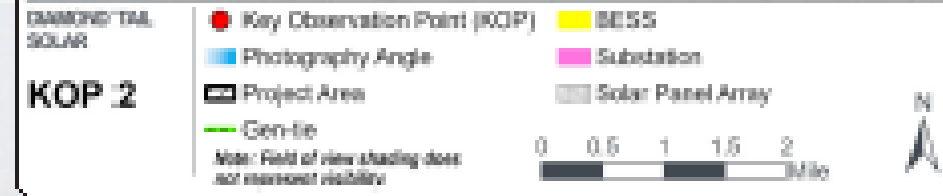
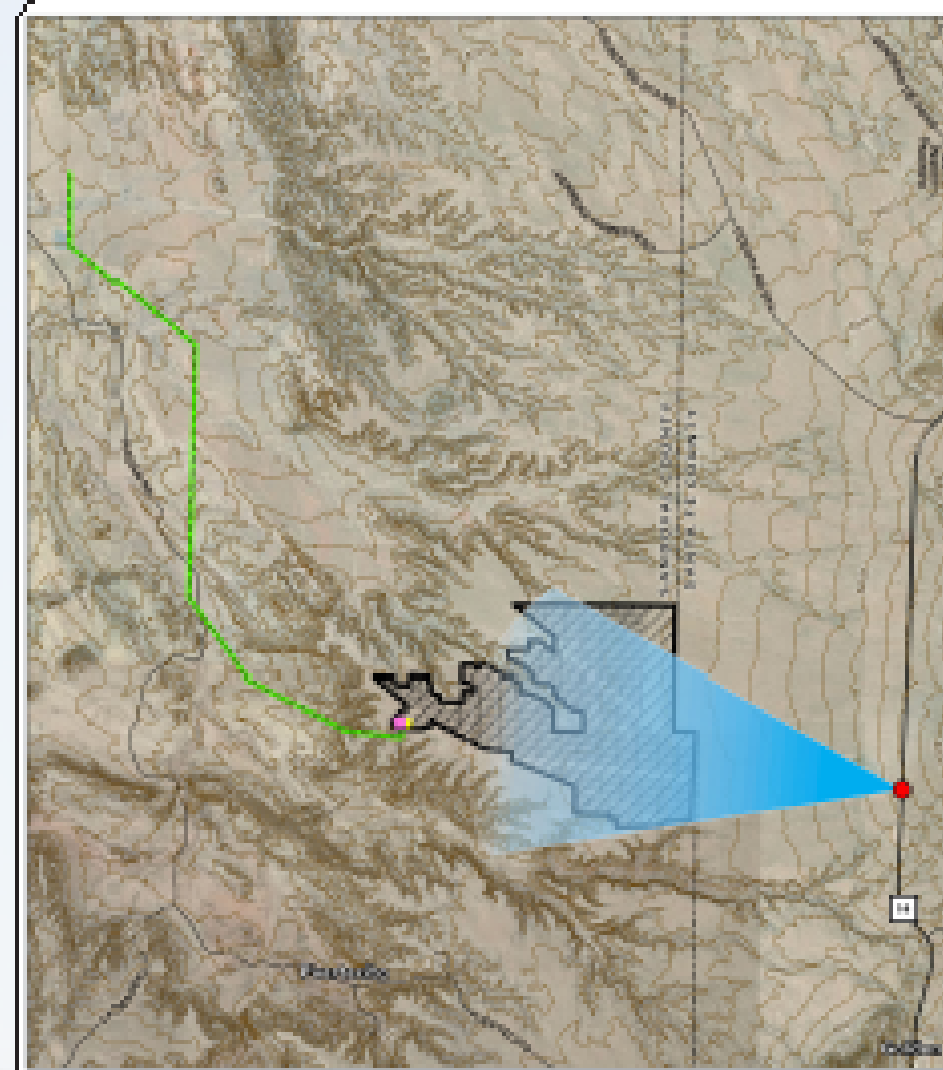
Cloud Cover: **20 %**

Temperature (°F): **60° F**

Panels are facing west to reflect afternoon conditions.

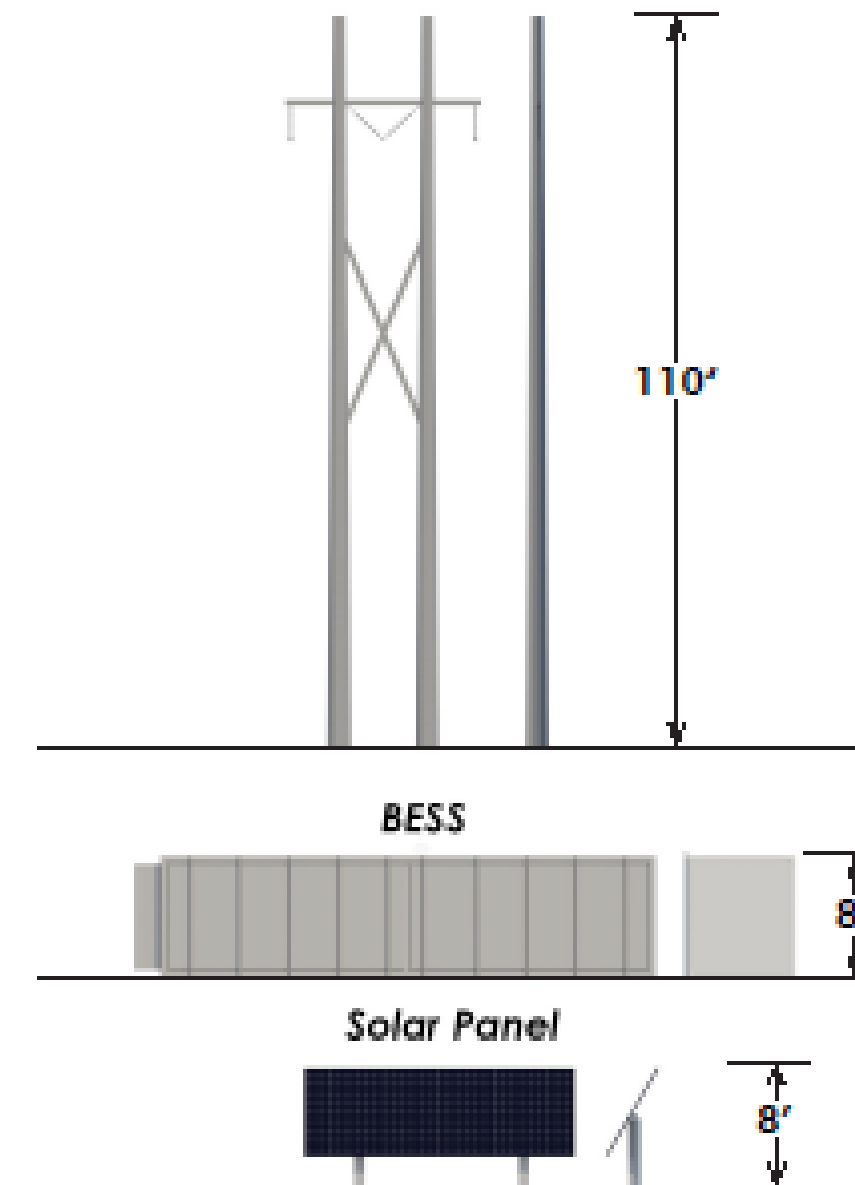
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Diamond Tail Solar Energy Project



Project Location

H-Frame Structure



Structure Diagram

KOP 2 - New Mexico State Route 14 - Turquoise Trail

Base Photographic Documentation

Latitude, Longitude (degrees):
35.297945, -106.215907

Viewpoint Elevation (feet):
6,725

Camera Height (meters):
1.5

Camera Heading (degrees):
280

Camera Make & Model:
Canon EOS 5D Mark IV

Camera Sensor Size (mm):
36 x 24 Full Frame

Lens Make & Model:
AF-P Nikkor

Lens Focal Length (mm):
50

Image Size (pixels):
6720 x 4480

Approximate Distance to Nearest Solar Panels in Simulation:
1.7 miles

Approximate Distance to Nearest Gen-Tie in Simulation:
4.1 miles

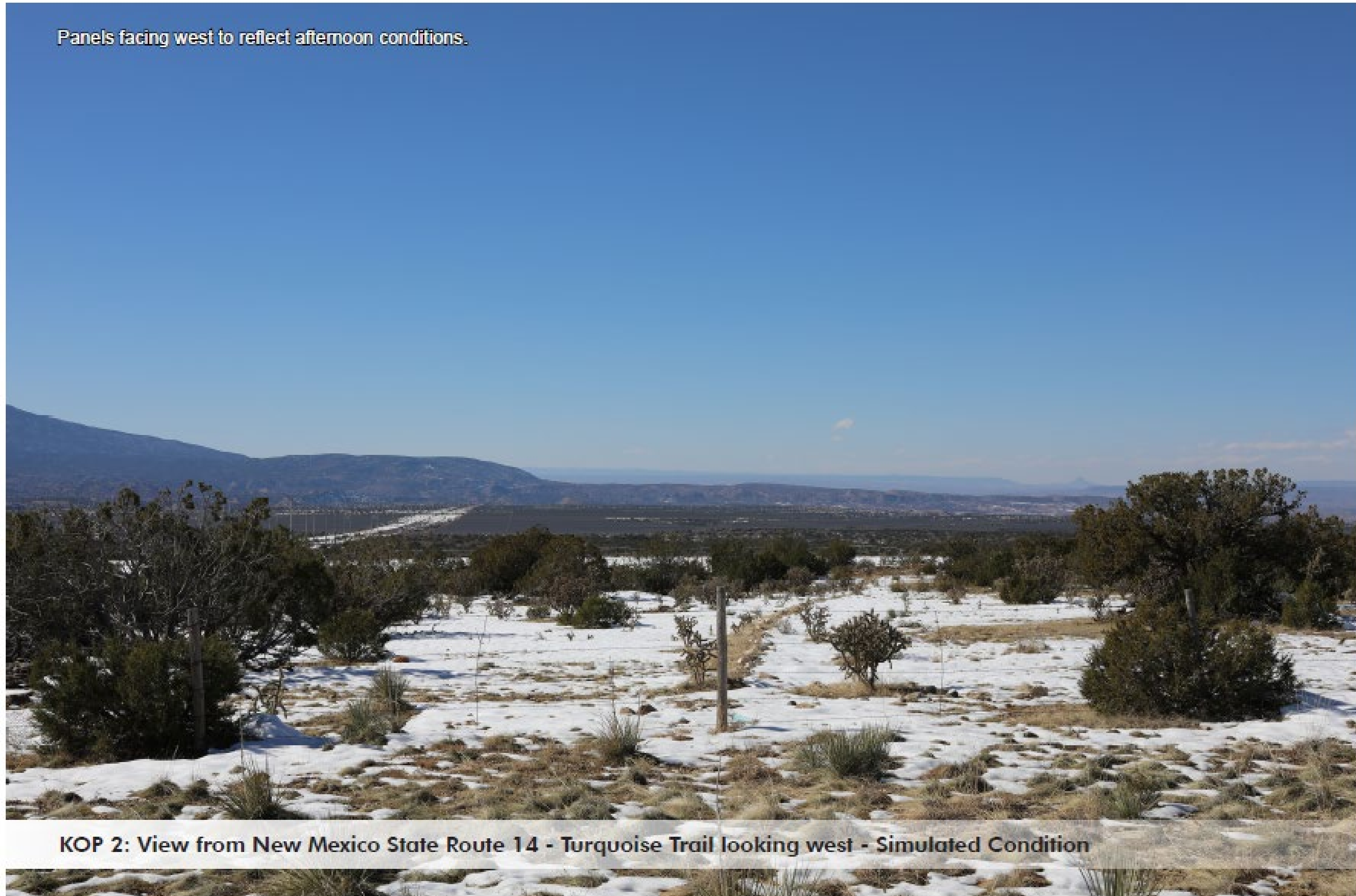
Viewing Instructions: Printed at 100% the resulting simulation is 16 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed at arms length (24 inches). If viewed on a computer monitor, scale should be 100%.





KOP 2: View from New Mexico State Route 14 - Turquoise Trail looking west - Existing Condition

Panels facing west to reflect afternoon conditions.



KOP 2: View from New Mexico State Route 14 - Turquoise Trail looking west - Simulated Condition

Panels facing east to reflect morning conditions.



KOP 2: View from New Mexico State Route 14 - Turquoise Trail looking west - Simulated Condition

Sun and Weather



Sunny

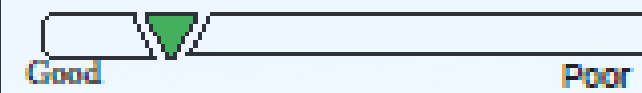
Date:

11-12-24

Photo Time:

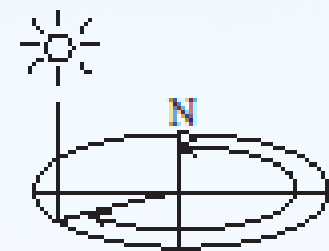
3:40 pm

Visibility:



Air Quality: Good

Sun Azimuth (degrees): 224.79



Sun Angle (degrees): 34.87

Lighting Angle on Project: Side

Wind: 5 mph

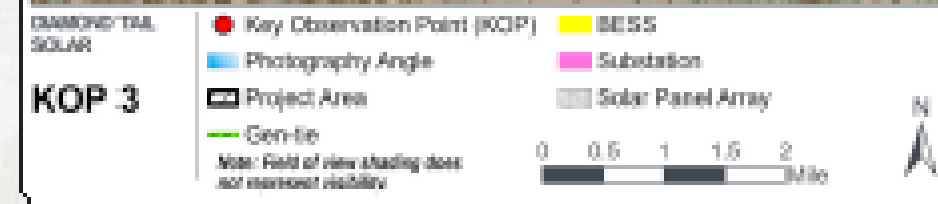
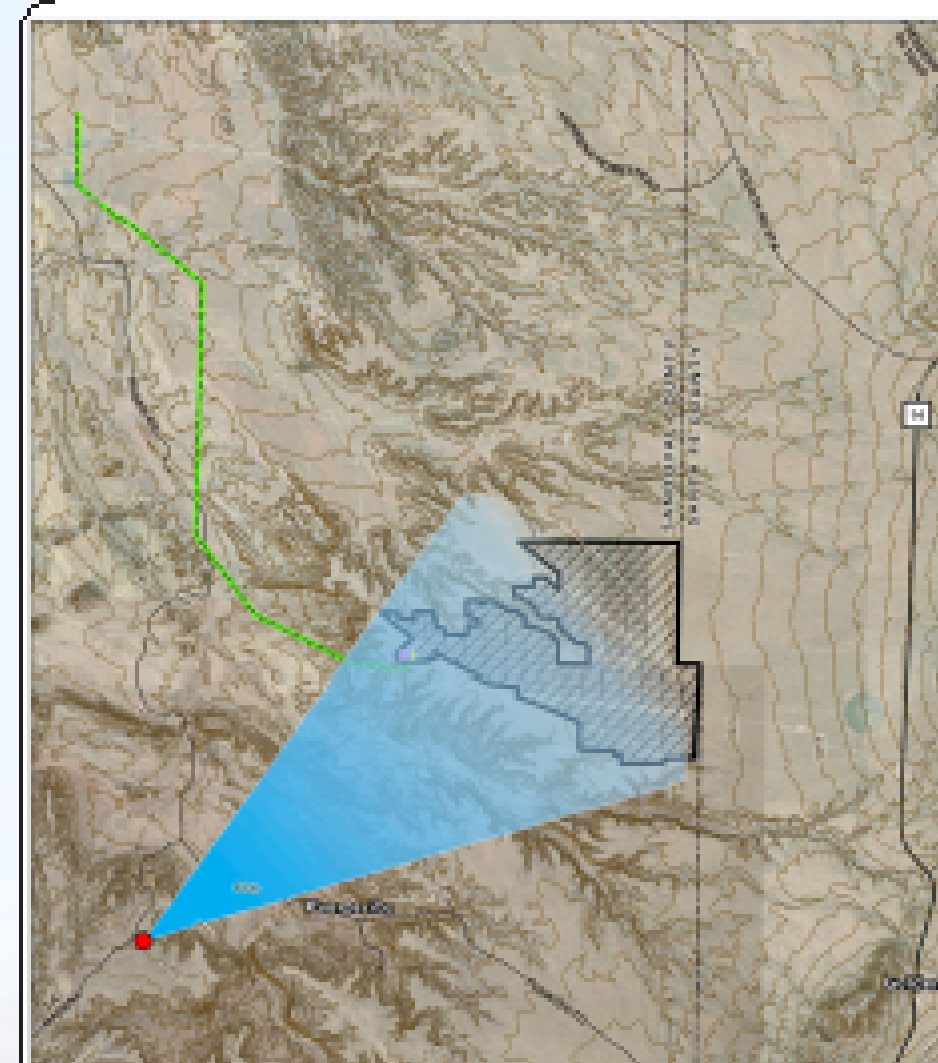
Cloud Cover: 20 %

Temperature (°F): 60° F

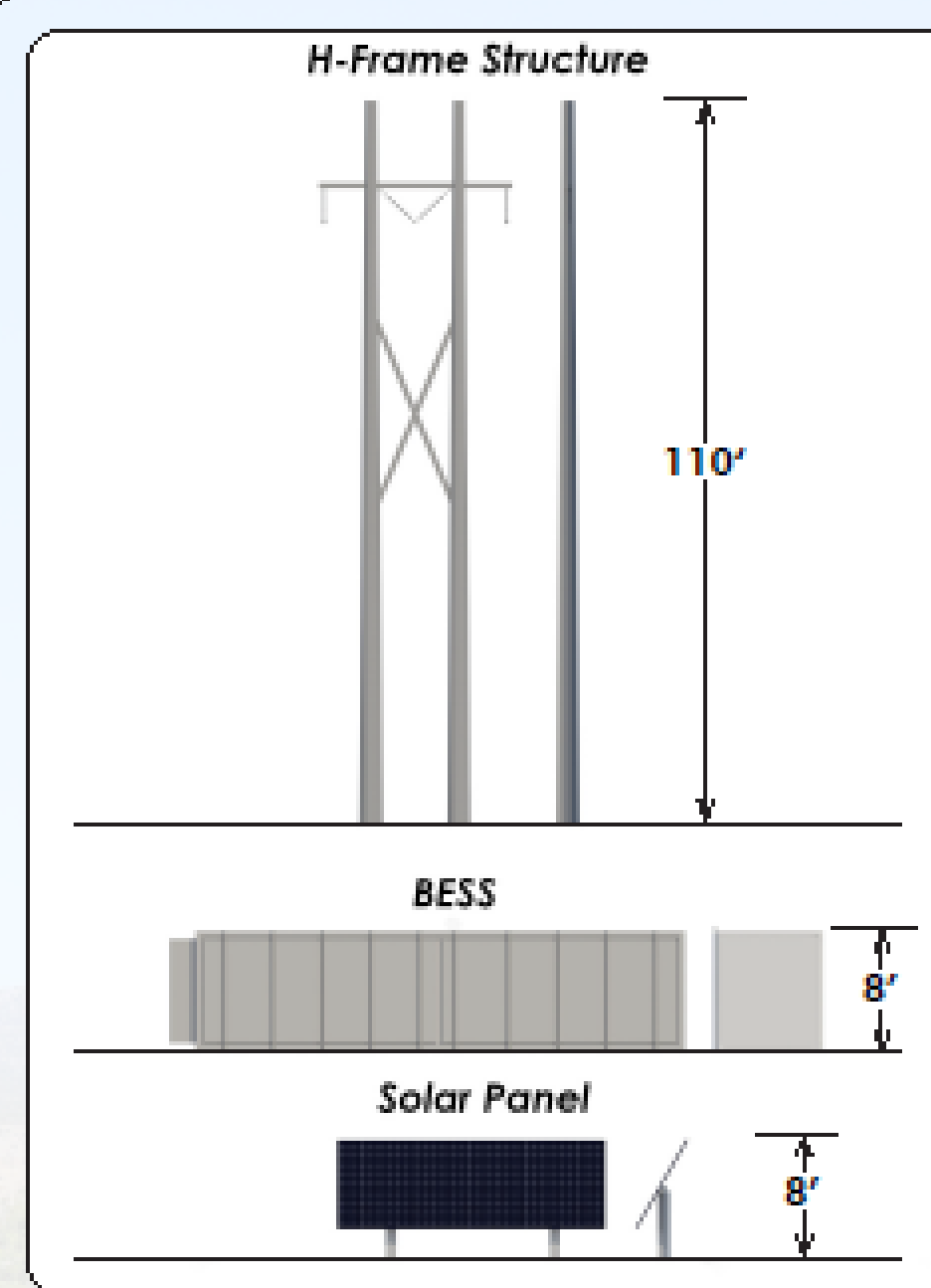
Panels are facing west to reflect afternoon conditions.

Simulation was prepared using information provided by client, "Site Plan Development Plan Diamond Tail" dated November 5, 2024. Locations, colors, and heights may vary based on final engineering and design.

Diamond Tail Solar Energy Project



Project Location



Structure Diagram



Extent of Single Frame Simulation

KOP 3 - Golden Open Space Los Duendes Trail

Base Photographic Documentation

Latitude, Longitude (degrees): 35.271298, -106.326458

Viewpoint Elevation (feet): 6,260

Camera Height (meters): 1.5

Camera Heading (degrees): 55

Camera Make & Model: Canon EOS 5D Mark IV

Camera Sensor Size (mm): 36 x 24 Full Frame

Lens Make & Model: AF-P Nikkor

Lens Focal Length (mm): 50

Image Size (pixels): 6720 x 4480

Approximate Distance to Nearest Solar Panels in Simulation: 3.3 miles

Approximate Distance to Nearest Gen-Tie in Simulation: 2.8 miles

Viewing Instructions: Printed at 100% the resulting simulation is 16 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed at arms length (24 inches). If viewed on a computer monitor, scale should be 100%.

SWCA
ENVIRONMENTAL CONSULTANTS



KOP 3: View from Golden Open Space Los Duendes Trail looking northeast - Existing Condition



KOP 3: View from Golden Open Space Los Duendes Trail looking northeast - Simulated Condition

Sun and Weather

Sunny Date: **11-12-24**
 Photo Time: **12:50 pm**

Visibility:

Air Quality: Good

Sun Azimuth (degrees): **179.44**

Sun Angle (degrees): **36.94**

Lighting Angle on Project: **Side**

Wind: **5 mph**

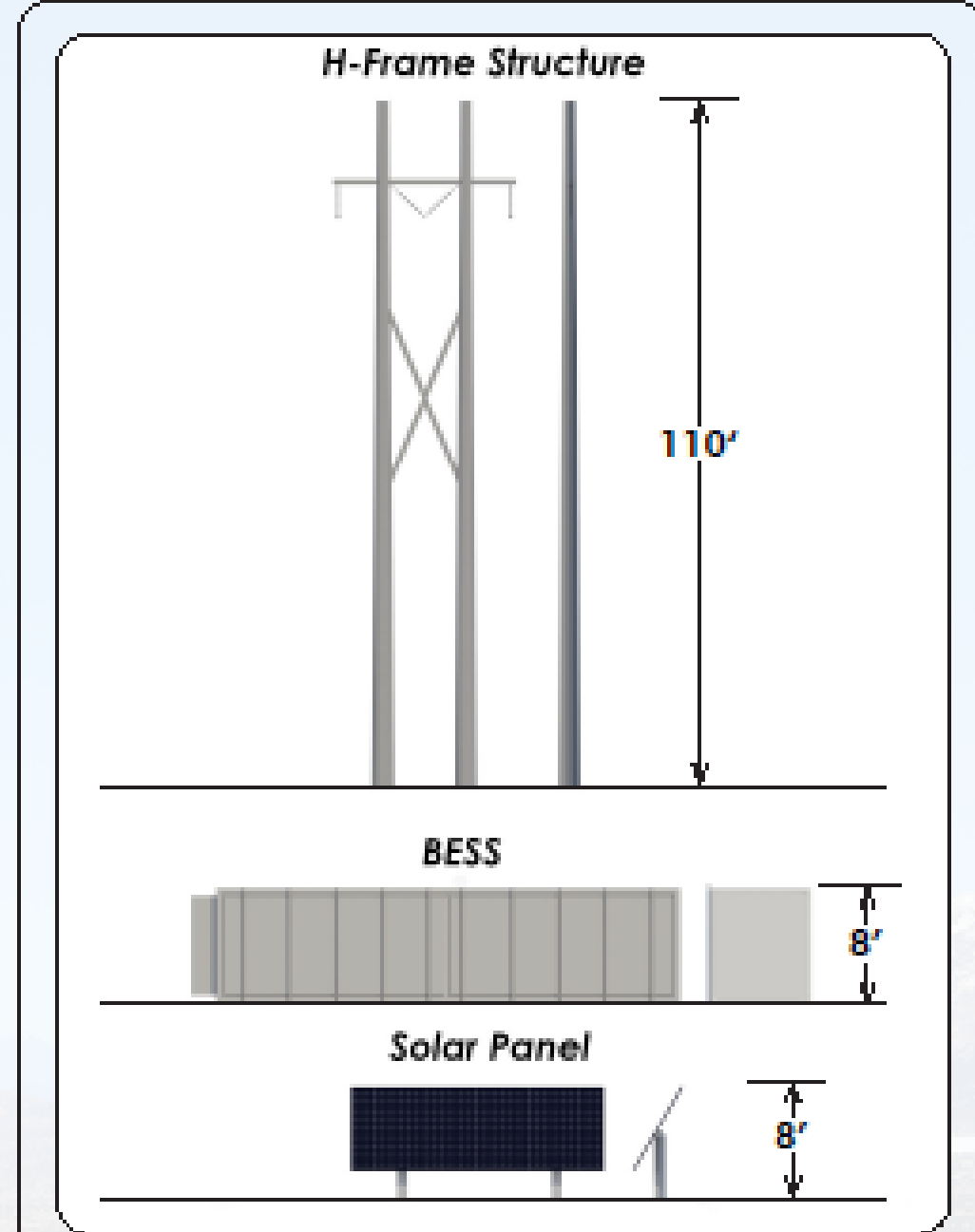
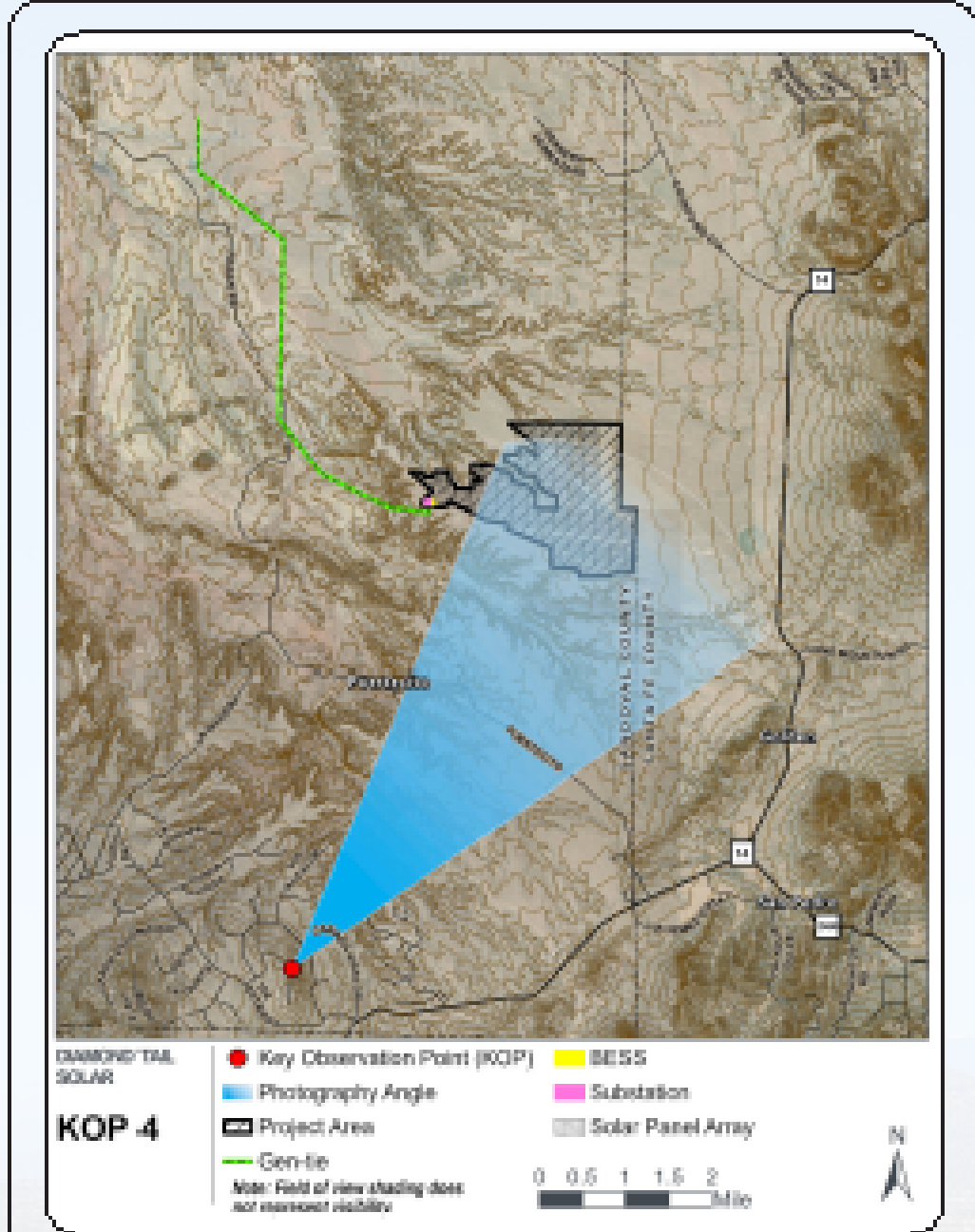
Cloud Cover: **20 %**

Temperature (°F): **60° F**

Panels are facing west to reflect afternoon conditions.

Simulation was prepared using information provided by client, "Site Plan Development Plan Diamond Tail" dated November 5, 2024. Locations, colors, and heights may vary based on final engineering and design.

Diamond Tail Solar Energy Project



KOP 4 - La Cantera

Base Photographic Documentation

Latitude, Longitude (degrees): 35.227302, -106.315428

Viewpoint Elevation (feet): 6,750

Camera Height (meters): 1.5

Camera Heading (degrees): 40

Camera Make & Model: Canon EOS 5D Mark IV

Camera Sensor Size (mm): 36 x 24 Full Frame

Lens Make & Model: AF-P Nikkor

Lens Focal Length (mm): 50

Image Size (pixels): 6720 x 4480

Approximate Distance to Nearest Solar Panels in Simulation: 5.6 miles

Viewing Instructions: Printed at 100% the resulting simulation is 16 inches wide by 10 inches high. At this size and focal length, the simulation should be viewed at arms length (24 inches). If viewed on a computer monitor, scale should be 100%.

SWCA
 ENVIRONMENTAL CONSULTANTS



KOP 4: View from La Cantera looking northeast - Existing Condition



KOP 4: View from La Cantera looking northeast - Simulated Condition

THANK YOU
Questions?





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