

# Proposed Bonanza Creek Solar Project



**Neighborhood Meeting**  
**December 19<sup>th</sup>, 2022**

Presented by Kat Kelly, Matt Gordon, Joshua Mayer, and Holly Keifer

5 Mwa Community Solar Project, PV Only  
Santa Fe County, New Mexico

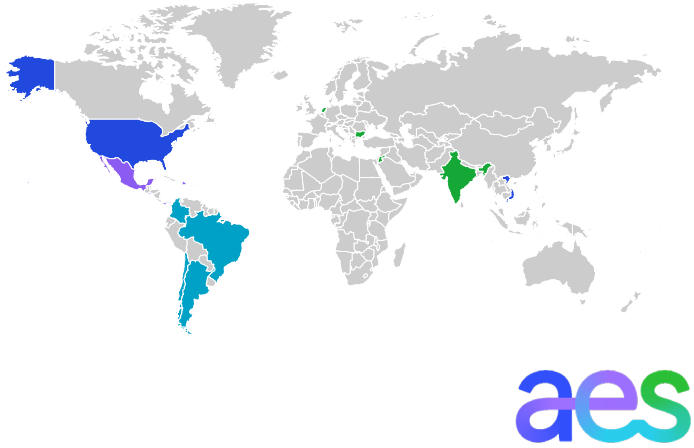




# Presentation Agenda

- AES, Project Team, and Stakeholders
- New Mexico Community Solar Program Overview
- What is Community Solar?
- Project Overview
  - Site Layout
  - Studies and Reports
  - Community Benefits
- Construction, Operations & Decommissioning
- Q & A

# The AES Corporation



31,459

Gross MW in operation\*

\* 20,183 proportional MW (gross MW multiplied by AES' equity ownership percentage).

\$11.1 billion

Total 2021 revenues

6,909 MW

Renewable generation under construction or with signed PPAs

\$34.6 billion

Total assets owned & managed

4 Continents

14 Countries

4 Market-oriented strategic business units

6 Utility companies

2.6 million

Customers served

8,450 people

Our global workforce

Recognized for our commitment to sustainability



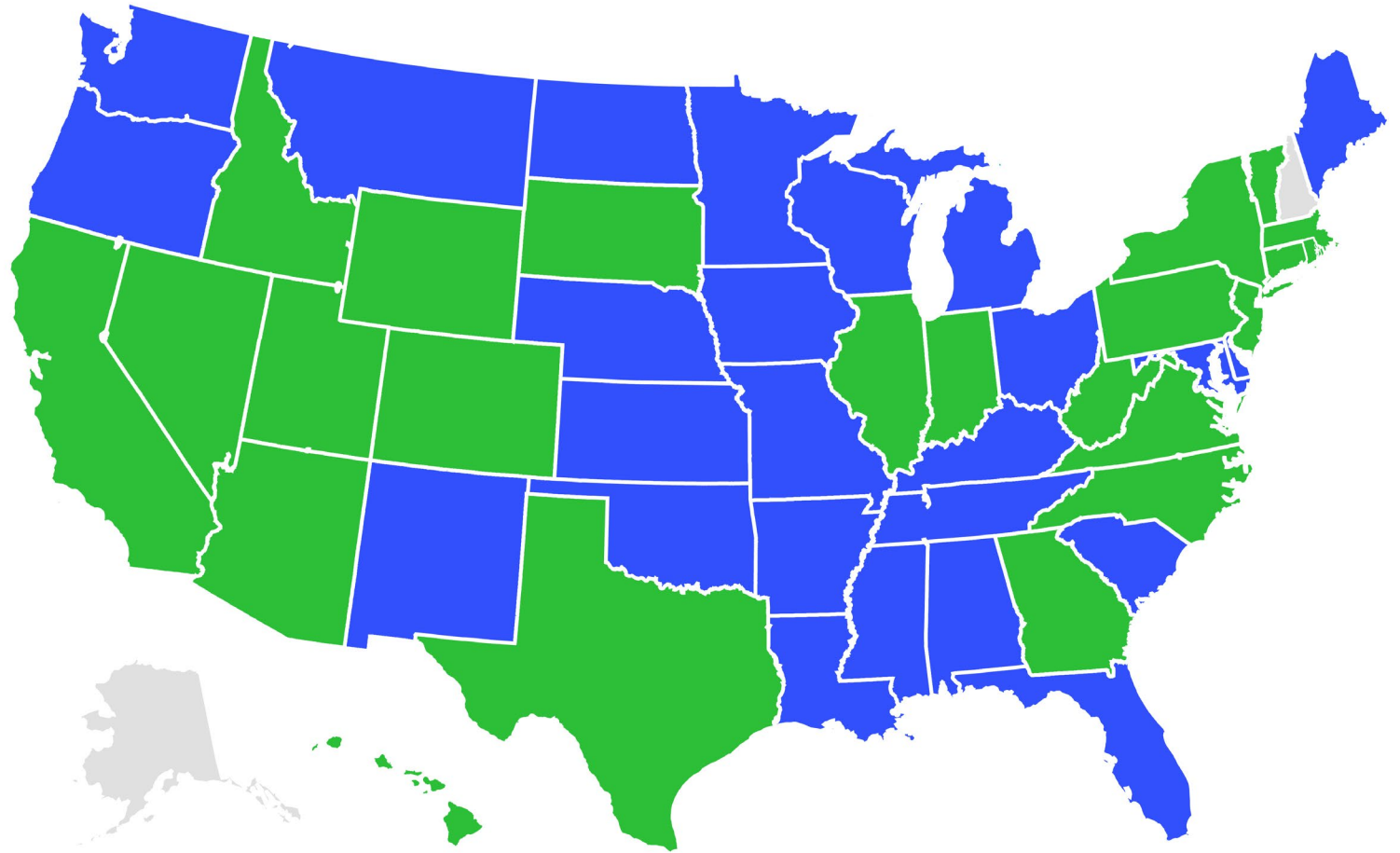
# Clean energy operating and development footprint

4.7 GW

Operating

50+ GW

Development pipeline



Operating

Developing

# Project Team and Stakeholders

<b>Santa Fe County</b>	Planning Staff Planning Commission Board of County Commissioners Community Members
<b>AES Clean Energy</b>	Kat Kelly, Lead Developer Matt Gordon, Permitting Lead Sneha Peri, Engineering Holly Keifer, Stakeholder Relations
<b>SWCA (Environmental Consultant)</b>	Kim Parker, Project Consultant
<b>Landowners</b>	Rancho Viejo Limited Partnership

# New Mexico Community Solar Program

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- Senate Bill 84
  - New Mexico Community Solar Act passed on 3/18/2021
  - 200 MWac Program split between three utilities – PNM, Xcel/SPS, and El Paso Electric
  - The program is aimed at providing savings for all NM residents, with a specific allocation towards low-income residents.
- InClimate - Program Administrator appointed by the PRC
  - InClimate will be scoring bids based on several non-price-based factors.
- RFP Bids Due 1/31/2023
- RFP Results Expected April 2023

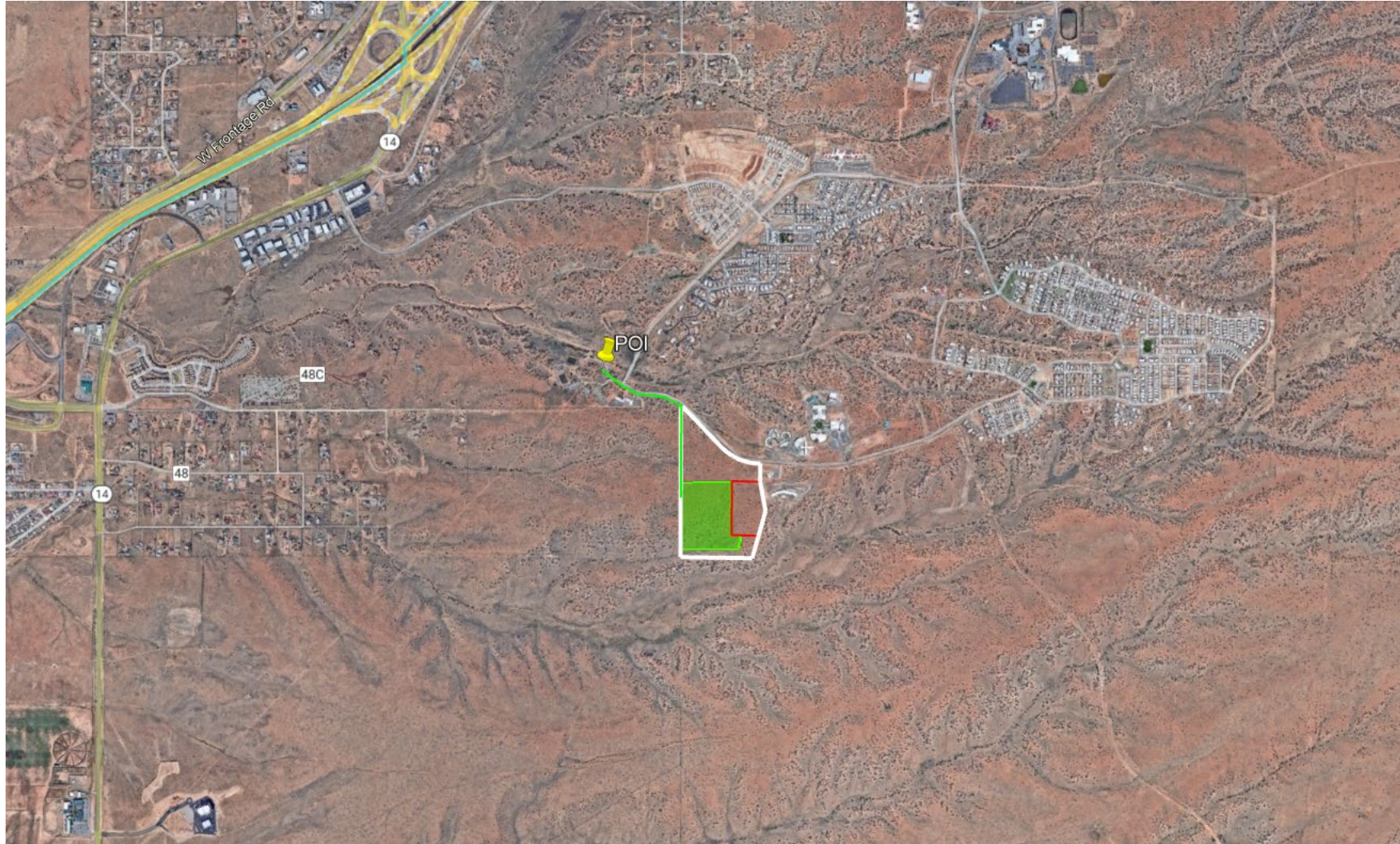
# How Community Solar Works

How does it work?



Source: Coalition for Community Solar Access. Photo provided by Nexamp

# Project Location – Vicinity Map



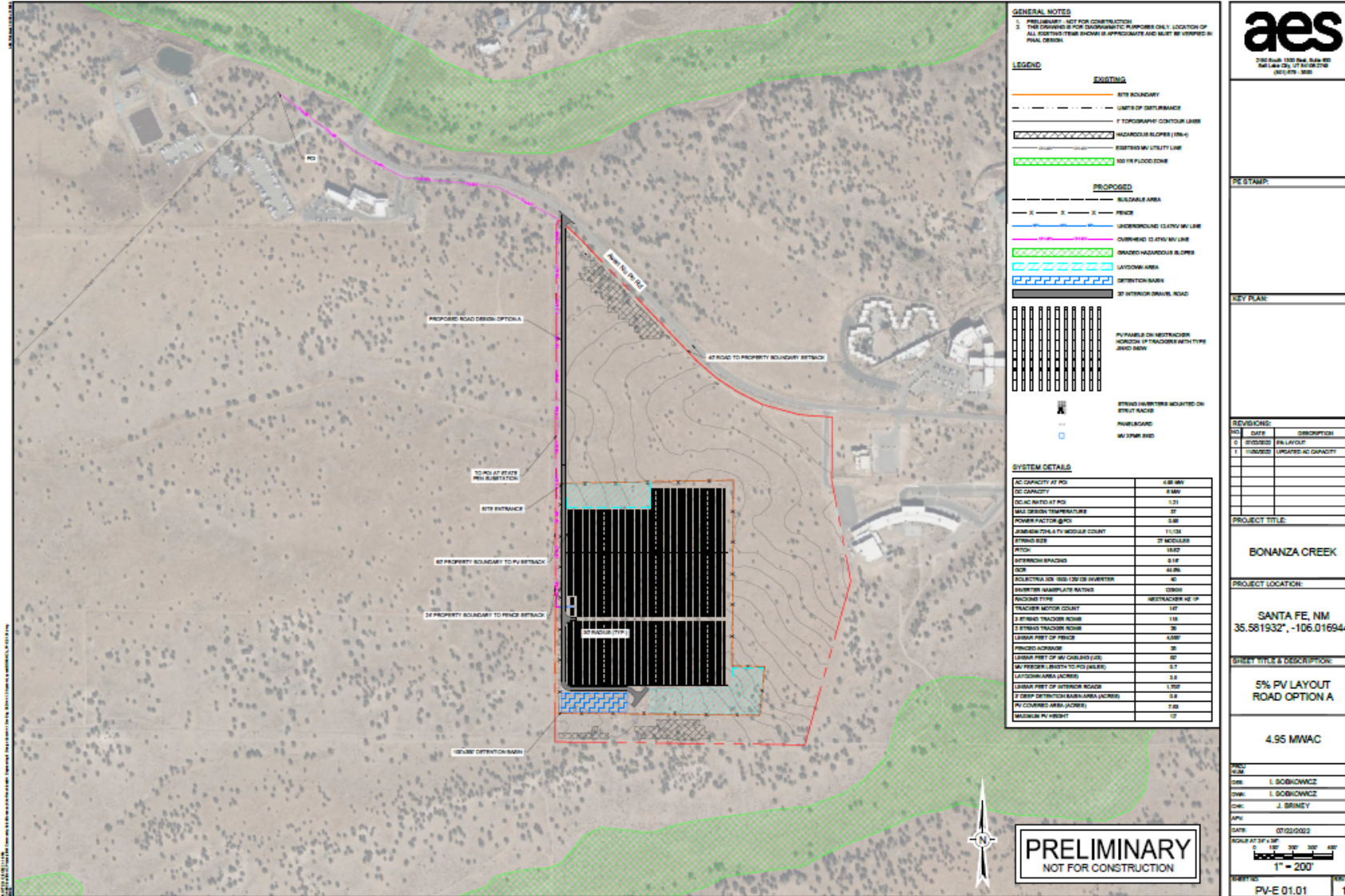


# Project Location – Vicinity Map 2

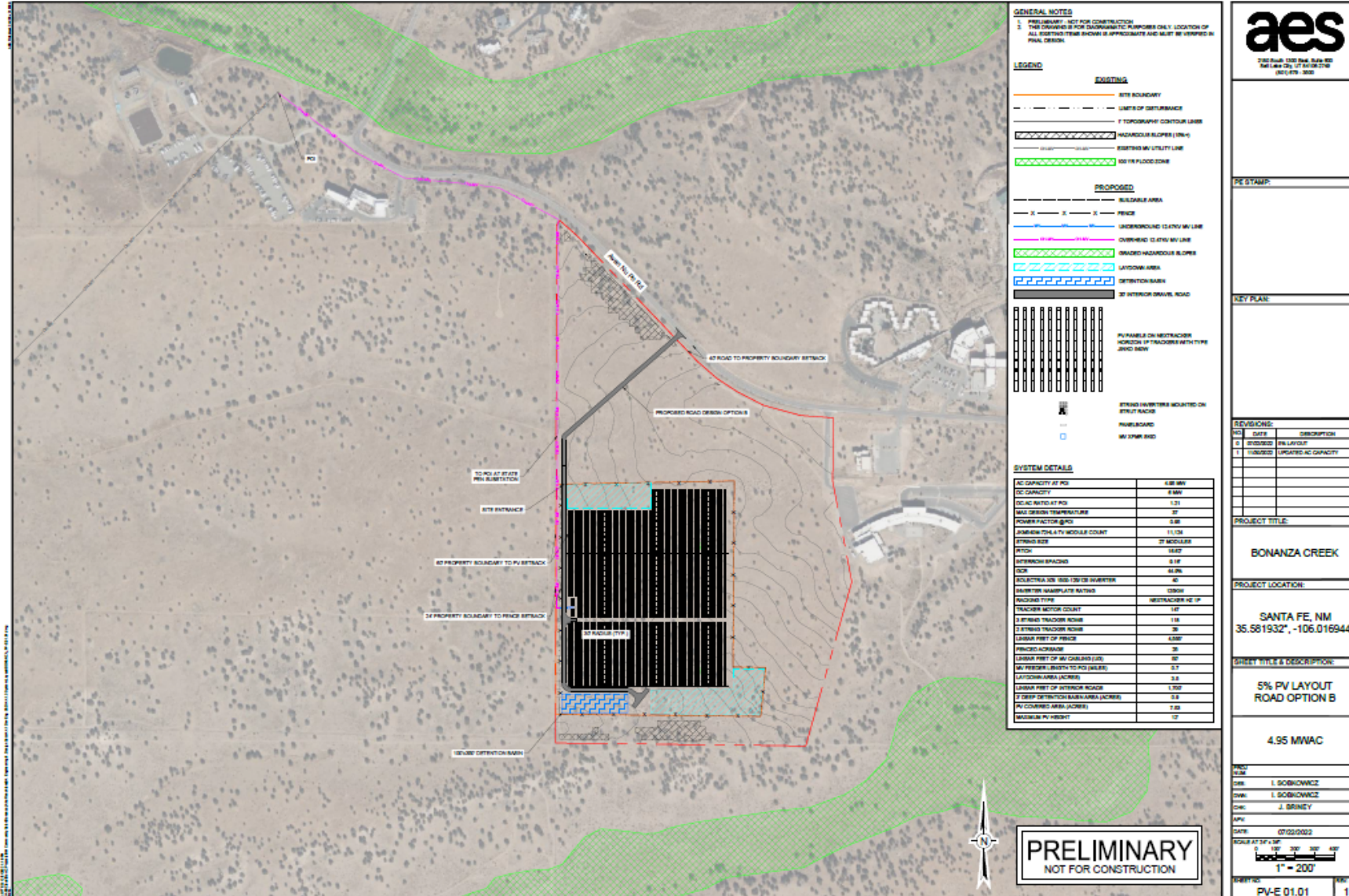




# Site Plan 1



# Site Plan 2



# Project Overview - Solar Photovoltaic Modules

## Structure Dimensions

- Approximately 15' max height
- 7' clearance at central rack and at flat tilt or stow mode.
- Approximately 30' aisles between modules
- Agricultural Fencing – 7-8' high

All solar panels used by AES pass the EPA's Toxic Characteristic Leaching Procedure (TCLP) test and are classified as non-hazardous and are not regulated as toxic materials.



# Environmental Diligence

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## Completed

- **Biological Survey Report:** March 2022
  - No Threatened or Endangered Species
- **Phase I Environmental Site Assessment:** October 2022
  - No Recognized Environmental Conditions (RECs) identified
- **Cultural Resources Study:** March 2022) / **Pedestrian Survey:** December 2022
  - No archaeological sites or historical properties identified
- **FAA Study:** April 2022
  - Notice criteria filing completed. No additional permitting required
- **Site Development Plan:** Refreshed November 2022
  - To be submitted to Santa Fe County for review/approval
- **Drainage Calculations:** October 2022
  - To support appropriate sizing of detention basin in Site Development Plan

## In Progress

- Site Threshold Analysis

# Construction, Operations & Decommissioning

**Construction Start / timeline** – Anticipated Fall of 2024 , 6-8 months

**Ground Treatment / Natural Vegetation** - Solar racking system does not require leveling the land or installing complex foundations. Installation method - either pile or screw driven poles, depending on soil compactness.

Revegetation - establishment of native vegetation/certified weed free seed mix

**Dust Mitigation** - Water from trucked-in resources for dust mitigation. Project shall comply with all applicable County, State and Federal standards and regulations

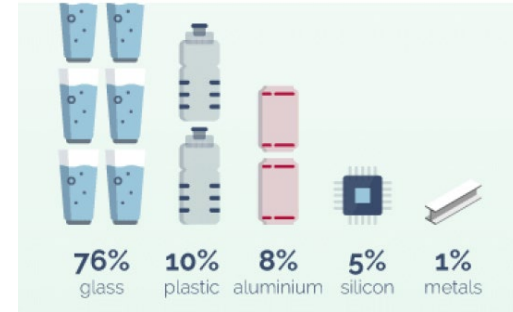
**Traffic** - Construction period - 1-10 max deliveries per day - construction crew traffic

- During operation - Remote operated with limited site traffic - Est. >1 trip per month

**Decommissioning and Restoration** - End of project useful life

- Decommissioning & Restoration Plan & Estimate
  - Removal of all installed equipment
  - Dismantle, reuse where possible, recycle
  - Site restoration – return to pre-construction condition
- Decommissioning and restoration guaranty

# Project Overview - Recycling



## PV Modules

- 90% of module material by weight is glass and aluminum.<sup>(1)</sup>
- 95% of the materials in PV modules are recyclable with 2022 technologies.<sup>(1)</sup>
- Emerging market, with advancements in recycling technology expected.
- AES is in discussions with Equitable Solar Solutions for panel reuse / recycling upon decommissioning of all projects

1 - <https://www.energy.gov/sites/default/files/2022-03/Solar-Energy-Technologies-Office-PV-End-of-Life-Action-Plan.pdf>



# Turquoise Trail Community Solar

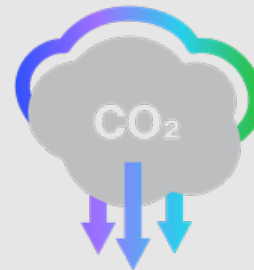
## Benefits: Environmental



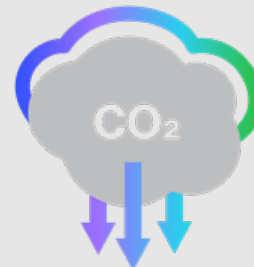
Assist Santa Fe County in reaching its Net-Zero greenhouse gas emissions goal by 2050



Renewable power for equivalent of approximately **1,500** homes' annual electricity use



Reduces approximately **24,000** tons of carbon dioxide emissions annually

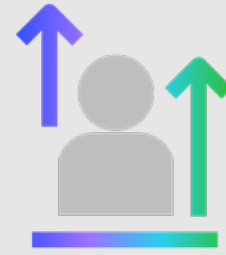


Reduced carbon dioxide emissions are equivalent to **2,000,000** gallons of gas

## Turquoise Trail Community Solar

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# Benefits: Community



**~30 construction jobs**

### **Contributions to local services**

(accommodation, restaurants, professional services)

Local Socio-economic partnerships

Local and statewide community partnerships

- Donated subscriptions, curriculum, and site visits to local schools.
- Investment in programs that serve local tribes, groups, and workforce development.



Subscribers will save on their energy bills.

# Workforce Development in New Mexico

- AES has partnered with Solar Energy International (SEI), a leading solar training educational non-profit organization
- SEI provides workforce development services in New Mexico
- 15 AES-funded scholarships for New Mexico residents
- Includes:
  - enrollment in SEI's North America Board of Certified Energy Practitioners (NABCEP) PV Associates online- self-paced training package
  - PVOL101 and PVOL203 classes
  - NABCEP PV Associates test
- AES and Santa Fe Community College are in conversations to partner on a workforce development training program for solar installation and low-voltage electrical training, with the possibility of a spring semester launch of the program.
- AES and SFCC are committed to supporting the new workforce that will be created through these renewable energy projects and programs.



SOLAR ENERGY INTERNATIONAL  
Educate. Engage. Empower.



New Mexico  
Workforce Connection  
A Proud Partner of the American Job Center Network



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<https://forms.office.com/r/Ywn434vGdJ>

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To create a better future,  
we need to accelerate a  
**100% carbon-free**  
energy grid

For a truly 100% carbon-free grid, load  
and carbon-free generation must be  
matched on an hourly basis

# Questions

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Thank you

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Webpage pending