AVANTUS®

Proposed Ore Town Solar and Storage Project

San Manuel, Arizona



October 2024

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About Us

Project Representatives:

Avantus (310SM 8me LLC) Representatives:

Kevin Johnson, Development Lead

Jennifer Jackson, Permitting Lead

SWCA Representatives:

Meaghan Austin, Permitting Project Manager & Natural Resources Lead

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Founded in 2009, Avantus has developed over 2 GW of operating solar projects, including multiple record-breaking endeavors

SHAPING THE FUTURE OF ENERGY

2011



Began developing one of the nation's largest solar PV clusters (800 MW)

2016



Brought online one of the first solar projects to beat fossil fuel prices

2019



Developed one of the largest solar projects on tribal land.

2023



Developed and sold nation's largest permitted solar and storage project (2GW combined PV+S)

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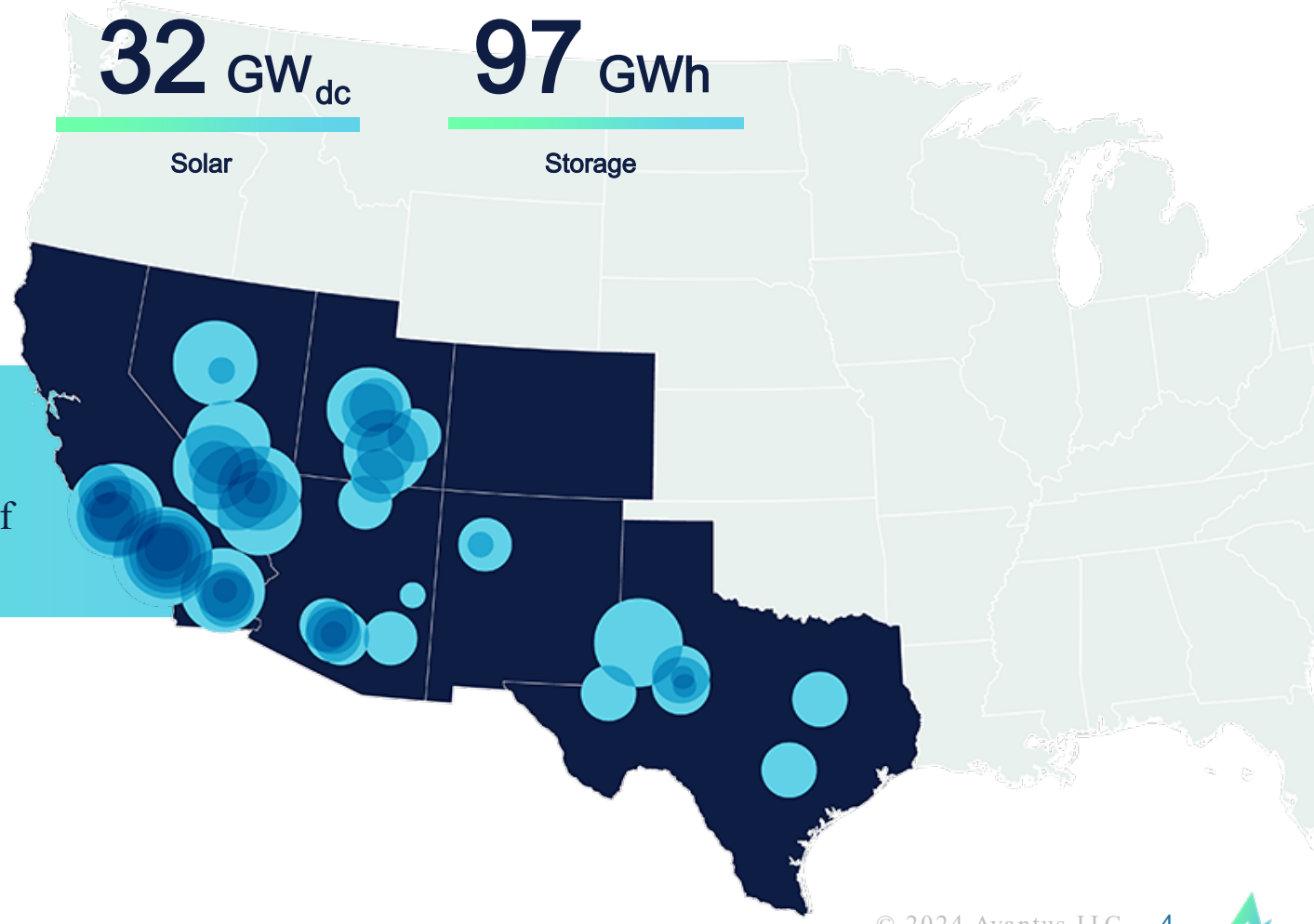
One of the largest development portfolios of solar and energy storage across the Western United States and Texas

80 +
Projects [1]

48 GW
System Capacity

32 GW_{dc}
Solar

97 GWh
Storage

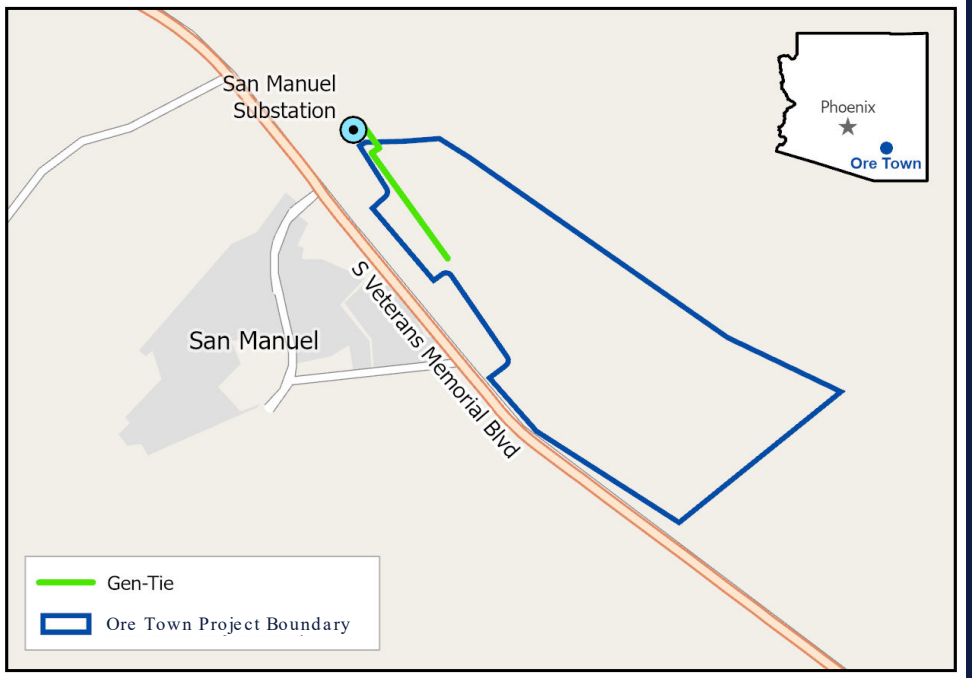


Our expanding portfolio of smart power plants will bring low-cost, reliable, and zero-emission energy to tens of millions of people across the Western United States.

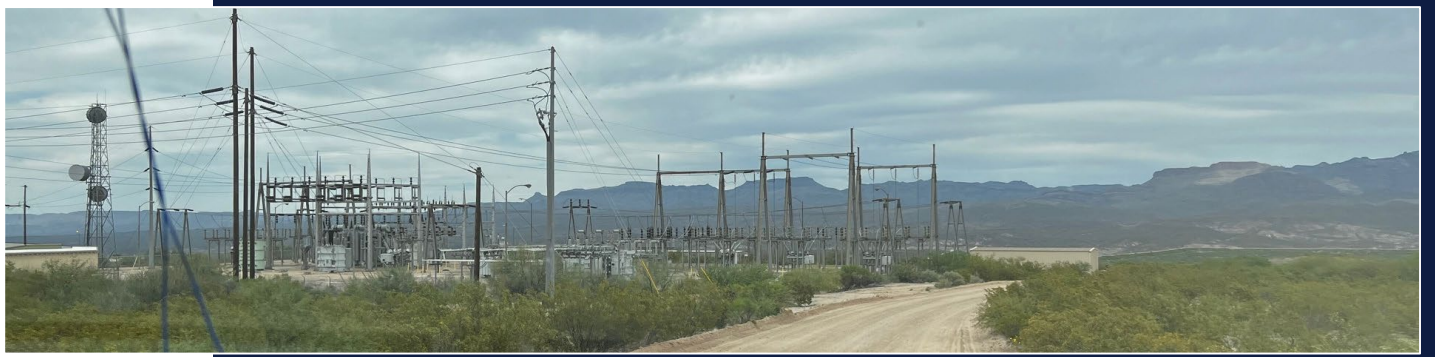
1. Utility-scale projects in development with 2024-2029 FNTP

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Project Overview



- **Location:** San Manuel, Arizona in District 4 of Pinal County
- **Capacity:** 145 MW PV + up to 145 MW BESS
- **Land Ownership:**
  - ~1,200 acres of previously disturbed, private land owned by BHP Copper, Inc.
  - Portion of the proposed Project area was previously used for ore processing (not mined, nor on the tailings)
  - The proposed Project area is behind the existing BHP site security fence
- **Transmission:** less than (1)-mile long "gen-tie" line to interconnect at the existing San Manuel Substation, pictured below



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Proposed Major Comprehensive Plan Amendment (MCPA)

MCPA process is the first step in the County permitting process and would amend the land use designation :

- **Current :** "Moderate Low Density Residential"
- **Proposed :** "Green Energy Production"

MCPA Process Key Dates/Schedule:

- ✓ Open House, April 2024
- ✓ MCPA Application Deadline, May 31, 2024
- ✓ Work Session with Planning and Zoning Commission, July 18, 2024
- ✓ Work Session with Board of Supervisors, August 14, 2024
- ✓ Citizen Advisory Committee Meeting/Review, September 5, 2024 — Recommended approval
- ✓ Public Hearing with Planning and Zoning Commission, September 25, 2024 — Recommended approval
- ❑ Public Hearing with Board of Supervisors for approval, October 30, 2024

Zone Change is a future process:

If the MCPA is approved, additional permitting and development activities would occur following the adoption of the Comprehensive Plan Amendment. The next step will be to request a rezone of the Project area from "General Rural" to "Industrial".

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Project site is well -suited for solar development

SITE SELECTION

- ✓ Private land
- ✓ Previously disturbed
- ✓ Near existing substation and transmission lines
- ✓ Landowner seeking to repurpose former ore processing facility with passive use
- ✓ Low topographic variability to reduce the need for extensive grading

STUDY RESULTS

- ✓ No Threatened & Endangered Species, wildlife movement corridors, sensitive or unique habitat
- ✓ No perennial surface waters, wetlands or floodplain hazards
- ✓ Primary drainages/washes to be avoided by project design
- ✓ Not sited on the mine tailings; tailings provide buffer between project and San Pedro river (~3 miles away)
- ✓ No riparian communities within project area
- ✓ No bat roost sites
- ✓ No western burrowing owl burrows or suitable nesting or perching habitat for golden eagles
- ✓ No recognized environmental conditions (RECs)

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Photo Simulation: From San Manuel Community Center

Looking northeast towards the proposed project area



Before



After

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Color Overlay: From San Manuel Community Center



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Photo Simulation: From Avenue G

Looking northeast towards the proposed project area



Before



After

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Color Overlay: From Avenue G



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Photo Simulation: From intersection of S McNab and S Veterans Memorial Blvd

Looking southeast towards the proposed project area



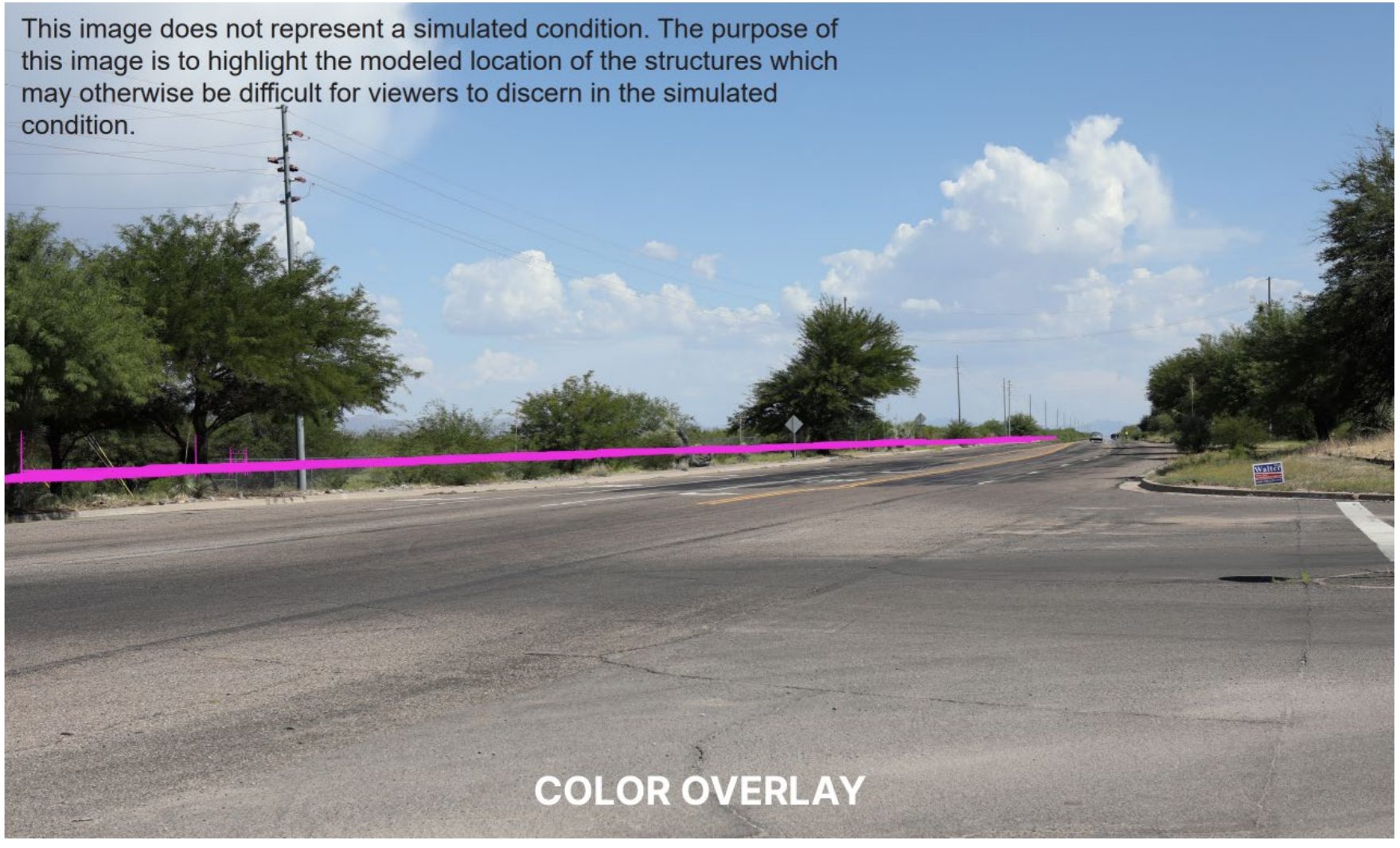
Before



After

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Color Overlay: From intersection of S McNab and S Veterans Memorial Blvd



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Photo Simulation: From S Veterans Memorial Blvd, south of San Manuel

Looking northeast towards the proposed project area



Before



After

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Avantus strives to actively contribute to the communities we serve

Being a good neighbor means we will work to know San Manuel's values and needs so we can partner in a meaningful way

EDUCATIONAL SCHOLARSHIPS

Contributed to Blackwell Consolidated Independent School District (CISD) Educational Fund in Nolan County, Texas to provide high school graduates educational grants to attend college or vocational school.



VETERAN CELEBRATIONS

Partnered with local landowners to sponsor annual "Evening with a Hero" celebration hosted by Fort Chadbourne in West Texas to recognize veterans and active military in the community.



STEM PROGRAMS

Sponsored robotics team at a high school in Imperial County, California to participate in the FIRST Robotics Competition. FIRST is dedicated to inspiring young people to be science and technology leaders.



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Project Benefits

Once operational, the Project will :

- Provide up to $70mm in state & local tax revenues to fund essential public services over the 35-year operational life of the Project
  - Long-term, stable source of tax revenue for the County and local districts, including Mammoth San-Manuel Unified School District and the fire district
- Enhance the resiliency of the electric grid and provide clean electricity to meet Arizona's growing energy demand
- Produce little to no daily traffic once constructed
- Create short and long-term job opportunities, and local economic activity during construction
- Require substantially less water to operate than commercial or residential developments of similar scale

TAX AUTHORITY
Pinal County
Pinal County
Mammoth USD #008
Pinal County Jr College
Pinal County Jr College
Fire Dist Assistance Tax
Central AZ Water Conservation
Pinal County Library
Pinal County Flood
Pima Joint Tech Education Dist

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Thank you



Appendix

Current Project Development and Construction Timeline

Milestones		Completed / Expected Completion
Execute Site Control Agreement		✓
Initiate Permitting		✓
Interconnection Request Submitted		✓
Interconnection System Impact Study		Q1 2025
PAD & Zone Change		Q1 – Q2 2025
Permitting Complete		Q3 2025
Interconnection Facilities Study		Q4 2025
Procure Major Equipment		Q1 – Q4 2025
Large Generator Interconnection Agreement (LGIA)	Executed	Q2 2026
Start of construction		Q2 2026
Commercial operation date (COD)		Q2 2027

Timeline subject to change.

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Due Diligence Studies

We have conducted the following assessments, investigations and surveys

- Biological and Water Resources Assessment including wildlife, vegetation and water resources (May 2024)
- Cultural Resources Assessments (May and June 2024)
- Phase I Environmental Site Assessment (ESA) regarding potential presence of hazardous substances (May 2024)
- Drainage Report (Aug 2024)
- Traffic Impact Assessment (Aug 2024)
- Photo Simulations (Aug and Sep 2024)

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We go above & beyond to ensure safety

Our BESS facilities meet and surpass national safety requirements

RIGOROUS COMPLIANCE

Our projects adhere to strict fire safety requirements and codes:

- **National Standards:**
  - NFPA 855-2024 (National Fire Protection Association)
- **Comprehensive Testing:**
  - All battery systems undergo thorough safety evaluations and Underwriter Laboratories (UL) certification

EMERGENCY PREPAREDNESS

Avantus takes a proactive approach to safety:

- **Emergency Response Plans:** Tailored for both construction and operational stages
- **First Responder Training:** Specialized programs for firefighters and emergency personnel
- **Ongoing Maintenance:** Updates to Emergency Response Plans throughout the project lifecycle

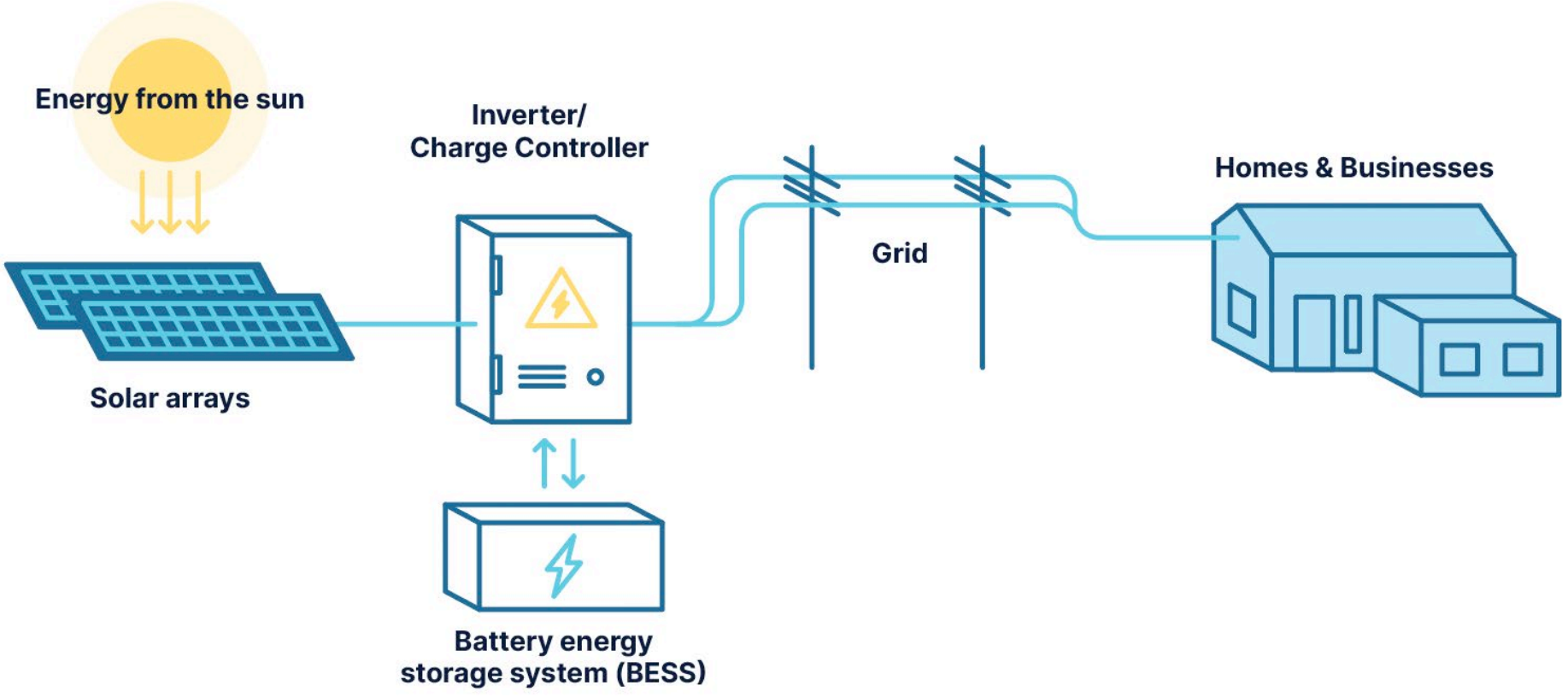
COMMITMENT TO TRANSPARENCY

Avantus prioritizes open communication with the community:

- Updates on project progress
- Opportunities for public feedback and engagement
- Dedication to addressing concerns promptly

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Solar PV panels convert the Sun's energy into electricity, which the transmission system transports to homes and businesses

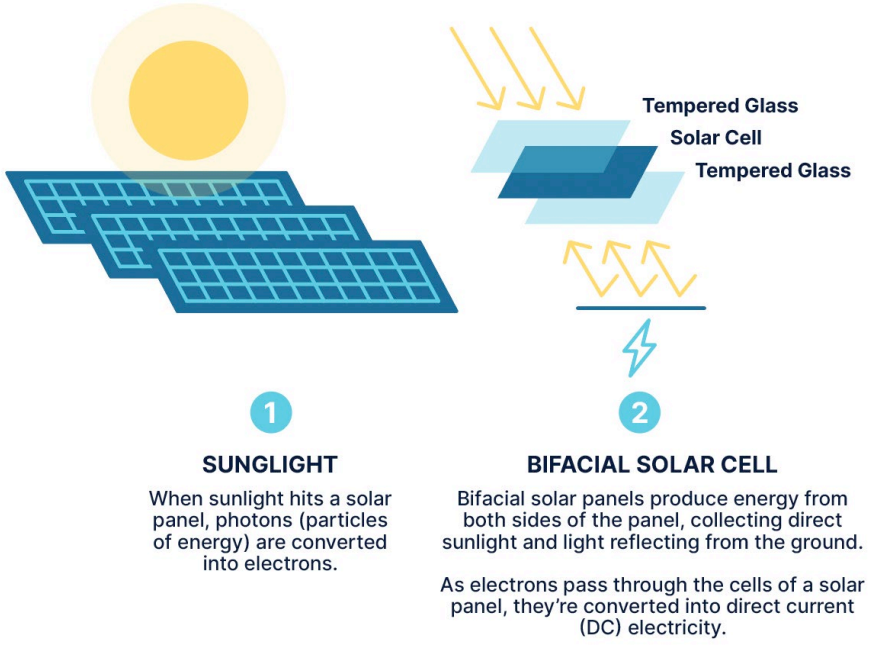


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Avantus deploys state-of-the-art equipment from tier suppliers

PV MODULES

- Avantus will select PV panels or modules with proven reliability to ensure the facility meets production and reliability expectations
- Modules may be either mono-facial or bi-facial
- Modules may use either thin-film, polycrystalline or monocrystalline technologies





MODULE CONFIGURATION

- Individual PV panels will be installed on single-axis tracker mount systems using galvanized steel or aluminum
- The panels will rotate to follow the sun over the course of the day
- Panels are expected to remain between 6 and 8 feet high

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Representative Solar Farm Components



Solar Panels



Piles



Racking



Inverter Box





Operations

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Construction & Operations







What to Expect During Construction

- Some large equipment during construction
- Water will be used to mitigate dust around the site
- City and County roads will be properly maintained and repaired as needed

What to Expect During Operations

- Minimal traffic on roads
- Noise will be minimal; the low hum from inverters should not be audible by residents
- Panels will be ~6-10 feet high, comparable to a typical privacy fence
- Multiple studies around glint and glare have shown that properly designed solar plants are comparable to a body of water and present no significant risk to neighbors, drivers or pilots
- Solar plants are built to ensure durability and safe performance in extreme temperatures, high winds, heavy rains, hailstorms, snow and ice build-up

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Avantus smart power plants deliver clean, reliable energy, day and night

Integrates clean energy production and battery storage into one seamless, intelligent system

BENEFITS

- Reliable power at any time of day
- Deliver PV energy when it's needed, rather than on the sun's schedule e.g., deliver PV energy after sunset (or before sunrise)

MAJOR EQUIPMENT

- Lithium-ion batteries within outdoor-rated containers
- Inverters and medium voltage transformers similar to PV



Example Lithium -Ion Battery Racks



Example BESS + PV Project Site

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