



Solar energy is the gateway to our future for generating renewable energy. Every second, the sun produces enough energy to sustain Earth's needs for 500,000 years.



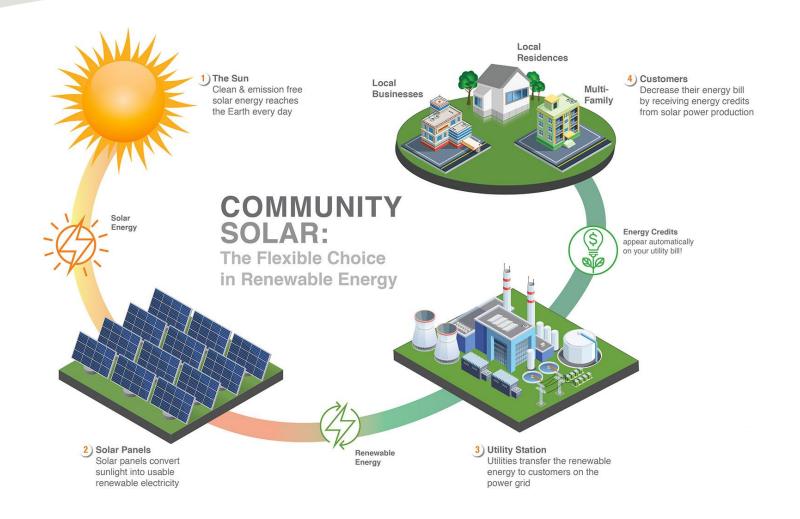
Renewable Energy Through Responsible Development

The Summit Ridge team is comprised of renewable energy veterans who have developed hundreds of megawatts of solar projects across the U.S.





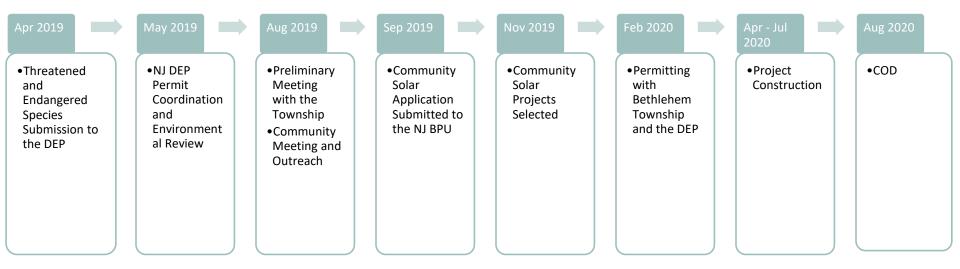
Community Solar Projects





NJ Community Solar Program

- 75 MW program for 3 years; 20.62 MW in Jersey Central Power & Light
- 40% low to moderate income offtake
- Criteria Siting, Community and Environmental Justice Engagement, Subscriber Type,
 Geographic Limits





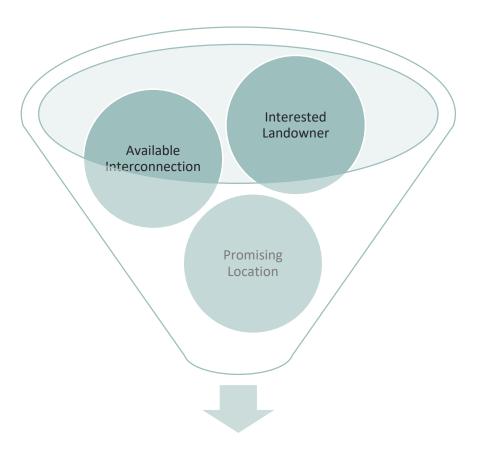
Benefits of Community Solar Projects

- Provides 400 local homes with low cost clean energy
- Harmonious with rural/agricultural character and existing infrastructure
- Land can be readily reused for agricultural purposes in the future
- Protection against soil erosion and sedimentation
- Quiet
- Low traffic impacts
- Creates local jobs





Step 1: Site Selection



Potential Site Location



Step 2: Potential Site Location

Site selection takes into account many factors including:

- Community character
- Zoning/local ordinances
- ❖ Site visibility/visual impact
- Glare/reflection
- Environmental constraints
 - Soil depth and character
 - Wetlands/waterbodies
 - Endangered/protected species
 - Flood plains
 - ❖ Archaeological resources





Step 3: Environmental Constraints



Methods Include:

- Site Suitability Assessment
- Constraints Mapping
- Site Survey & Topographic Mapping
- Phase I Environmental Site Assessment
- Consultations with County, State and Federal Agencies
- Glare Analyses







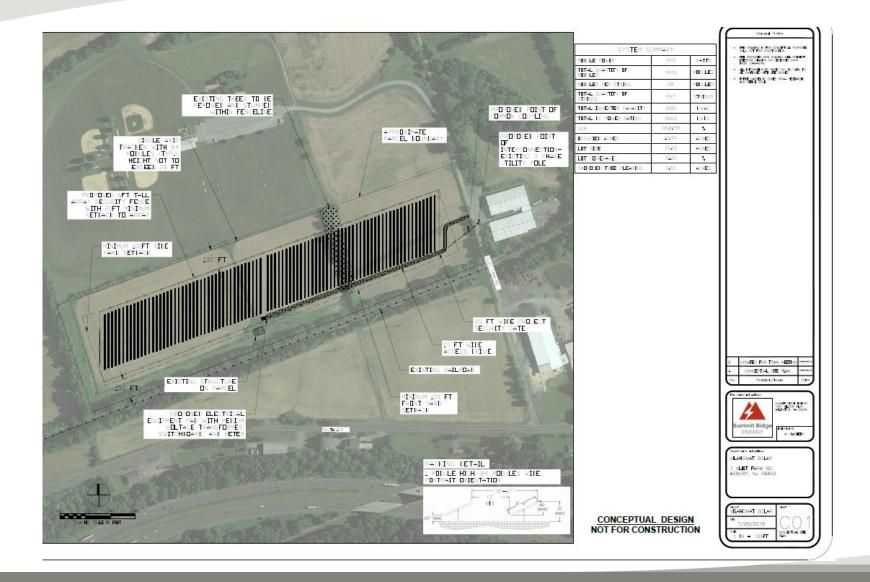








Vliet Farm Rd Proposed Solar Project (2 MWac)





Panels and Racking

Individual panels are typically 3.5 feet by 6.5 feet and joined together on single-axis tracking systems to provide optimal energy output.

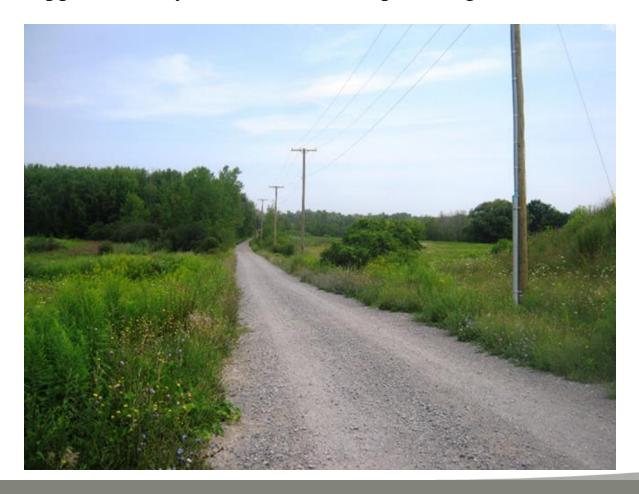






Access and Utility Poles

An approximately 15 foot wide compacted, gravel access road.





Responsible Solar Design

Compliance with Regulations

Land Value

Community Character Public Convenience Drainage and Utilities

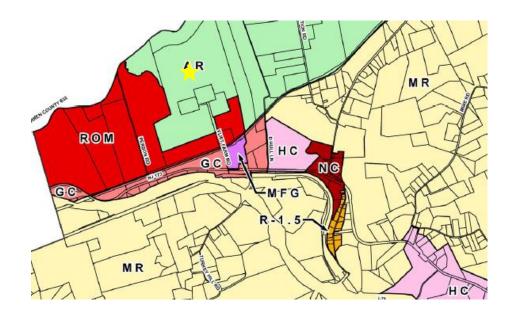
lealth and Safety





Zoning Regulations

- According to the Bethlehem Township zoning map, this parcel zoned Research, Office, Manufacturing.
- Conditional Use Permit and Highlands Exemption will be required









National Renewable Energy Laboratory: "the impacts on property values caused by solar farms are anticipated to be negligible"



Community Character: Landscaping and Design

- Clean, renewable solar energy (enough to power ~400 local homes)
- Low profile panels are typically lower than mature corn stalks
- Simple pile-driven post/rack design does not require cement
- Security fencing with gate
- Removable gravel access road
- String Inverters to reduce cement pads
- Planting of restorative, local vegetation is beneficial to the soils
- Pollinator or nutrient rich plant blends can be used to increase future farm production
- Utilizing local labor for construction and operations





Community Character

- Flat farmland
- Vliet Farm Rd and other industrial facilities to the east
- Railroad to the south
- Natural tree buffer provides screening to adjacent properties





Noise

- Solar panels themselves are quiet no central inverter
- *~35 decibels at the fence line = soft whisper
- *As reference:
 - Average ambient noise in residential areas is 45 decibels.
 - Average ambient noise in locations adjacent to highways is 80 decibels.





Drainage and Soil Erosion

- Year-round vegetation cover provides protection against soil erosion and flooding
- The Stormwater Pollution Prevention Plan (SWPPP) includes controls to account for 1-year, 10-year, and 100-year rainfall events
- Use of local perennial plants condition the soil to readily accept water from rainfall events - special pollinator blends will be used to create habitats

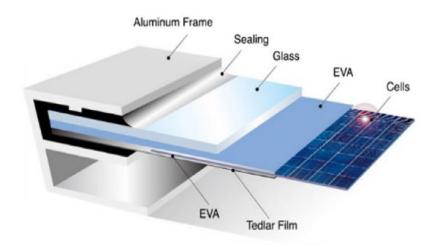


Year-round vegetative cover stabilizes the soil



Health and Safety - Solar Panels

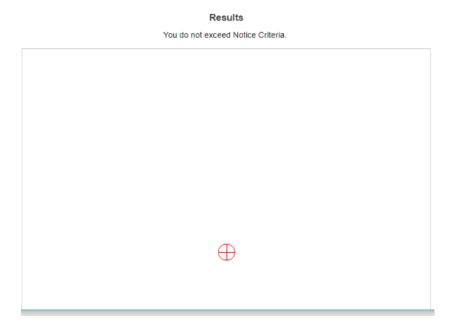
- PV panels are made of glass, glue, aluminum, copper, and wiring.
- PV cells are protected from air and water between two layers of plastic and tempered glass. Lead-free soldering is now used.
- The same tempered glass and plastic have been used for decades in car windshields.
- Materials will be recycled at the end of their life span
- Perimeter fencing and proper site security will be installed.





FAA Screening

- Solar panels are smooth glass surface material with an anti-reflection coating (ARC).
- ❖ FAA Screening showed that notice criteria was not exceeded, and therefore there are no nearby navigational systems affected by the project.





Natural Resource Protection

- Consultation with the United States Fish and Wildlife Service and New Jersey DEP – no anticipated impacts
- ❖ No significant impacts on T&E species land is cleared
- No wetlands on site





How can I get involved?

- Sign up to receive electricity from our community solar project
- Write a letter of support for this project
- Post a sign-up sheet for your community group
- Questions/comments



