

Clearview Solar Project

Graham Local Schools



OPEN ROAD
RENEWABLES

March 15, 2021

Organization Structure and History

- Open Road develops utility-scale solar energy projects in the Eastern US with extensive experience in Ohio
- Open Road focuses on larger solar projects, such as the 200-Megawatt (“MW”) Hillcrest Solar Project now under construction in Brown County, OH and the 150-MW Willowbrook Solar Project that could begin construction as early as 4th quarter 2021 in Highland County, OH
- Open Road’s partner is MAP RE/ES, one of the most experienced energy investors in the U.S. with close to 16,000 MW of operating wind and solar energy projects
- Clearview Solar, a subsidiary of Open Road and MAP, is the “Applicant” in the Ohio Power Siting Board permitting process



Clearview Solar Team



Doug Herling
VP Development – Ohio Lead



David Savage
Founder & VP – Permitting Lead



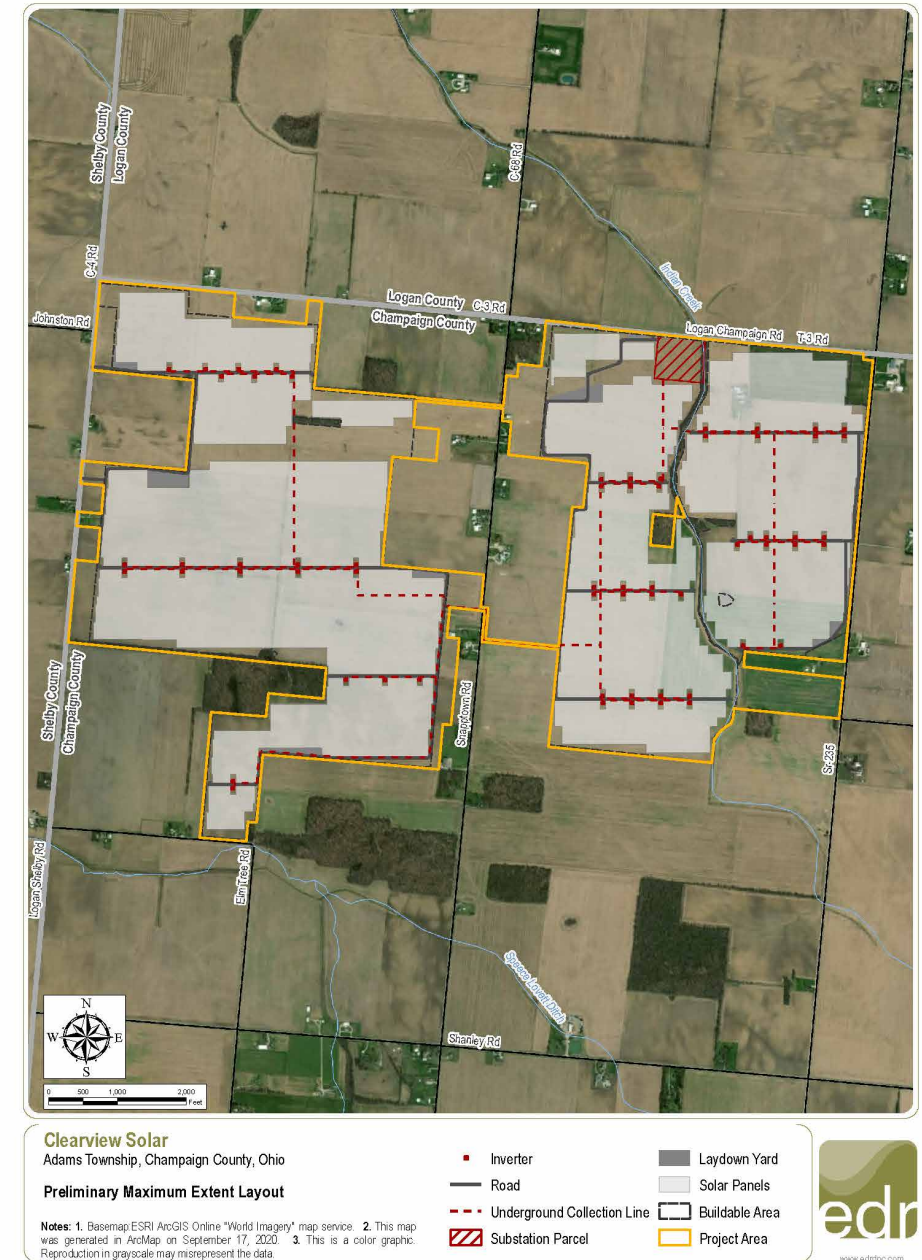
Samantha Sawmiller
Development Manager

Project Overview

Clearview Solar is a proposed photovoltaic (“PV”) electric generation facility located north of Rosewood in Adams Township, Champaign County. The Project will have a maximum nameplate capacity of 144 MW. The Project will occupy approximately 900 – 1000 acres of agricultural land, which can be returned to farming after 40 years. Construction of the facility is expected to begin as early as late 2021 and will take approximately 12 months.

Project Data:

- Technology: Solar PV
- Racking: Single-Axis Tracker
- Foundation: Driven steel pilings
- Interconnection Voltage: DP&L 138kV
- Maximum Capacity: 144 MW
- OPSB Case Record No.: 20-1362-EL-BGN
- OPSB Docket Link: <http://dis.puc.state.oh.us/CaseRecord.aspx?CaseNo=20-1362-EL-BGN>



Local Benefits

Clearview plans to pursue a PILOT Agreement – a statewide program run by the ODSA – which codifies the many benefits for Champaign County as a result of the construction and operation of the solar project.

- **Workforce Development** - The PILOT program requires that 80% of construction employees must live in Ohio—a potential impact of hundreds of local jobs
- **Increase in Revenue for Local Taxing Jurisdictions** - \$1.0 million in revenue per year ($\$7,000/\text{MW}/\text{Year} \times 144 \text{ MW} = \$1,008,000$) to local taxing jurisdictions – an increase equal to 25 times what is currently collected on that same acreage
- **School District Held Harmless** – Revenue under the PILOT does not count against state funding received by Graham Local Schools – meaning the PILOT is the best way to ensure maximum benefit
- **Additional Revenue for the General Fund** – Clearview would also pay an additional \$288,000/year ($\$2,000/\text{MW}/\text{YR} \times 144 \text{ MW} = \$288,000$)
- **Emergency Response Training** – Clearview will be required to conduct ongoing training and provide necessary equipment for first responders
- **Road Use and Maintenance Agreement** – Clearview will be required to negotiate a bonded RUMA committing to improve and repair roads impacted by project activities during construction, operation, and decommissioning
- **University or Vocational Support** – Clearview will be required to work with a college or vocational school, providing funding, apprenticeship opportunities, or other kinds of support

| Annual Revenue* | Current Revenue | Projected Revenue w/ PILOT |
|-----------------|-----------------|----------------------------|
| \$/Acre | \$40/ac | \$1,296/ac |
| Total | \$40,000/yr | \$1,296,000/yr |

*assuming 1,000-acre array area with an average CAUV tax rate of \$40/acre and a \$9,000 total PILOT



Local Engagement

- **Frequent notices** to project neighbors (OPSB required and voluntary)
- Clearview continues to hold weekly **Virtual Office Hours**
- Launched the **Home Solar Program** for project neighbors – providing a residential solar array to offset domestic energy usage
- When appropriate, Clearview will again hold meetings with neighbors and the general public
- **Frequent updates** to website and Facebook page



CLEARVIEW SOLAR VIRTUAL OFFICE HOURS

*Learn more about
Clearview Solar*

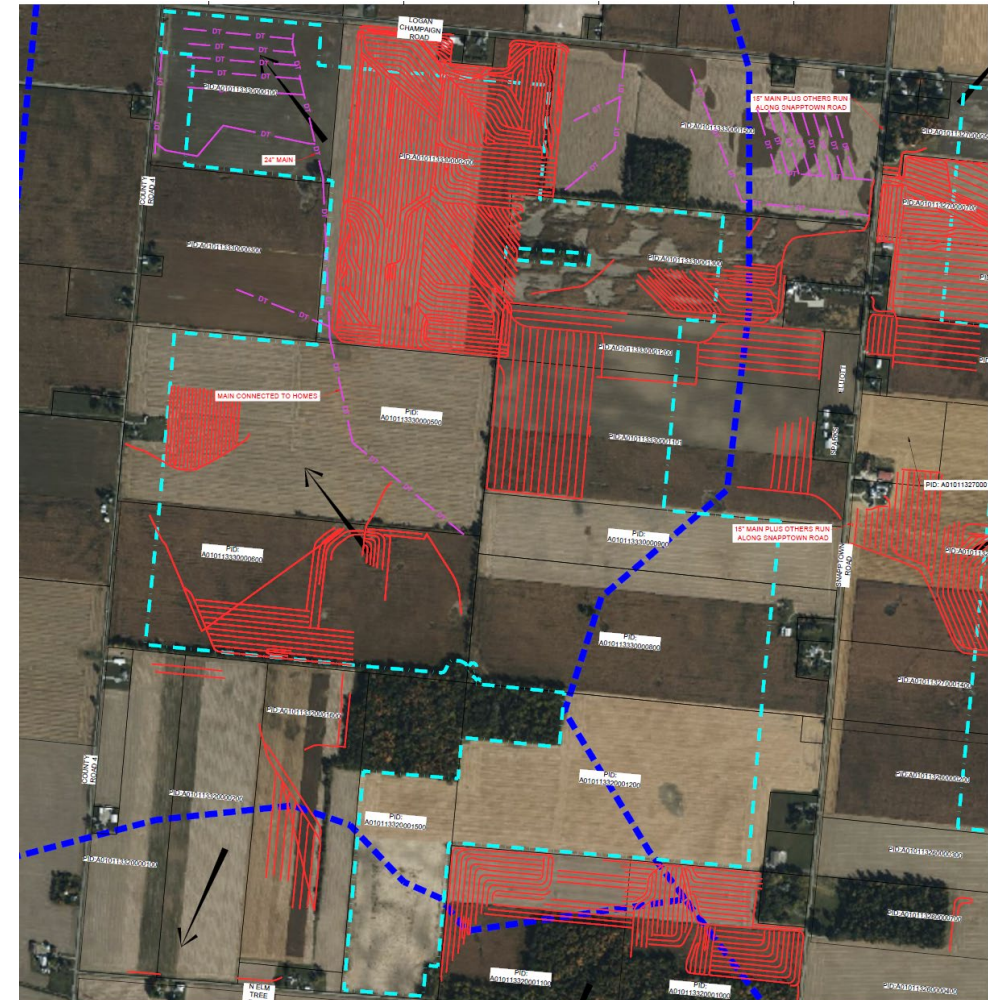
Thursday, January 7
12:00pm-1:00pm

Virtual office hours link:
<https://zoom.us/j/91042148932>








CLEARVIEW SOLAR

Near-Term Development Activities





- Road Use and Maintenance Agreement
 - Clearview will work with Engineer and Prosecutor
- Stormwater, Drain Tile, Vegetation Management
 - Clearview will work with Soil and Water Conservation District and project neighbors
- Emergency Response Training
 - Clearview will work with local fire, police, and EMS to outline future training arrangements
- Coordination w/ Federal and State Agencies
 - OEPA, US Army Corps of Engineers, ODNR, ODOT



Voting Board Members

| | | | |
|--|--|--|---|
|  <p>Gregory Murphy, P.E.</p> <p>Ohio Gov. Mike DeWine nominated Gregory Murphy as the public member of the Ohio Power Siting Board.</p> <p>Public Share</p> |  <p>Mary Mertz, Director</p> <p>Ohio Gov. Mike DeWine nominated Mary Mertz as Director of the Ohio Department of Natural Resources.</p> <p>Ohio DNR Share</p> |  <p>Stephanie McCloud, Director</p> <p>Stephanie McCloud is Director of Health for the Ohio Department of Health.</p> <p>ODH Share</p> |  <p>Laurie Stevenson, Director</p> <p>In Jan. 2019, Governor Mike DeWine appointed Laurie A. Stevenson as director of the Ohio EPA.</p> <p>Ohio EPA Share</p> |
|  <p>Lydia Mihalik, Director</p> <p>Lydia Mihalik is the director of the Development Services Agency and was appointed by Governor DeWine</p> <p>ODSA Share</p> |  <p>Dorothy Pelanda, Director</p> <p>Dorothy Pelanda was appointed as the 39th Director of the Ohio Department of Agriculture by Governor</p> <p>ODA Share</p> |  <p>M. Beth Trombold, Acting Chair</p> <p>M. Beth Trombold was appointed to the PUCO by in 2013 and reappointed to a second term in 2018.</p> <p>PUCO Share</p> | |

Non-Voting Legislative Members

| | | | |
|--|--|---|---|
|  <p>Nino Vitale, Representative</p> <p>Serving his third term in the Ohio House of Representatives, Nino Vitale represents the 85th District</p> <p>Ohio House o... Share</p> |  <p>Jeffrey Crossman, Representative</p> <p>Representing Parma, Brooklyn Heights, Cuyahoga Heights, and part of Southwest Cleveland.</p> <p>Ohio House o... Share</p> |  <p>Sandra Williams, Senator</p> <p>State Senator Sandra Williams, who represents Ohio's 21st Senate District, is currently serving her</p> <p>Ohio Senate Share</p> |  <p>Steve Wilson, Senator</p> <p>State Senator Steve Wilson is currently serving his first four-year term in the Ohio Senate.</p> <p>Ohio Senate Share</p> |
|--|--|---|---|

The Ohio Power Siting Board

The Ohio Power Siting Board's mission is to support sound energy policies that provide for the installation of energy generation and transmission infrastructure for the benefit of Ohio citizens, promoting the state's economic interests, and protecting the environment and land use.

- This is a state-run process involving all relevant state agencies
- The process is thorough and transparent

Significant opportunity for local involvement throughout the process

Project Status

December 18, 2020

- Clearview submitted its Application to OPSB Staff

February/March 2021

- Staff issued completeness determination
- Staff beginning investigation

April

- April 7 – 8th - Staff will hold site visit to confirm findings in the application

May 2021

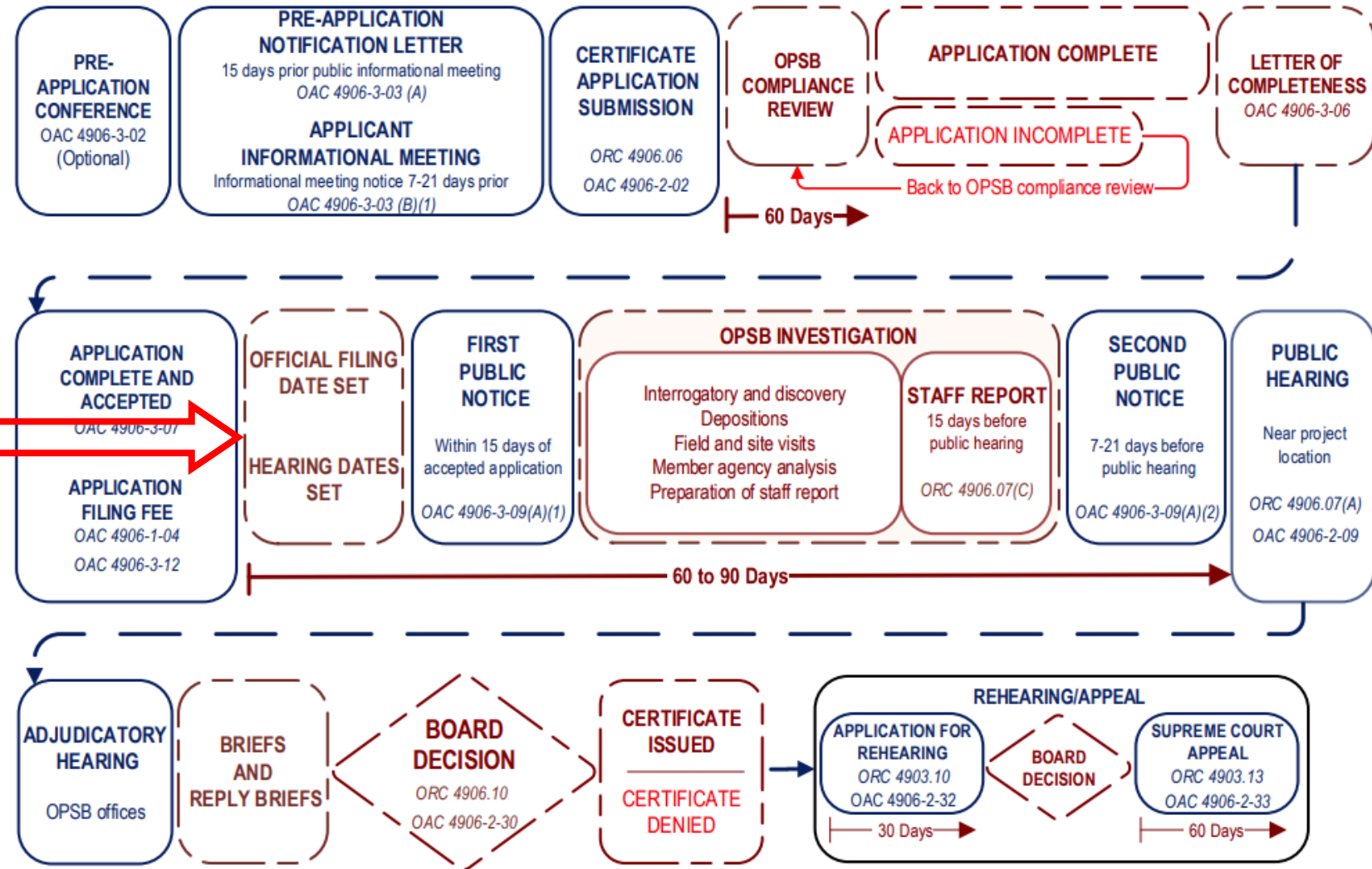
- May 24th - Staff will issue its Staff Report

June 2021

- June 8th - OPSB will Public Hearing
- July 1st – OPSB will hold Evidentiary Hearing

September 2021

- OPSB Decision



LEGEND



Construction and operation are monitored by the OPSB

Updated: June 7, 2017

Application Contents

- The Application is comprised of three parts: Narrative, Figures, and Exhibits
- Application Exhibits include the Plans and Reports that are summarized in the Narrative
- The full application is available online:
<http://dis.puc.state.oh.us/CaseRecord.aspx?CaseNo=20-1362&link=DIVA>

| Civil | Cultural | Socioeconomic / Transportation | Environmental / Ecological | Interconnection |
|------------------------------|-------------------------------------|--------------------------------|------------------------------------|-------------------------------|
| Drainage Assessment | Cultural + Historical Desktop Study | Economic Impact Study | Wildlife Report | Feasibility Study |
| Culvert Inventory | Visual Resources Assessment | Transportation / Route Study | Wetland Delineation | System Impact Study |
| Decommissioning Plan | Phase I Workplans | | Vegetation Management Plan | Facilities Study |
| Well Survey & Groundwater | Phase I Architecture Survey | | Glint & Glare Analysis | Interconnection Services Agmt |
| Prelim Geotech Investigation | Phase I Archeology Survey | | Sound Level Assessment | |
| Preliminary Design | | | Landscaping Plan | |
| | | | USACE Jurisdictional Determination | |

Solar Components

Steel Pilings

Construction of a solar facility requires minimal ground disturbance and results in the creation of very few impermeable surfaces

- Steel pilings are the foundation for solar arrays.
- Pilings are driven 5 – 10' into the ground for stability.



Solar Components

Racking

Solar projects use racking that is either fixed tilt or single-axis trackers (SAT)

- Metal racking is mounted on the rows installed pilings
- Rows are spaced to avoid shading each other and for maintenance access
- Racking is configured to withstand high wind speeds and, in the case of single-axis trackers, stows for maximum array stability

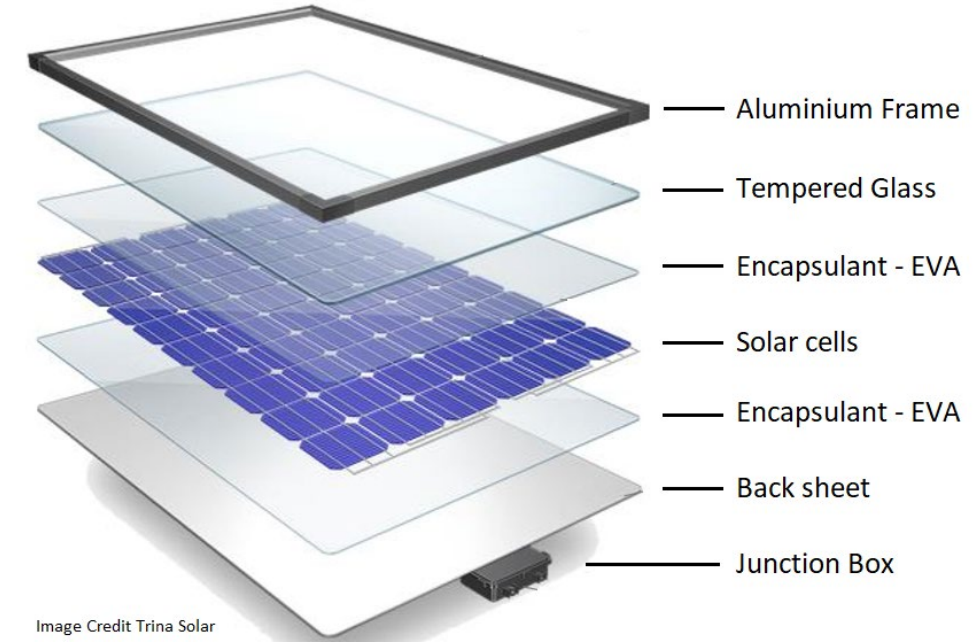


Solar Components

Solar Panels or Modules

Solar PV is a mature, safe technology used to produce energy in many settings such as at homes, schools, farms, or businesses

- Solar projects use several industry standard solar panel varieties: Crystalline, Crystalline Bi-facial, or Thin Film
- Solar panels are composed of layers of tempered glass, encapsulant, solar cells, and a back sheet
- In the event of cracking or breakage, solar panels maintain their integrity (similar to a car windshield) and contain nothing that can leak



Solar Components

Inverters, Collection Lines, & SCADA

Direct current (“DC”) electricity generated by the solar panels is converted to alternating current (“AC”) at an inverter and is transported to Clearview’s substation through a network of collection lines

- Inverters are located throughout the solar array and are installed on a concrete pad or metal skid along with a medium voltage transformer
- The collection line network is buried 2 – 4’ below ground and transport AC electricity between the inverter/transformer and substation
- Supervisory Control and Data Acquisition (SCADA) is a system that allows for control and monitoring of the array trackers, inverters and other project components. SCADA networks are connected via fiber optic cables



Operational Impacts

- No pollution
- No odor
- No dust
- No discernable movement
- Quiet
- Not operated at night
- Minor traffic
- Minimal light



Removal & Return to Farming

At the end of the Project's 40-year life, the solar project will be decommissioned, and land restored to its current agricultural condition.

As part of its OPSB submission, Clearview will submit a preliminary Decommissioning Plan that describes:

- Bonding to ensure funds are available for decommissioning and restoration
- Removal of equipment from the site
- Removal and decompaction of roads
- Restoration of agricultural land to substantially its pre-solar condition



In Summary

- Clearview represents a major investment in Graham Local Schools' district – over \$500k/year to the budget
- Our team is working hard to address questions, concerns, and to create a best-in-class project
- The OPSB process is thorough and transparent
- Solar is a safe, mature technology and a low-impact land use

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Email: clearview@openroadrenewables.com

Web: clearviewsolarproject.com

Questions?

Email: clearview@openroadrenewables.com

Website: www.clearviewsolarproject.com

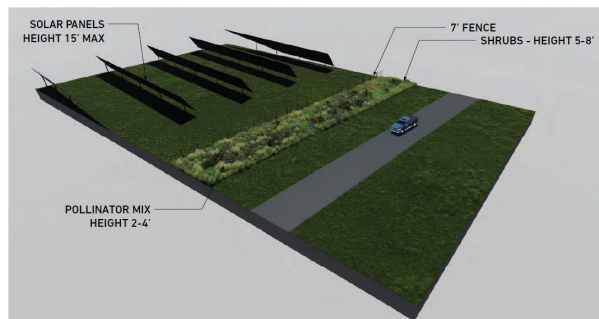
Facebook: www.facebook.com/Clearview-Solar-Project-101347974960171

OPSB: <https://opsb.ohio.gov/wps/portal/gov/opsb/>

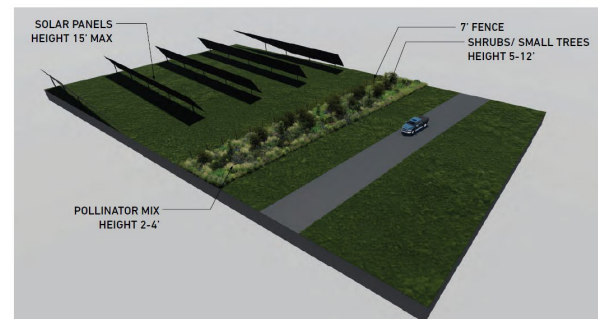
Clearview Case Docket: <https://opsb.ohio.gov/wps/portal/gov/opsb/cases/20-1362-el-bgn>

Thursday 12 – 1 PM Open House: <https://zoom.us/s/91042148932>

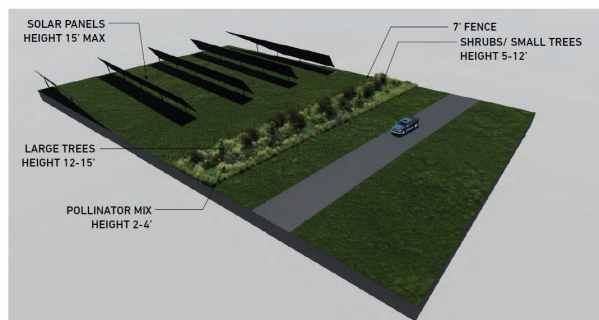
Landscaping



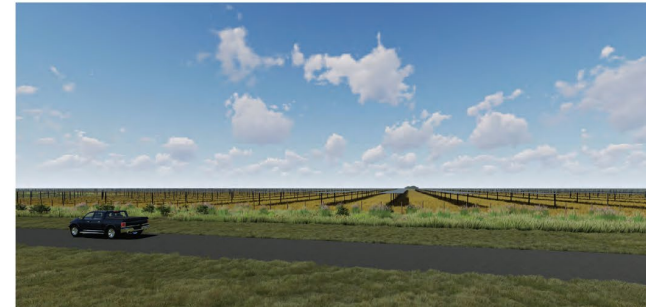
LOW DENSITY PLANTING - POLLINATOR MIX



MEDIUM DENSITY PLANTING - POLLINATOR MIX AND LARGE SHRUB / SMALL TREES

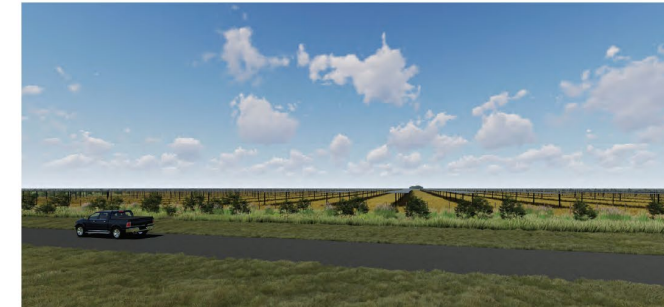


HIGH DENSITY PLANTING - POLLINATOR MIX, LARGE SHRUB / SMALL TREES AND LARGE TREES



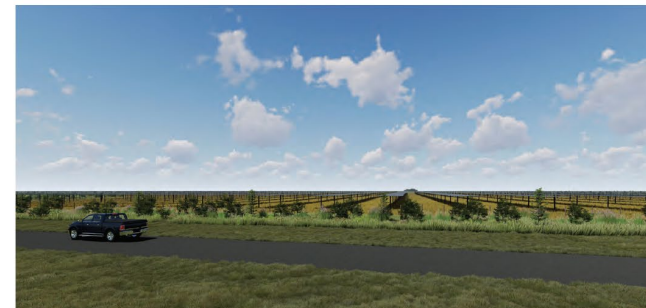
LOW DENSITY PLANTING - POLLINATOR MIX

SOLAR PANELS FROM A 60' DISTANCE ON AN EAST-WEST ROAD. PANELS SHOWN FLAT AT MINIMUM 9' HEIGHT.



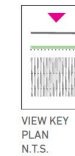
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VIEW KEY
PLAN
N.T.S.

Drain Tile

- Collected written and GPS located tile data from County, Township, and participating landowners
- Requested data from project neighbors
- Reaching out to Soil and Water for additional information

