SOLAR PROJECT

April 13, 2022

Community Meeting & Project Introduction



Agenda

SOUTHWEST MICHIGAN SOLAR PROJECT



Project Team & Savion

Large Scale Solar

Energy Storage Southwest Michigan Projects

Q & A

Project Team

- Tim Conboy, Development Director, Savion
- Travis Narum, VP of Development, Savion
- Emily Truebner, VP of Permitting & Environmental, Savion
- Jason Funk, Director, Permitting & Environmental, Savion
- Christina Martens, PLA, Planning Lead & Manager, ECT
- Mike Ivy, Senior Project Development Engineer, Savion
- Anthony Doering, Senior Manager of Transmission, Savion
- Daniel Lorenzen, Business Analyst, Savion
- Others in real estate, power marketing, finance and procurement

About Savion

SOUTHWEST MICHIGAN SOLAR PROJECT

Savion, a Shell Group portfolio company operating on a stand-alone basis, is an industry-leading solar and energy storage organization built on a foundation of specialized experience and mastery in the craft of development.

With a growing portfolio of more than 19 GW, Savion is currently one of the country's largest and most technologically advanced utility-scale solar and energy storage project development companies.

Savion's diverse team provides comprehensive services at each phase of renewable energy project development, from conception through construction. Savion is committed to helping decarbonize the energy grid by replacing electric power generation with renewable sources and delivering cost-competitive electricity to the marketplace.



About Us



*



Founded in 2019, the Savion team is comprised of utility-scale solar and energy storage development experts. U.S. based company headquartered in Kansas City, MO, with projects in various phases across 27 states. Over 125 employees providing comprehensive services at each phase of renewable energy project development.

Expertise and Strategic Partnerships



Our Team of Experts

- Utility-scale solar power project development
- Utility-scale energy storage project development
- Project Design, Contracts & Construction
- Transmission interconnection and delivery
- Meteorology
- Environmental Studies
- Land acquisition (real estate/title/mineral work)

Our Partners and Customers

- Commercial and industrials
- Investor-owned utilities
- Cooperatives
- Municipalities

- Permitting
- Regulatory
- Financial Analysis
- Origination and energy marketing
- Geographic Information Systems (GIS) and resource mapping systems
- Project acquisition and due diligence
- Energy storage integration
- State and federal utilities
- Landowners
- Project host communities
- County leadership



Q1 2022

Projects Portfolio

Solar and Energy Storage in Operation/Under Construction/Contracted

2,533 MW 31 Projects 12 States Solar in Development

12,909 MW80 Projects26 States

Energy Storage in Development

4,209 MW 50 Projects 17 States



Large Scale Solar



Large Scale Solar





Battery Energy Storage System



Solar + Energy Storage Project Attributes

- 800+ acres of compatible private land with access to sunlight
- Access to the high voltage electric grid where capacity exists
- No undue community, environmental or cultural impacts
- Solar module arrays meeting setback requirements
- Electrical collection system
- Project substation
- Battery energy storage system
- Generator tie line connecting the project to the electric grid
- Gravel access roads
- Perimeter fence and vegetative screening where necessary

Energy storage is useful on a grid scale for 3 primary reasons:

- 1. When charged with renewable energy like solar, energy storage delivers firm, flexible, clean energy and capacity.
- 2. Energy storage can store energy in times of excess production and discharge that energy when it is needed.
- 3. Energy storage provides real-time balance of power supply and demand, creating more reliable, stable and productive electric grids for our country.

"Energy storage fundamentally improves the way we generate, deliver, and consume electricity. Energy storage helps during emergencies like power outages from storms, equipment failures, accidents or even terrorist attacks. But the game-changing nature of energy storage is its ability to balance power supply and demand instantaneously – within milliseconds – which makes power networks more resilient, efficient, and cleaner than ever before." (ESA, 2019)

Solar + Energy Storage Project Benefits

- Economic Development
 - New tax revenue for the host townships, school districts, county and other tax jurisdictions with little to no additional services required
 - New local spending on goods, services and wages, primarily during construction
 - Landowner revenue through leases, easements and purchases for use of land
 - Economic diversification
 - Competitively priced electricity
- Environmental
 - Renewable
 - Clean with a low profile
 - No cooling water required
- Energy Security
 - Electricity generation diversification and distribution
 - Dispatchable renewable energy from battery energy storage system

The Solar Industry in Michigan

- Solar Installed: 759 MW
- Homes powered equivalent: 131,858
- Solar jobs: 3,379
- Solar companies: 178 (60 Manufacturers, 68 Installers/Developers, 50 Others)
- Total solar investment in Michigan: \$1 billion
- 5 year growth projection: 2,388 MW
- Nearby project: Indiana Michigan Power's 4.6 MW Watervliet Solar Power project commenced operation in 2016
- Source: Solar Energy Industries Association

- Solar and energy storage project proposed for Decatur and Hamilton townships, Van Buren County
- Estimated Project Area: Approximately 980 acres
- Estimated Project Footprint: Approximately 800 acres
- Project has entered a long-term solar lease for the main project area and has entered easements and purchased a 20 acre parcel for its 1.4 mile transmission line (generator tie line)
- Point of Interconnection: AEP's Valley Substation in Decatur Township



138 kV Transmission Line Preliminary Design

- Single steel pole
- Similar to existing lines that terminate at the Valley Substation
- Typical height: 70 –
 95 feet
- Typical distance
 between poles: 400
 feet





Project Information*

- Electricity Generation Capacity: 100 MW
- Annual Generation: 219,000 MWh (28,000 MI households)
- Energy Storage Capacity: 52 MW
- Total Investment: \$187 million
- Earliest Possible Construction Start: 2023
- Earliest Possible Commercial Operation Date: 2024
- Operating Life: 35 years
- New property tax revenue for townships, school districts and county over the project's operating life: TBD

*Preliminary projections and estimates

Frequently Asked Questions

End-of-Life Decommissioning

How are solar panels managed when they are no longer in use?

At the time of decommissioning, all panels, equipment and materials will be reused, recycled, or properly disposed. The project land will be restored to its original condition at the expense of the developer. This is required by ordinance and guaranteed in land agreements and money is set aside for this during construction.

Public Safety

Are there any public safety issues that arise from areas where solar arrays are installed?

Large-scale ground-mounted arrays are enclosed by fencing. This prevents children and the general public from coming into contact with the installations. Warning signs and sometimes alarm systems are installed to deter unauthorized individuals from entering the solar array area.

Efficiency

Where does the power go?

Think of solar energy just like the other crops, like corn, wheat, and dairy that are currently harvested in your community. While some of those resources stay local, many are shipped outside your community but provide valuable income and jobs locally.

Solar Panel Design / Visual Impacts

What are the visual impacts of the solar array once constructed?

Large solar projects have similar characteristics to a greenhouse or single-story structures. They are often enclosed by fencing and selective landscaping to minimize visual impacts.

How important is reflectivity and potential visual impacts from solar projects?

Solar panels are designed to absorb solar energy and convert it into electricity. They reflect only about 2% of incoming light, so issues with glare from PV panels are rare.

How does the traffic associated with large solar projects impact nearby residential and agricultural property?

Solar projects do not attract high volumes of additional traffic after the construction phase is completed.

Property Values

Do ground-mounted solar PV arrays negatively impact property values?

In examining property values in states across the U.S., recent studies show that living in proximity to a solar farm does not deter the sales of agricultural or residential land. According to the Solar Energy Industries Association (SEIA), large-scale solar arrays often have no measurable impact on the value of adjacent properties.



- Review comments from community members
- Create site plan and permit applications and submit to townships
- Permit application review by townships
- State wetlands permitting
- Cultural studies
- Contract for project's sale of energy and storage
- Final project engineering and design
- Building permits
- Construction



- The Southwest Michigan solar and energy storage projects are opportunities for the community to realize significant economic benefits
- The projects will be designed, constructed and operated to avoid and minimize adverse impacts on participating landowners, the host community and environmental and cultural resources
- We welcome comments, questions and ideas and we will work with local government and stakeholders to agree on requirements that will enable the project to go forward

Project Team Contacts



Tim Conboy Development Director Savion, LLC tconboy@savionenergy.com (816) 421-9622

Christina Martens Senior Associate Planner II Environmental Consulting & Technology, Inc. (ECT) cmartens@ectinc.com (989) 429-8444 Emily Truebner VP Permitting & Environmental Savion, LLC etruebner@savionenergy.com (303) 898-8308

SOLAR PROJECT

THANK YOU

AEENDING

QUESTIONS?