Fountain Point Solar Energy Center

Public Information Meeting

January 12, 2022



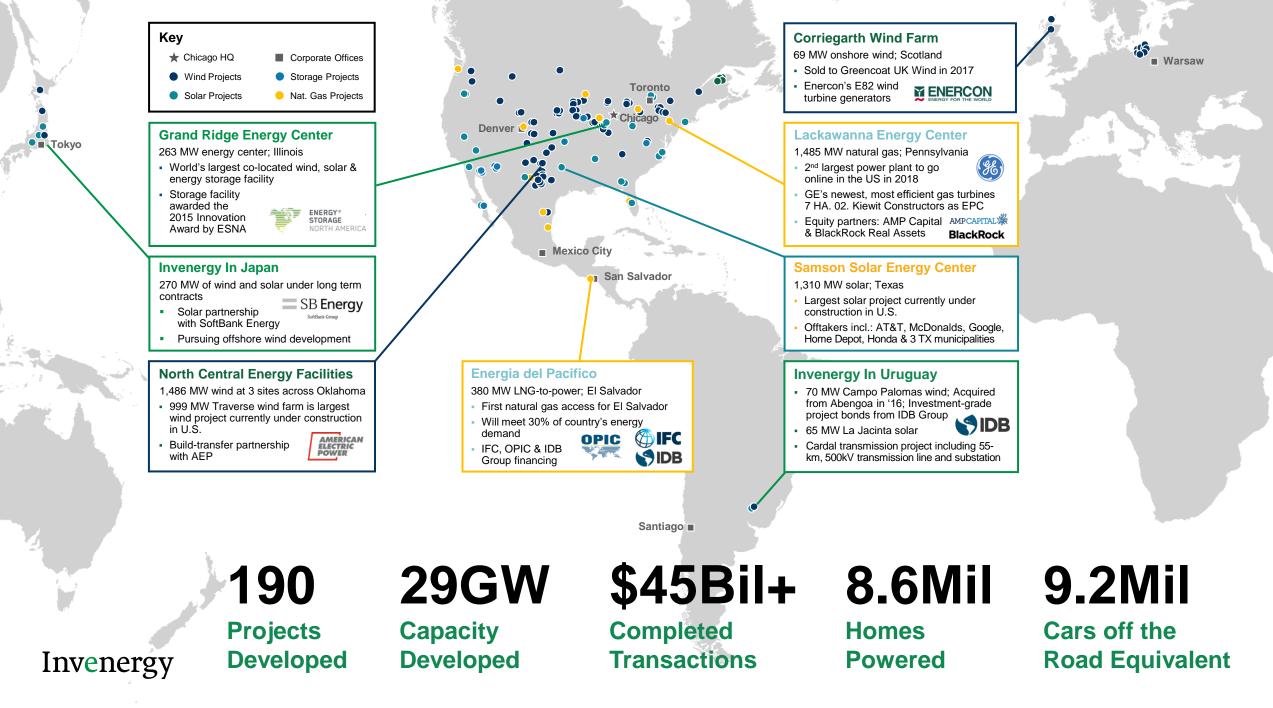
Agenda

- Invenergy Introduction
- Description of Project
- Project Schedule
- Project Components and Facilities
- Current Project Conceptual Map
- Project Studies
- Community Engagement & Impacts
- Ohio Power Siting Board Process
- Contact Information



Invenergy Introduction



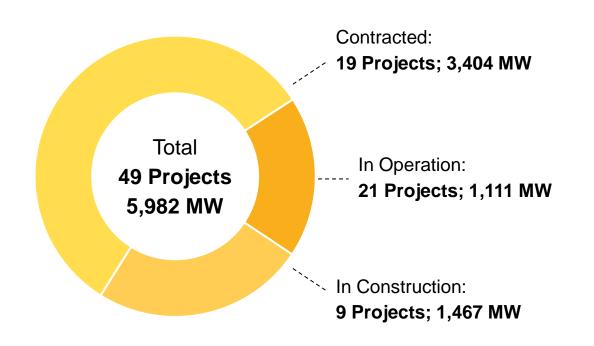


Invenergy Solar Experience

- Harnessing the sun since 2012 to deliver low-cost renewable energy
- Experience including
 - Serving utility, public power, and corporate customers
 - Structures including PPAs and build/development-transfer
- Meeting growing demand for solar with:
 - Technology innovation
 - Relationships with Tier 1 suppliers
 - Unparallel project execution
 - Safe & reliable operations



Invenergy Solar Portfolio



Invenergy's Experience In Ohio

11+ Years of Experience Developing Renewable Energy Projects in the Buckeye State

Hardin Solar I

- 150 MW Project located in Hardin County, OH
- <u>Approved OPSB Certificate</u> February 2018
- Commercial Operations achieved

Hardin Solar II

- Proposed 170 MW Project located in Hardin County, OH
- <u>Approved OPSB Certificate</u> May 2019

Hardin Solar III

- Proposed 300 MW Project located in Hardin County, OH
- <u>Approved OPSB Certificate</u> November 2021

Vinton Solar

- Proposed 125 MW Project located in Vinton County, OH
- Approved OPSB Certificate September 2018

Cadence Solar

Proposed 275 MW Project located in Union County, OH

Pleasant Prairie Solar

Proposed 250 MW Project located in Franklin County, OH

Yellow Wood Solar

Proposed 300 MW Project located in Clinton County, OH

Invenergy

State approves projects that will create Ohio's two largest solar farms

NEWS LISTS & LEADS PEOPLE & COMPANIES EVENTS LEADERSHIP TRUST MORE.

BUSINESS FIRST

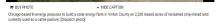


Vinton County optimistic about proposed solar-energy project

"Vinton County optimistic about proposed solar-energy project" - Columbus Dispatch, September 11, 2017

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energy ck Showmen ck Showmen

MOST POPULAR 1 Before mostly mask-less Ohio

COVID violation Sep 21 at 1:44 PM 3 Ohio's positive COVID-19 test rate

rowds, Trump asserts COVID-19

'affects virtually nobody'

2 Downtown Columbus bar cited for

drops to lowest level of pandemic Sep 21 at 2:40 PM

now backs Senate vote on Supre Court nominee

> Sponsorship at the Vinton County Fair, July 2017

Beginnings – Fountain Point Solar Energy LLC

- Fountain Point Solar Energy LLC is a wholly-owned subsidiary of Invenergy Solar Development North America LLC (Invenergy).
- Began preliminary due diligence: August 2018
 - Available Transmission Capacity and robustness of certain components of the transmission grid
 - Targeted large agricultural tracts of land with minimal topography
- Entered into PJM Queue: September 2018
- Actively began negotiating land agreements: February 2019



Description of Project

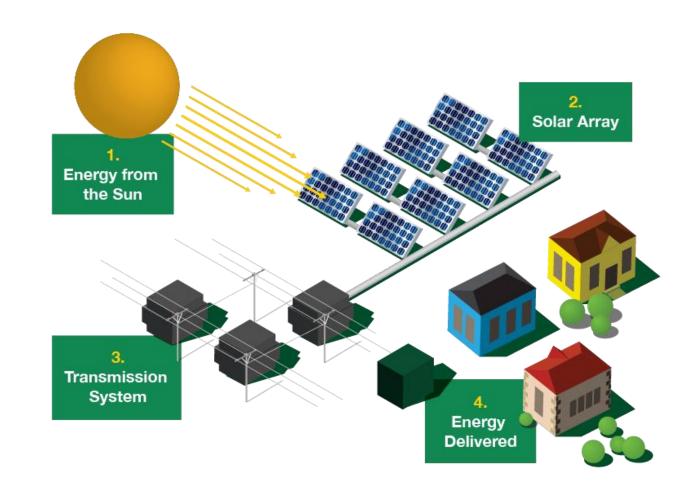


Fountain Point Solar

Proven Technology

> Innovative Design

Year-Round Sunlight



Invenergy uses **state-of-the-art photovoltaic (PV) panels to** harness the sun's energy. Nearby transmission infrastructure will deliver energy to the grid.



Description of Project

- The Fountain Point Solar Energy Center (Project) is a 280 MW solar-powered electric generation facility located primarily in Bokescreek Township, Logan County, OH.
 - The Project is sited about 9 miles northeast of Bellefontaine, near West Mansfield.
- The Project will be connecting into the Kirby-Blue Jacket 138kV transmission line via the AE1-092 PJM queue position.
- The Project represents Invenergy's commitment to continued investment in Ohio utility scale solar generation projects.





Smart Columbus Introduces Renewable Energy Procurement for Large Columbus Region Energy Buyers

Cardinal Health. Huntington and AEP sign on as first customers to buy Ohio-based clean energy from Smart Columbus Energy, powered by AEP Energy

Why Ohio?

Cost Competitive Technology

Solar technology is simple and scalable; its flexible and reliable. With costs that have decreased by nearly 90% in less than a decade, solar is now one of the least expensive and fastest growing sources of new energy generation in the world.

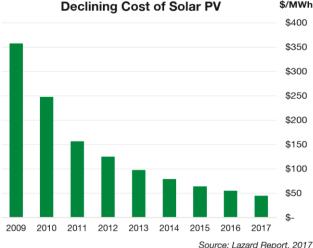
Commercial and Municipal Demand

- Nearly 70% of Ohio's regional planning commissions have publicly noted an interest in renewable energy or environmental sustainability plans*
- City of Columbus Proposed Electric Service Aggregation Program (Ballot Issue 1)
- Smart Columbus Energy- Aggregation for local large corporate and industrial organizations that consume approximately 5,000MWh or more per year. •
- Nationwide Commercial & Industrial Users
 - Ohio's 60 largest employers have an average target of utilizing 80% renewable energy sources by 2025 to 2030*
- **Decarbonization goals from utilities like American Electric** Power (AEP)
 - Renewable projects and relationship to carbon emission free energy generation. Cleaner air/water.

Invenergy

*Ohio Renewable Energy Low-Conflict Zone Research Study; led by The Great Plains Institute and conducted by Gilbert Michaud, Ph.D., assistant professor at Loyola University





GOVERNMENT

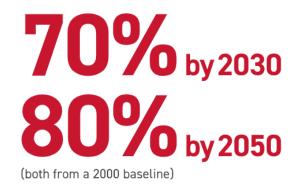
Columbus voters approve greenenergy aggregation plan

Bill Bush

Published 10:48 p.m. ET Nov. 3, 2020 Updated 11:28 a.m. ET Nov. 4, 2020

The Columbus Dispatch

AEP's Carbon Emission Reduction Goals



\$/MWh

Project Schedule



Tentative Schedule



Development Timeline

2019 - 2023

Development

Activities include permitting, environmental and interconnection studies, and public feedback

2023 / 2024

Construction Groundbreaking, construction, inspections and QAQC, Final commissioning and certification

Q4 2024

Operations

Operations and continuous Maintenance of equipment and the land.

Operations / Decommissioning

- From current land agreements, the project can operate for approximately 45 years.
 - Landscape and vegetative management, equipment monitoring and inspections, project area security.
- The owner of the facility will be responsible for removing the facility at the end of its useful life, as required by the operational conditions put forth by the Ohio Power Siting Board.
 - This decommissioning process is secured and protected via bonds or other financial security obligations as required by Ohio Power and Siting Board prior to commencement of construction.
 - Project components will be removed and recycled from the project area and the land will be returned to its current use and functionality.



Project Components and Facilities



Bi-facial Solar Modules

- Innovative design of proven technology
- Solar panels are made of glass, aluminum, copper and other common materials.
- Solar panels are safe to touch, attach to your home or install in your neighborhood.
 Solar panels have been attached to houses, hospitals and airports for decades.
- While there are different kinds of solar panels, the most common are made of silica

 the second most abundant element on earth after oxygen. The faces of silica panels are similar in substance to standard household glass.
- Committed to utilizing panels that will pass the EPA's Toxicity Characteristic Leaching Procedure (TCLP) testing Invenergy



Single-axis Tracking Systems

- Follows the sun throughout the day to harness energy at the optimal angle
- The Project will likely utilize a '2 in portrait' configuration
- Accommodates variation in ground cover planting species and allows for additional agricultural features
- Up to approximately 15' total height profile at times of most extreme tracking positions.



Other Components & Design

- The Project will also include associated support facilities such as access roads, meteorological stations, buried electrical collection lines, inverters, and a collection substation.
 - These support facilities serve the project through monitoring and maintenance means as well as allowing for the collection of electricity, the conversion of the electricity to a useful form, and transportation of that electricity to the grid to be put to work at a load.
- Conceptual engineering designs are underway and more detailed designs will be developed by professional engineers prior to construction.



Project Components and Facilities

- The project is undergoing local analysis, review, and design of both a landscape plan along with a vegetative management plan.
 - The landscape plan dictates how/where/what aesthetic plantings will be placed near and around the project area. There are typically multiple configurations of planting 'treatments' that can be utilized to achieve appropriate viewsheds of the project and project area.
 - The Project vegetative management plan will dictate how/where/what plantings will be placed under the solar panels, as well as how those plantings are to be monitored and maintained to ensure there are no project issues with drainage, invasive species, and mowings or clearings.



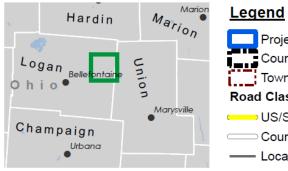
EXAMPLE CONDITION

Current Project Conceptual Map

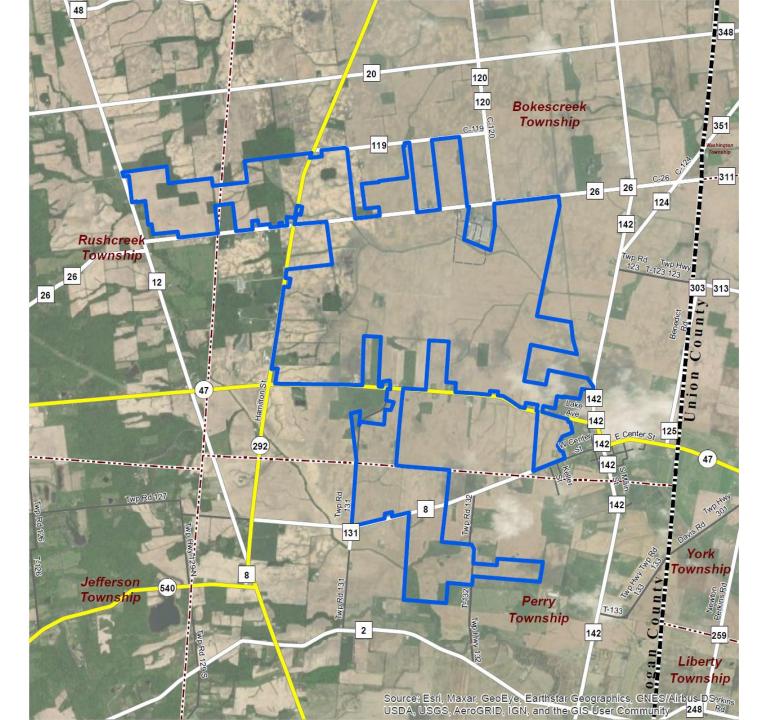


Project Overview

Fountain Point Solar Energy Center | Logan County, Ohio







Project Studies



Project Studies

The below listed studies help inform and advance Project design, incorporate avoidance of sensitive environmental resources, and ensure a high degree of environmental stewardship for the Project area.

- Ecological Site Characterization Study
- Wetlands and Waterbodies Delineation
- Landscape Plan
- Vegetative Management Plan
- Applicable wildlife surveys based on consultations from ODNR and USFW
- Phase I Environmental Site Assessment

Project Studies- Continued

The following studies inform on the design of the project from a Land Use and Socioeconomic perspective. These studies can help create value for the project area community.

- Phase I Cultural Resources Investigation
- Viewshed Analysis and Aesthetic Resources Inventory
- Road Survey and Conceptual Traffic Plan
- Decommissioning Plan
- Economic Impact Analysis
- Drain Tile Mapping Investigation and findings
- Noise Impact Study
- Property Value Study

Project Studies – Continued

The below listed studies mostly help inform and advance the project design from an Engineering perspective.

- Full Geotechnical Testing (pile load tests and cone penetration tests)
- Hydrology Study
- Drain Tile Mapping Investigation and findings
- Topography and aerial imaging



Community Engagement & Impacts

Our Invenergy Impact



\$258 million

Total 2020 local economic investment in wages & benefits, lease payments, and state & local taxes



\$1.4 million

Given to different cause-based organizations in 2020, focusing on veterans, education, emergency services & environmental stewardship



10% veterans

Percent of Invenergy's U.S.-based workforce who are military veterans or reservists

ORACLE

Sustainability Innovation Award

Awarded by Oracle to Invenergy in 2017 for sustainability leadership



Four Star Sponsor

First sustainable power developer & operator to sponsor National FFA (Future Farmers of America formerly)



#1 Renewables Reputation

Top brand reputation among 1,500 companies active in the North American renewables market



HIRE Vets Gold Medallion

Recognized in 2019 by the US Department of Labor for commitment to hiring veterans

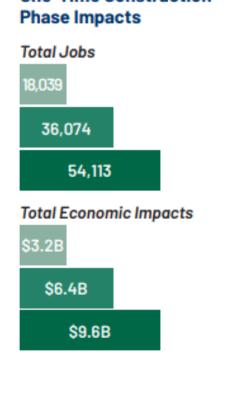


"Invenergy came in like a lot of big folks do and we didn't know what to expect of them. But it's all been a plus. It's refreshing, to tell you the truth, what they've done for us. And we look forward to the future."

Mike Elkins

Former County Judge and Director, Irion County, Texas Volunteer Fire Department

Measuring the **Economic** Impacts of **Utility Scale** Solar in Ohio



One-Time Construction

Conducted by the George V. Voinovich School of Leadership and Public Affairs at Ohio University

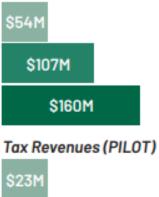
Deployment Scenarios		
Low (2.5 GW)		
Moderate (5 GW)		
Aggressive (7.5 GW)		

Annual Operations Phase Impacts

Total Jobs



Total Economic Impacts



\$45M

1M

1.5M

503K

\$68M

Total Homes Powered

Lifespan



Aggregate Lifespan

Operations Phase Impacts

\$1.8B \$2.7B

In the aggressive (7.5 GW) deployment scenario, the energy produced could power all of the households in Columbus, Ohio roughly four times over.

Invenergy

* All calculations assume 80% of labor and 30% of materials originate in Ohio.

Aggressive(7.5 GW)

Development Project Profile Fountain Point Solar Energy Center



Development Timeline

studies, interconnection studies, etc.

	2023-2024	Q4 2024
Development	Construction	Operation
Activities include wind assessment, environmental		



Enough electricity to power more than **55,544 American homes** 俞

An estimated **\$4.4 million** invested in Logan County **per year** through new taxes and landowners' payments over the life of the project



Will support an estimated **800 jobs** during peak construction

Up to **4 full-time** operations and maintenance jobs once operational

〇

Emissions reductions equivalent to taking **60,880** cars off the road

Invenergy supports local education, emergency & veteran services and environmental stewardship

Æ

Uses the most up-todate, innovative technology



Up to **280 megawatts** of sustainable energy

Municipal / County Conceptual Annual Payment Distributions

- Based on current conceptual design and county tax levy rates, this table shows a baseline approximation/minimum of the annual municipal and county payments that could be made with regards to the project.
- Other and/or additional payments are possible as this is just an initial baseline approximation.
- Physically, at this conceptual design level, about 85% of the project is located in Bokescreek Township, with 5%-10% each in Rushcreek and Perry Townships

Invenergy

Township payments would thus be split accordingly

Conceptual Minimum Project Payments

	Annual	Total
Logan County	\$366,333	\$16,484,985
Townships	\$180,993	\$8,144,685
Fire & EMS	\$176,507	\$7,942,815
Benjamin Logan Schools	\$1,121,142	\$50,451,390
Ohio Hi-Point JVS	\$115,025	\$5,176,125
Total	\$1,960,000	\$88,200,000

Benefits of Vegetation Management Approach

- Soil/planting diversity and health
- Can improve area stormwater drainage properties through diversified plantings and long rooted systems that can reduce soil erosion issues
- Project area will likely see a reduction or elimination of annual soil tilling
- Should improve downstream stormwater quality through the area reduction or elimination of fertilizer use
- Can help increase area pollinator habitats

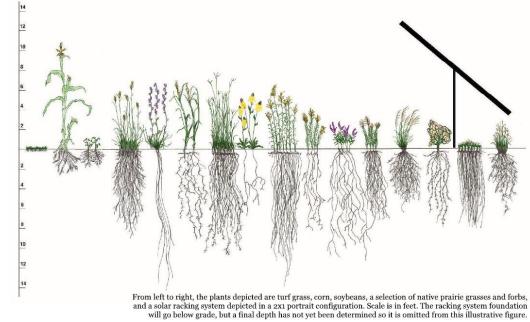


Figure 2: Selected Native Plant Rooting Depths and Growth Heights

"Through the conversion of approximately 2,000 acres of intensively managed active agricultural fields to permanently stabilized, perennially vegetated grasslands, the proposed Project [Pleasant Prairie] is anticipated to improve a number of key ecosystem services and exhibit an improved ecological condition."

-Resource Environmental Solutions, LLC

Involvement in Logan County

Local Outreach

- Mailings with project information to 140+ landowners
- Door-to-Door Efforts (w/social distancing protocol) to see specific concerns in and around the project area (50+ doors knocked)
- Phone outreach and follow up (~100+ calls completed)
- Online Engagement for information about solar and specific project details

Community Engagement

- Logan County Commissioners
- Bokescreek, Perry, and Rushcreek Township Trustees
- Benjamin Logan School District
- Bokescreek Fire Department
- Hi-Point Career Center
- Logan County Chamber of Commerce
- Kiwanis Club of Bellefontaine

Community engagement is an ongoing process, and we look forward to strengthening our relationships in Logan County

OPSB Process



OPSB Process

- Under Ohio law, electric generating facilities capable of generating more than 50
 megawatts must apply for a Certificate of Environmental Compatibility and Public Need
 (Certificate) from the Ohio Power Siting Board (OPSB).
- Per the Ohio Revised Code, the OPSB is entity that reviews and approves projects from a siting, land use, and entitlement perspective.
- Fountain Point Solar Energy LLC anticipates filing with the OPSB in Q1 2022.
- Further information from the OPSB follows this slide.





Chio Power Siting Board







Ohio s

Development Services Agency













- Before any company can build a "major utility facility," the OPSB assures that it benefits Ohio's citizens, promotes the state's economic interests, and protects the environment and land use.
- Public and local government participation are strongly encouraged, but decision-making authority rests with the OPSB.
- If approved, the OPSB issues a certificate for the construction, operation, and maintenance of the facility.



OPSB jurisdiction

Electric Generation

Solar farms 50 MW and greater

Wind farms 5 MW and greater

Fossil fuel plants 50 MW and greater

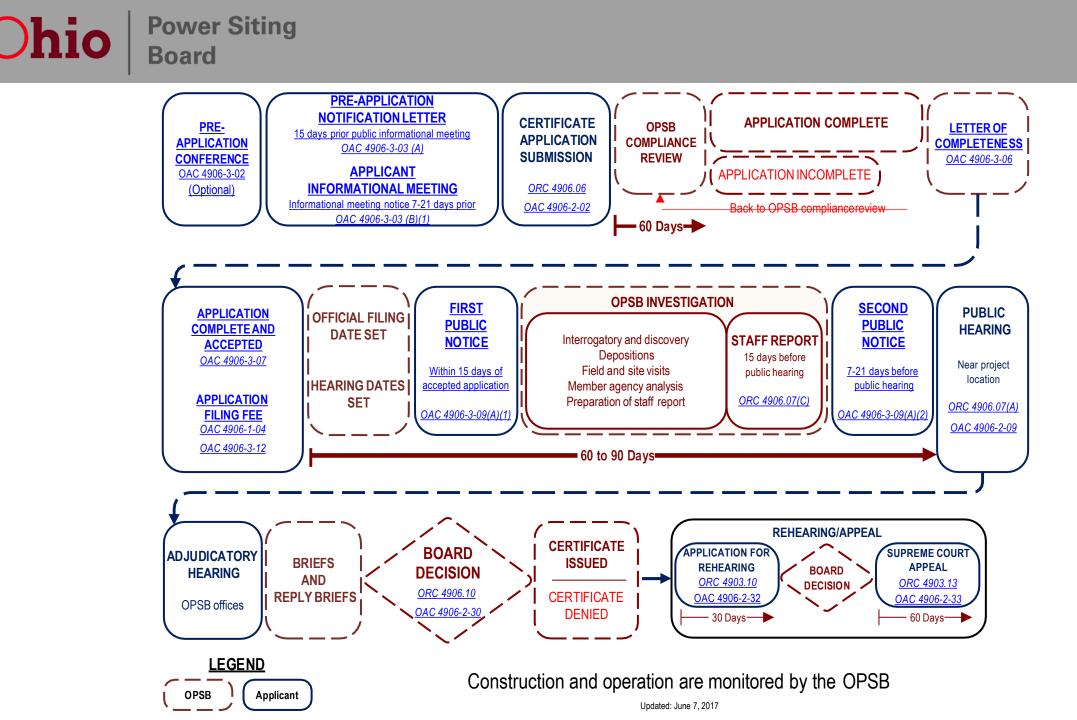
Electric Transmission

Lines and associated facilities 100 kV and greater

Natural Gas Transmission

Pipelines greater than 500 feet in length and 9 inches in diameter

Maximum operating pressure greater than 125 psi



How to participate

Public informational meeting

Board

Power Siting

Developer educates community about project and gathers input to consider in developing its application. OPSB representatives provide info about siting process and public participation.

Public comments

Written comments are filed in the case where they inform the Board members and staff. Comments are accepted at any time after a case number is established.

> Online: OPSB.ohio.gov Email: contactOPSB@puco.ohio.gov Mail: Ohio Power Siting Board 180 E. Broad Street Columbus, Ohio 43215

Local public hearing

Board obtains sworn statements from the public which are transcribed and become part of the official record that the Board considers before making its decision.

Held at least 15 days after staff publishes its report of investigation. Notification letters sent to property owners and local officials. Newspaper notice 7-21 before the hearing.

Adjudicatory hearing

The developer, OPSB staff, and parties to the case present testimony and evidence regarding the facility and cross examine each other. Intervention grants individuals and local governments the right to participate as a party in the adjudicatory hearing, file for rehearing, or appeal to the Supreme Court of Ohio.

Held approximately 2 weeks after the local public hearing. Property owners and local officials receive letters advising them of right to intervene.



Construction & operation

- If a project is approved, the OPSB monitors construction and operation to ensure compliance with the certificate and any conditions.
- The developer must notify landowners prior to start of construction.
- The developer must establish a complaint resolution process to address concerns resulting from project construction and operation.
- OPSB can assist individuals who feel they are not obtaining a resolution from the developer.



Stay in touch

OPSB Website

OPSB.ohio.gov

- Case summary page
- Process information
- Calendar of events

Docketing information system

dis.puc.state.oh.us

- View case documents and public comments
- Subscribe for case notifications

contactOPSB@puco.ohio.gov

866-270-6772

The Ohio Power Siting Board 180 East Broad Street Columbus, Ohio 43215



Applicant Contact Information



Applicant Contact Information

For further information about the Fountain Point Solar Energy Center, please contact us at:

Web:Mailing Address:https://fountainpointsolar.comFountain Point Solar Energy LLCc/o Invenergy LLCc/o Invenergy LLCEmail:One South Wacker Drive, Suite 1800Info@fountainpointsolar.comChicago, IL 60606





We're building a sustainable world.

Join us. in f 🎔 💿

