



Clean Energy Demonstration Program on Current and Former Mine Land – Mineral Basin Solar Project

The Clean Energy Demonstration Program on Current and Former Mine Land (CEML), managed by the U.S. Department of Energy's (DOE) Office of Clean Energy Demonstrations (OCED), aims to demonstrate the technical and economic viability of deploying clean energy projects on current (active) and former (abandoned or inactive) mine land in the United States. As part of this program, OCED sought applications demonstrating a range of technologies in diverse geographical regions to catalyze the next generation of clean energy projects on mine land. OCED selected five projects to begin award negotiations for a total of up to \$475 million in federal funding. In September 2024, OCED awarded the Mineral Basin Solar Project more than \$2 million to begin activities in Phase 1. The Mineral Basin Solar Project will be located in Clearfield County, PA.

Awardee Fact Sheet

Clean Energy Demonstration Program on Current and Former Mine Land: Mineral Basin Solar Project

Project at a Glance

- » **Total OCED Cost Share:** Up to \$90 million
- » **Phase 1 Total Project Amount:** \$12,479,690*
- » **Phase 1 OCED Award Amount:** \$2,344,949**
- » **Phase 1 Scope of Work:** Project planning, refining budgets and schedules, preparation for permitting processes, community benefits planning
- » **Phase 1 Timeline:** 3 months
- » **Recipient:** Mineral Basin Solar Power, LLC, a wholly owned subsidiary of Swift Current Energy, LLC, a renewable energy developer
- » **Project Locations:** Clearfield County, PA
- » **Project Start Date:** September 2024

*Represents the total project cost for Phase 1.

**Represents OCED's cost share for Phase 1. Additional funding for the project is subject to future award negotiations at the end of each project phase.

About This Project

Mineral Basin Solar Power, LLC (Mineral Basin) plans to develop 401 MW of solar photovoltaic (solar PV) generation on a site that was formerly used for subsurface coal mining in Clearfield County, PA. This project has the potential to be the largest solar farm in Pennsylvania to date, and it could produce enough clean energy to power more than 70,000 homes, increasing regional access to clean energy. Due to the site's topography and its environmental and geotechnical features, this project could serve as a demonstration for future coal-to-solar projects in Appalachia.

In September 2024, OCED awarded the Mineral Basin Solar Project more than \$2 million to conduct Phase 1 of the project, which is expected to last three months.

During Phase 1 of the project, Mineral Basin intends to refine business agreements as well as the project's schedule, budget, and financial model. The Mineral Basin team also aims to begin completing certain permitting and interconnection activities, engaging labor and community stakeholders, and planning community benefits activities. The project team has already completed much of the groundwork for Phase 1, including beginning discussions with potential investors and securing a spot in the "interconnection queue," which has enabled a brief, three-month-long Phase 1.

Mineral Basin Solar Project

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Project Site

The Mineral Basin Solar Project would be located in central Pennsylvania in Clearfield County. The project aims to develop Pennsylvania's largest solar farm on former coal mine sites in Girard and Goshen Townships. The project would reuse existing interconnection infrastructure to connect 401 MW of clean power to the grid.

Community Benefits Commitments

Community benefits commitments are a key component of the Mineral Basin Solar Project. The commitments are informed and developed—in consultation with local communities—to mitigate potential negative impacts of this project and maximize local community benefits. Due to the anticipated short duration of Phase 1, community benefit activities during this phase will focus on continuing community and labor engagement, establishing contractor agreements, and planning commitments and community engagement activities for implementation in later phases. Activities could include:

- **Establishing contracts with Edelen Renewables** to support community benefits implementation and monitoring.
- **Hosting kickoff meetings and two-way engagements** with community and labor stakeholders, subrecipients, and consultants to inform community benefit planning.
- **Planning community benefits activities for future phases related to engaging impacted communities and labor;** workforce planning; advancing community and workforce agreements; establishing a community advisory board; identifying, tracking, and reporting project impacts; and establishing partnerships to support equitable pathways to employment.

More details on the Mineral Basin Solar Project's community benefits commitments can be found in the [Community Benefits Commitments Fact Sheet](#).



A former mining site ready to be converted

The U.S. Department of Energy established OCED to help scale the emerging technologies needed to tackle our most pressing climate challenges and achieve net-zero emissions by 2050. OCED's mission is to deliver clean energy demonstration projects at scale in partnership with the private sector to accelerate deployment, market adoption, and the equitable transition to a decarbonized energy system.

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CEML Program Goals

Developing clean energy projects on mine land provides an attractive economic alternative to using undisturbed natural and agricultural land. Mine land is often located near critical infrastructure that makes it suitable for clean energy development, including electric substations, transmission lines, and access to roads or railroad lines. The projects in the Clean Energy Demonstration Program on Current and Former Mine Land have the potential to be replicated and scaled on the millions of acres of current and former U.S. mine land across the nation. CEML can help provide the mining industry with a range of ways to decarbonize their operations and minimize environmental impacts and air pollutants, abating greenhouse gas emissions and disturbances to fragile, surrounding ecosystems. Simultaneously, replicating clean energy technologies like these on other current and former mines can help maximize local workforce development and community opportunities for generations.



The last mine pit being filled for reclamation on the Shaw 2 site

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More Resources

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Office of Clean Energy Demonstrations: energy.gov/oced

