



# ON THE GRID

**PROJECT:** CEP RENEWABLES, CS ENERGY, TERRASmart, LINDSAY PRECAST AND NJR CLEAN ENERGY VENTURES HAVE COMPLETED THE LARGEST LANDFILL SOLAR POWER PROJECT IN NORTH AMERICA, IN NEW JERSEY.

**SIZE:** The 25.6 megawatt solar project is located in Mount Olive, in northern New Jersey, about 40 miles northwest of Newark.

**BACKGROUND:** In addition to the substantial benefits provided to the town, the large size and the challenging nature of this capped landfill solar project, the Mount Olive project is also said to be notable in that it involved the purchase of the landfill by way of the redevelopment and tax lien foreclosure process. This structure was said to be entirely unique and resulted in the project winning the 2021 Award for Innovation in Governance from the New Jersey League of Municipalities.

The Mount Olive project now serves as a model for the myriad other closed landfill sites throughout the U.S., both in terms of the redevelopment process as well as the design and construction execution, while also providing greater tax revenue and more affordable clean energy for local communities, says CEP Renewables.

There are over 10,000 closed landfills in the U.S., yet only a small fraction of these parcels have been redeveloped. Transitioning more of these landfill sites into solar projects can create more local tax revenue, jobs, cleaner air, and affordable energy for residents throughout the country.

**BENEFITS:** The Mt. Olive project has allowed the township to recoup nearly \$2.3 million in past taxes while at the same time transitioning the former Combe Fill North Landfill Superfund site into a revenue-generating, clean energy asset.

**PROJECT:** THE SMALL TOWN OF FULTON IS THE LATEST TO BENEFIT FROM THE RECENT SURGE IN SOLAR POWER DEVELOPMENT ACROSS WISCONSIN, WITH ALLIANT ENERGY COMPLETING ITS NORTH ROCK SOLAR PROJECT.

**SIZE:** Construction began in August 2021 on the 50 MW project, and was completed ahead of schedule without any recordable injuries.

**BACKGROUND:** With nearly 120,000 solar panels spanning 473 acres, the North Rock Solar Project can generate enough zero-fuel-cost electricity to power approximately 13,000 homes. It is the third utility-scale solar site Alliant Energy completed in 2022 as part of its Clean Energy Blueprint to deliver more sustainable, reliable and cost-effective energy to customers. With the completion of the North Rock Solar site, along with the previously announced Wood County and Bear Creek solar projects, Alliant Energy is now the largest owner-operator of solar generation in Wisconsin.

Less than 25 miles from the North Rock Solar site, Alliant Energy is also advancing the Albany Solar (50 MW) and Paddock Solar (65 MW) projects that the company expects to complete and place into service by the end of 2023. Following plans laid out in its Clean Energy Blueprint, Alliant Energy's combined 12 utility scale projects will create more than 2,000 local construction jobs, provide an estimated \$130 million in local tax revenues over the next 30 years and help customers avoid more than \$1.6 billion in long-term costs, says the company.

**BENEFITS:** Over the life of the solar facility, the town of Fulton and Rock County are expected to receive approximately \$6 million in combined shared revenue payments. The North Rock Solar Project relied on the skilled work of more than 100 operating engineers, carpenters, laborers and electricians from several local union halls, increasing the project's positive impact on the local economy.

**PROJECT:** IN WHAT IS LIKELY ONE OF THE MOST NORTHERN RENEWABLE ENERGY PROJECTS IN NORTH AMERICA, CANADA'S NORTHWEST TERRITORIES (NWT) GOVERNMENT AND NT ENERGY ARE BUILDING THE INUVIK WIND PROJECT, IN THE SMALL COMMUNITY OF INUVIK.

**SIZE:** The project's 3.5 MW turbine was manufactured in Germany and arrived in Hay River, NWT. The turbine was barged to Inuvik on the Mackenzie River by Marine Transportation Systems (MTS).

**BACKGROUND:** Despite challenges to the transportation of the wind turbine caused by flooding, crews were able to successfully deliver the turbine to Inuvik without sustaining damage or delaying the project.

The components of the project, which include the turbine base and blades, is being stored at the MTS facility in Inuvik while construction of the access road and other site preparation activities continue.

The Northwest Territories' relatively small population of 45,000 and expansive geography of more than 520,000 square miles contributes to the high cost of living; investment in alternative and renewable energy can reduce the reliance on diesel and stabilize the cost of power while reducing the territory's greenhouse gas emissions.

The Inuvik Wind Project includes the installation of the turbine and small battery storage system, a six-kilometre access road, and a distribution line connecting it to existing lines near Inuvik's Mike Zubko Airport.

**BENEFITS:** The Inuvik Wind project is a key initiative under the 2030 Energy Strategy and will reduce diesel consumption in the Northwest Territories' largest diesel-powered community by 30 percent—offsetting diesel consumption in Inuvik by three million litres annually. Inuvik is the NWT's largest community primarily powered by fossil fuels.