



ON THE GRID

PROJECT: EMMVEE PHOTOVOLTAIC POWER PRIVATE LIMITED HAS PROVIDED OVER 30 MW OF THEIR SOLAR MODULES TO COMPLETE INDIA'S LARGEST FLOATING SOLAR PROJECT. THE PROJECT WAS COMMISSIONED IN Q3 OF 2022, AND HAS BEEN A SERIOUS MOTIVATOR FOR OTHER RENEWABLE ENERGY COMPANIES LOOKING TO PARTICIPATE IN SIMILAR FLOATING SOLAR PROJECTS, SAYS THE COMPANY.

SIZE: 100 MW

BACKGROUND: Emmvee played a leading role in bringing India's largest floating solar project to life, says the company. The 100 MW Ramagundam Floating Solar PV project is spread over 500 acres of the Ramagundam Reservoir. Emmvee, a 30-year-old solar module manufacturer based in Bangalore, India, was selected to provide the PV modules for the project based on the company's credentials, it says. Emmvee's cutting edge solar panels and innovative engineering solutions have ensured optimal performance and efficiency of the floating solar plant. The project serves as a good example of sustainable energy integration and also showcases Emmvee's commitment to revolutionizing the renewable energy industry, says the company.

BENEFITS: The Ramagundam floating solar project gives India the ability to dramatically develop under-utilized water surfaces such as lakes and reservoirs. By using solar panels and innovative engineering solutions, this project reduced reliance on non-renewable resources in a continued effort to conserve and preserve natural resources. By showcasing the successful integration of sustainable energy, this project inspires others to adopt similar initiatives and contributes to the global transition towards a greener and more sustainable future, says Emmvee.

PROJECT: CEP RENEWABLES, CS ENERGY AND NJR CLEAN ENERGY VENTURES (CEV) HAVE CONVERTED A FORMER CONTAMINATED BROWNFIELD INTO A SOLAR PROJECT IN HOLLAND, NEW JERSEY. THE FIXED-TILT SOLAR ARRAY WAS CONSTRUCTED IN TWO PHASES ON A SITE THAT PREVIOUSLY HOUSED A PAPER MILL COMPLEX.

SIZE: 17 MW

BACKGROUND: In the 1990's, this former paper mill site was abandoned and fell into disrepair. CEP Renewables was sought out by the property owner, a company that decommissions former industrial sites, to redevelop the site. With its expertise in redeveloping contaminated brownfield sites, CEP's team reviewed the entire environmental history and provided critical review and recommendations before the completion of the remediation. This helped to significantly reduce the time needed by the New Jersey Department of Environmental Protection to issue the remedial action permit. Prior to CEP Renewables assuming control of the site, the area was remediated, deed restricted and covered with an engineering control. CEP's team enhanced the existing engineering controls to be compatible with the solar redevelopment. CEP Renewables and CS Energy also overcame several challenges, including the permitting and construction of a second phase of the project overlapping with the first. Additionally, the project had to be built around a historic farmhouse and powerhouse located on a portion of the property.

BENEFITS: The successful remediation and redevelopment of this site has transitioned this under-utilized space into a source of carbon-free, clean energy and increased tax revenue for the local municipality.

PROJECT: THE RHODE ISLAND NATIONAL GUARD HAS REDUCED ITS ANNUAL ELECTRICITY BILL FOLLOWING THE INSTALLATION OF A ROOFTOP SOLAR PROJECT ON A HEAVY EQUIPMENT MAINTENANCE FACILITY AT CAMP FOGARTY IN EAST GREENWICH, RHODE ISLAND.

SIZE: 550 kW

BACKGROUND: The installation at Camp Fogarty supports Rhode Island's 'Lead by Example' initiative, where state agencies and municipal governments lower greenhouse gas emissions and reduce energy costs across the state through investments in energy efficiency, renewable energy, and clean transportation. At Capitol Hill in Providence, three State buildings are outfitted with rooftop systems, as is the Division of Public Utilities and Carriers in Warwick.

BENEFITS: In its first 12 months of operation, the 1,364-module system, which provides energy to the repair facility where equipment like tanks, trucks and cannons are serviced and rebuilt, produced 935 kWh of clean, renewable energy. This has offset about two-thirds of the site's total annual electricity use and reduced carbon emissions by 742,000 lbs of coal burned. The Camp Fogarty system maximizes solar energy production by overcoming shading challenges from nearby trees which limit production in traditional, non-DC-optimized solutions. Additionally, the project provides highly granular, real-time information on system performance at a module level, enabling rapid fault detection and mitigation.