



ONTHEGRID

PROJECT: **BOURBON MAKER CASTLE & KEY DISTILLERY, A LEADING PRODUCER OF KENTUCKY'S CRAFT SPIRITS, HAS COMPLETED PHASE 1 OF A MAJOR SOLAR ENERGY PROJECT.**
SIZE: The first phase of the project covers 20,950 square feet and features 754 solar panels, generating 400 kW AC. When completed, the entire system will cover 63,350 square feet, generating 960 kW AC.
BACKGROUND: With this investment, the distillery says it is further solidifying its commitment to renewable energy, harnessing solar power across more than an acre of space, while continuing to produce high-quality spirits. The $2 million project was supported by a Rural Energy for America Program (REAP) Grant, a federal initiative aimed at helping rural small businesses transition to renewable energy sources, reduce energy costs, and enhance American energy independence. Castle & Key's ground mount solar energy system is installed at the distillery's Versailles Warehouse in Woodford County, Kentucky, and is designed to provide a substantial portion of the distillery's energy needs. Phase 2 of the solar project is expected to begin this spring. With its stunning site dating back to 1887, the distillery is known both as the birthplace of bourbon hospitality and for the high-quality Kentucky spirits made there today.
BENEFITS: This solar energy initiative by Castle & Key reduces the distillery's carbon footprint, lowers energy costs, and reinforces the company's commitment to responsible innovation. The company is using 25 percent of the total solar production capacity. The remaining excess power is sold back to Kentucky Utilities as a green power source for the community to power homes, businesses and facilities. On average, this will equate to 270 to 350 homes in the community based on average power usage.

PROJECT: **RIO TINTO'S DIAVIK DIAMOND MINE HAS COMPLETED INSTALLATION OF ITS SOLAR POWER PLANT IN CANADA'S NORTHWEST TERRITORIES. THE PROJECT REPRESENTS THE LARGEST OFF-GRID SOLAR POWER PLANT ACROSS CANADA'S TERRITORIES.**
SIZE: The 3.5 MW, 6,620-panel facility is expected to generate 4.2 million kilowatt-hours of solar energy annually.
BACKGROUND: The solar project complements a wind power plant at Diavik, which has been operating since 2012 and is the largest wind power installation in Canada's North, having generated over 195 million kilowatt-hours of electricity since activation. Construction of the solar project began in February 2024, contracted to Whitehorse-based Solvest Inc. and the Indigenous-owned Tlicho Investment Corporation, with support from Diavik. Approximately 30 percent of the construction workforce came from the Tlicho Investment Corporation
BENEFITS: The solar power plant will provide up to 25 percent of Diavik's electricity. The facility is equipped with bi-facial panels which not only generate energy from direct sunlight, but also from the light that reflects off the snow that covers Diavik for most of the year. It will reduce diesel consumption at Diavik by one million litres per year and cut greenhouse gas (GHG) emissions by 2,900 tonnes of CO2 equivalent. This is comparable to removing 630 cars from the road each year.

PROJECT: **ATLANTA MOTORSPORTS PARK (AMP), A PREMIER MOTORSPORTS CLUB IN GEORGIA RENOWNED FOR ITS F1-STYLE ROAD COURSE AND THRILLING KARTING COURSE, HAS BUILT A LARGE SOLAR FARM AT ITS FACILITY.**
SIZE: Located in Dawsonville, Georgia, the AMP campus is adding solar power through an array of 747 panels, generating 480 watts per panel, for a total of 358 kW. That's enough energy to power nearly 300 homes.
BACKGROUND: This investment follows AMP's work on sustainability with the recent addition of EV chargers: 10 Level 3 DC Superchargers, and 8 Level 2. Coupled with all-LED lighting, its solar powered CCTV/Signs, on site water/wastewater treatment, and efficient fixtures, all show AMP's commitment to making a positive environmental impact.
BENEFITS: The AMP solar installation powers about 60 percent of the campus's daily operational needs with renewable energy. It is connected to five buildings including the karting facilities and the park's newly constructed, member-exclusive Sky Deck. With the help of consultants at Hannah Solar, the project was able to recoup 50 percent of its total costs using a U.S. Department of Agriculture (USDA) Rural Energy for America Program Renewable Energy Systems, or REAP, Grant. The solar energy configuration was supplied by Hannah Solar, an Atlanta-based solar installation and maintenance firm. Hannah Solar acquired panels for AMP that were manufactured locally by Hanwha Q. Cells at their Dalton, Georgia fabrication plant. The array also makes use of SolarEdge inverters, in addition to racking hardware by Ironridge and Panelclaw.