



ON THE GRID

PROJECT: ARDAGH GLASS PACKAGING-NORTH AMERICA, A LEADING PROVIDER OF GLASS PACKAGING SOLUTIONS, HAS COMPLETED A SOLAR PROJECT THAT WILL SUPPLY ITS MADERA, CALIFORNIA WINE BOTTLE FACTORY FACILITY WITH CLEAN ENERGY.

SIZE: 13 MW

BACKGROUND: The Madera solar field, built, owned and operated by Longroad Energy, will deliver renewable energy to Ardagh's glass manufacturing facility, accounting for approximately 20 percent of the facility's electricity demand. In collaboration with Longroad, partners that were involved in the project include First Solar, Valta Energy, McCarthy Building Companies, Nevados and A-C Electric Company.

BENEFITS: The solar power project in Madera reinforces Ardagh's commitment to sustainability, said Brian Brandstatter, president and CEO of Ardagh Glass Packaging-North America. "By enhancing our sustainability efforts, we are ensuring long-term value, reliability and cost-effective solutions for the brands that rely on us. This initiative underscores our dedication to being a responsible and forward-thinking glass container manufacturer in California." Ardagh says it is committed to adding renewable energy in the regions in which it operates to further reduce its carbon footprint. In 2019, Ardagh partnered with KDC Solar on a state-of-the-art 5.5 MW solar field at Ardagh's Bridgeton, New Jersey, glass production facility.

PROJECT: THE ORION SOLAR BELT, ONE OF THE LARGEST SOLAR PROJECTS IN THE U.S., OPENED IN TEXAS RECENTLY, BACKED BY WHAT GOOGLE SAID IS THE LARGEST SOLAR ELECTRICITY PURCHASE IT HAS EVER MADE.

SIZE: 875 MW

BACKGROUND: SB Energy has built three solar farms side by side, the Orion Solar Belt, in Buckholts, Texas. Combined, they will be able to provide 875 megawatts of clean energy, which it says is nearly the size of a typical nuclear facility. The project has a total of 1.3 million solar panels, and will power Google's data centers in Dallas. SB Energy said most of the solar farm components are made in the U.S.

BENEFITS: Google will use about 85 percent of the project's solar power for its data centers in Ellis County and for cloud computing in the Dallas region. In Ellis County, Google operates a data center campus in Midlothian and is building out a new campus in Red Oak. The rest of the solar power will go to the state's electrical grid. In total, Google has contracted with clean energy developers to bring more than 2,800 megawatts of new wind and solar projects to Texas, which it says exceeds the amount of power required for its operations there. The company says it has a responsibility to bring renewable, carbon-free electricity online at the same time it opens operations that will use that power. The Orion Solar projects span 5,000 acres, and involve 27 different landowners, with the company leasing land, and bringing landowners new economic revenue streams. Thousands of sheep graze in the area, maintaining the vegetation around the solar arrays.

PROJECT: SILICON RANCH HAS ENERGIZED THE FIRST UTILITY-SCALE SOLAR PROJECT—THE SCOTFORD SOLAR FARM—IN THE PROVINCE OF ALBERTA'S INDUSTRIAL HEARTLAND, IN CANADA.

SIZE: The 58-megawatt facility is said to be the largest behind-the-meter solar project in Canada.

BACKGROUND: Silicon Ranch, one of the largest independent power producers specializing in solar energy, agrivoltaics, battery storage, and carbon solutions in the U.S., says that its Scotford Solar Farm has now reached commercial operation near Edmonton, Alberta. The 58-MW facility has the ability to supply Shell's Energy and Chemicals Park, Scotford with enough renewable energy to power approximately 20 percent of the refinery's energy needs for the next 25 years and provide 100 percent of its electricity needs at peak capacity. The project is a first for Silicon Ranch, as it is the first international solar project for the company.

BENEFITS: Silicon Ranch will own, operate and maintain the solar facility and care for the land throughout the project's lifecycle. This distinguishing characteristic of its business model underscores the company's long-term commitment to the partners and communities the company serves, it says. One of the company's guiding principles is that it is only successful when its partners are successful, and the Scotford Solar Farm represents a successful outcome for their partners at Shell Canada and its partners in Strathcona County, said Reagan Farr, Silicon Ranch Co-Founder and CEO. "This project not only supports Shell's economic and operational goals, but also catalyzed our own significant capital investment in the community, and as the long-term owner of this facility and the land it occupies, Silicon Ranch will contribute critical tax revenues to help fund government-identified priorities for decades to come."