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Courtyard by Marriott-Lancaster Solar Project Facts

- Project** First U.S. Marriott hotel to be fully powered by the sun. (Marriott operates 5,700 U.S. hotels.)
- Timeline** Installation: June through August 2018; commissioning: September 2018.
- Installation** The solar array is a one-megawatt (AC) rooftop-mounted assembly that will produce approximately 1.2 million kilowatt hours of electricity each year.
- Developer** High Hotels Ltd. in conjunction with High Real Estate Group LLC, High Associates Ltd., and High Properties.
- Owner** Solar array - High Hotels Ltd.; warehouse - High Properties - 1853 William Penn Way, Lancaster, Pennsylvania.
- Customers** High Hotels Ltd. Courtyard-Lancaster, a five-story, 133-room, award-winning hotel located at 1901 Hospitality Drive, Lancaster, Pennsylvania. Annual historical hotel power consumption is 1,177,000 kWh; any additional electricity produced will be sold to the utility, PPL.
- Site** Located on the roof of a warehouse at 167 Greenfield Road, Lancaster, Pennsylvania, the 135,200-square-foot project is larger than two football fields. The rooftop location saves more than three acres of open land and has additional aesthetic benefits.
- Solar panels** Approximately 2,700 340-watt Hanwha Q CELLS solar modules with an expected service life of 40 years. Panels are 77"x39"x1.5".

Inverters Manufactured by SMA (OTC: SMTGF), model Sunny Tripower CORE1 50KW 480VAC free-standing PV inverter.

Mounting Fixed-tilt, roof-mounted aluminum racking from ecolibrium.

Contractor MVE Group, Inc., Ephrata, Pa.

Jobs created Approximately 12 construction, electrical, and other jobs will be created at the site.

Financing High Hotels received a grant of \$504,900 from the Commonwealth Financing Authority (CFA) through the Solar Energy Program. Additional project financing was arranged through M&T Bank.

Hotel Five stories, 133 rooms, constructed in 2004.

EPA CALCULATOR

Equivalency Results [How are they calculated?](#)

The sum of the greenhouse gas emissions you entered above is of Carbon Dioxide Equivalent. This is equivalent to:

922 Metric Tons

Greenhouse gas emissions from



CO₂ emissions from





EXHIBIT 1-K

<https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator>