

Spackenkill Union Free School District

Power Purchase Agreement (PPA)



Spackenkill Union Free School District (“District” or “SUFSD”) is located in Poughkeepsie, New York in the western part of Dutchess County. The District, established in 1866, has 4 schools and serves more than 1,500 students in grades Kindergarten through 12. In order to reduce its energy costs and its impact on the environment, SUFSD partnered with Con Edison Solutions to execute a 25-year Power Purchase Agreement (PPA).

Con Edison Solutions developed an innovative, long-term sustainability solution by designing and installing a roof-mounted PV system totaling 718.4 kW DC. The system is installed at the following SUFSD facilities:

- **Spackenkill High School** -
Roof mounted 170 kW DC PV System / 137 kW AC
- **Todd Middle School** -
Roof mounted 292.4 kW DC PV System / 250 kW AC
- **Hagan Elementary School** -
Roof mounted 148 kW DC PV System / 172 kW AC
- **Nassau Elementary School** -
Roof mounted 108 kW DC PV System / 84 kW AC

The PV system is fully designed, constructed, permitted, owned, and operated by Con Edison Solutions. Con Edison Solutions successfully completed the project within schedule and budget. In addition, Con Edison Solutions met the District’s goals of reducing energy costs, maximizing positive cash flow to the District, collecting and managing the PV system information in real time, and minimizing financial and technical risk. As a result, the District is estimated to save more than \$15,000 a year in electricity costs.



PROJECT DATA

CONSTRUCTION DATES

Construction start: 7/1/2020

Construction end: 9/25/2020

COD: 12/10/2020

SYSTEM SIZE

733.8 kW DC totaling 1,457 panels across 4 district facilities

IMPLEMENTATION COST

\$1,625,000

TECHNOLOGY

Jinko Mono PERC Half Cell Solar Module (Eagle 72HM G2) – 405W

Model JKM405M-72HL-V

ENVIRONMENTAL BENEFITS

CO2 Offsets: 863.8 tons of CO2 annually.

CO2 Equivalents: 169.4 cars removed from the road annually.