



**Service/Product Provider**

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**Industrial Partner**

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**Dome-Tech installs 1.6 MW DC solar power tracking system at Merck to reduce CO<sub>2</sub> emissions**

**Project Scope**

Dome-Tech installed a 1.6 megawatt solar photovoltaic (PV) system at Merck's corporate headquarters in New Jersey – with no capital investment by Merck.

**Project Summary**

Dome-Tech worked with SunPower to install 7,000 solar panels on 7 acres of land at Merck's headquarters site, resulting in production of 2.5 million kWh of electricity per year. Solar power tracking capability was also installed to maximize electricity production. Dome-Tech located and obtained financial incentives from the New Jersey Clean Energy Program, the U.S. Federal Solar and Renewables Tax Credit Program, and the Readington Township, NJ Planning Board. The PV system is owned and operated by Dome-Tech for Merck under a 20-year power purchase agreement (PPA).

- **Energy Savings**  
Annually, Merck will reduce the amount of electricity purchased from the power grid by an amount equal to that produced by the PV system
- **Investment**  
No capital investment by Merck – PPA financed by UTC Power, the parent of Dome-Tech
- **Financial Return**  
Project justified by PPA
- **Other Benefits**  
2.5 million kWh of electricity produced per year by the PV system reduces carbon dioxide emissions by approximately 1,200 tons annually

**Monitoring & Verifying Energy Savings**

M&V instrumentation was installed to allow Merck to monitor solar power production.

**Distinguishing Value**

Dome-Tech's customer-centered relationships, good-faith history, and innovative solutions streamlined project execution and led to results that benefit both Dome-Tech and Merck.