

# Merck Upper Gwynedd Solar Project



## Summary:

Merck will install a 1,500-kilowatt fixed panel solar photovoltaic system above the existing parking garage while maintaining existing parking capacity at our Upper Gwynedd campus. The system will tie into the site's electrical distribution system and have the ability to export electricity to the local utility grid when generation exceeds the site's needs. The project will also install plug-in hybrid / electric vehicle recharging stations.

Artist's Rendition courtesy of Ballinger, Philadelphia, PA

## Details:

Location: 351 North Sumneytown Pike, North Wales, PA 19454-2505  
System capacity: 1,500 kW (1.5 MW) delivering ~1.695 million kWh / year or 14% of the site's electrical needs  
System size: ~164,000 square feet, above existing parking garages  
PV panels: ~6,400 crystalline panels fixed at a 10° angle  
Charging Stations: Design in progress  
System Components: Made in USA

## Total Project Cost:

Commonwealth Financing Authority (CFA)	\$11,000,000
Department of Community and Economic Development Grant	\$1,000,000
PA Department of Environmental Protection Green Energy Works! Solar Grant (funded through ARRA – American Reinvestment and Recovery Act)	\$875,000
Merck Sharp & Dohme, Corp., a wholly owned subsidiary of Merck & Co., Inc.	\$10,125,000

## Timeline:

Aug 2010 Panel and inverter installation begins  
Nov 2011 Charging station installation begins  
Feb 2011 Electricity delivered to site

## Project Partners:

Ballinger (Architectural Engineers), Philadelphia, PA  
Commonwealth Financing Authority  
Dome-Tech, Inc. (Energy Consulting Services), Edison, NJ  
PA Department of Environmental Protection  
Skanska USA (Construction Management), Blue Bell, PA