



DuPont is a leading materials supplier to the Photovoltaic (PV) industry, with more than 20 years of experience in PV materials development, applications know-how, manufacturing expertise, and global market access. DuPont Photovoltaic Solutions leverages DuPont science from across the company on a global scale to help support the dramatic growth in this industry with its comprehensive portfolio of innovative materials and services.



*Touchscreen kiosk in lobby of the building
Photo Credit: WorldWater Corp.*

DuPont provides eight of the most critical materials currently used in the industry for PV module production including films, resins for encapsulants, encapsulant interlayers, and conductive pastes. These innovative materials from DuPont enable solar modules to run more efficiently and last longer, making the use of alternative energy easier for everyone.

DuPont
Wilmington, Delaware



DuPont photovoltaic installation

Photo Credit: WorldWater Corp.

For 20 years DuPont has demonstrated a firm commitment to support the solar energy industry with innovative products, and now with a 45 kw photovoltaic installation at the Chestnut Run facilities in Wilmington, Delaware. The centerpiece of the installation is Heliotronics' touchscreen kiosk in the main lobby of the building. The kiosk includes over 45 pages of real time data and educational information about solar energy. Data displays include real-time solar power production, avoided emissions, system efficiency, and weather data.

"The Heliotronics monitoring system and kiosk are integral parts of our photovoltaic product display and learning center at the Chestnut Run facility. The kiosk allows us to present solar energy information in a fun and interactive way without overwhelming those that are seeing PV for the first time".

-Tom Earnest, Global Venture Manager, DuPont Photovoltaic Solutions

Corporations and the financial community are finding that being green can be good business. Like DuPont, large companies are starting to install trophy PV arrays at their headquarters and other facilities. They substantially raise the profile of the system by feeding data into fun kiosk displays in their lobbies and / or feeding the data to internet displays that can be linked to from their web site. Heliotronics was selected for the DuPont installation due to the quality and usability of the display.

A new buzzword in the investment community is decarbonization, reducing use of carbon-based energy for production and operations. Recent research has shown that forward looking companies are better performing investments, and that an active decarbonization program is a strong indicator of a progressive, forward-looking corporate culture. An instrumented trophy array provides an effective way to call attention to the corporation's de-carbonization efforts, potentially adding to shareholder value. Additionally, good corporate citizenship aids in community relations and, can increase customer loyalty and the perception of quality of the brand.

The effectiveness of monitoring as a promotional tool can be aided in a variety of ways. It is critical that public education and awareness displays be designed for the purpose of teaching. Operations and maintenance displays that are designed "by engineers, for engineers" are not as effective for education. When it comes to public education and awareness, Heliotronics offers an excellent set of tools that ensures the investment in a solar array will pay dividends for years to come.

Project Snapshot

Data Monitoring System: Heliotronics Becquerel 3P™ Package

Monitoring System Specs: Monitors real-time PV power and energy output, system efficiency, avoided emissions, irradiance, PV module temperature, ambient temperature and wind speed

User Interface: Heliotronics' SunViewer™ educational display software running on a touch screen kiosk

PV Installation: (270) GE Energy PV173 solar modules, Xantrex PV45208 inverter

PV System Capacity: 45 kW (grid-connected)

PV Mounting: Ground mounted

Installation team: WorldWater and Power Corp.



SunViewer™ Display Software

DuPont has made a corporate commitment to have at least 10 percent of its power produced by renewable energy sources by 2010, some of which will be supplied through solar panel technology. Today, over five percent of its power is produced by renewable energy sources.

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