

## Manhattan's Largest BIPV System Whitehall Ferry Terminal – New York City



80 Facade Modules - 188 Canopy Modules  
40 kW DC peak power

### **BIPV Solar Rejuvenates NYC's Whitehall Ferry Terminal**

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Sunlight pours through solar glass panels into the landmark Whitehall Ferry building, whose renovation was interrupted by 9/11 and is now complete.

Photo: Atlantis Energy Systems

"Atlantis Energy Systems is proud to work with NYC to bring the benefits of clean, reliable solar power to all New Yorkers and everyone who loves NY."

-- Joe Morrissey, Atlantis Energy Systems, national sales manager

Sacramento, California [RenewableEnergyAccess.com] More than 20 million commuters and tourists who pass through Manhattan's Whitehall Ferry Terminal each year to ride the Staten Island Ferry can witness the landmark's new solar status using a building integrated photovoltaic (BIPV) system. Atlantis Energy Systems, manufacturer of custom photovoltaic (PV) glazing and roof systems, announced the commissioning of what is said to be Manhattan's largest BIPV project to date.

For the Whitehall Ferry Terminal, 288 solar electric glass panels -- manufactured at Atlantis's two factories in Poughkeepsie, NY, and Exmore, Virginia -- form the exterior of the terminal's facade

and canopy. The 40 kW solar electric arrays will produce annually 52,000 kWh of clean, reliable power for the building. The design, covering more than 8,000 square feet, generates electricity and allows sunlight to stream through the canopy panels, providing daylight to interior areas.

The installation process, which was interrupted by the events of 9/11, was performed by W.W. Glass and 5 Star Electric, both of New York. Magnetek Aurora and SMA Sunny Boy inverters were used to complete the project.

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The Terminal, a NYC icon, was originally constructed in 1907 and rebuilt in 1954. It experienced a fire in 1991 that damaged the roof canopy. A decision made by the Terminal's owners -- the NYC Economic Development Corporation and the Port Authority of NY/NJ -- was to renovate the structure to respond to concerns about energy stewardship by making the south-facing building facade and canopy out of energy-producing solar-electric construction materials.

"Over its life, the system will eliminate the production of 800 tons of the most significant green house gas, carbon dioxide", said Jerry Sorgento of New Jersey based New Age Solar who commissioned the system for the owners. New Age Solar will be installing a power production monitoring system that will allow people to see online how much energy the system creates.

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