



## Massachusetts Institute of Technology Cambridge, Massachusetts

The mission of MIT is to advance knowledge and educate students in science, technology, and other areas of scholarship that will best serve the nation and the world in the 21st century.

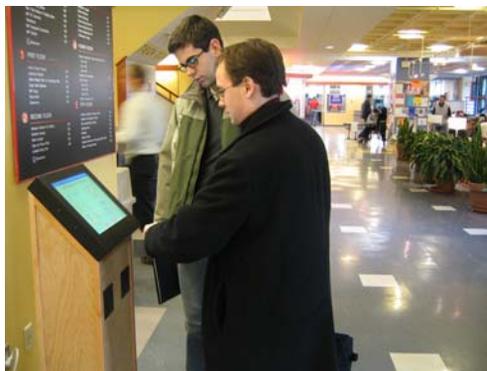


*Photovoltaic installation at MIT's Stratton Student Center*

### Background

The MIT Community Solar Power Initiative, is a project funded by a generous grant from the Massachusetts Technology Collaborative (MTC). MIT has been awarded funds that will provide the incentives for 75 kilowatts of solar power. Approximately 20 kW will be installed on the MIT campus, and 55 kW will be made available to homeowners and businesses.

MIT installed the Heliotronics Becquerel 3P™ data acquisition package with a touch screen kiosk in the lobby of the Stratton Student Center. The Solar Learning Lab™ display kiosk presents real-time output from the 6.6 kilowatt photovoltaic installation. Students and visitors walking through the student center can learn more about solar energy and MIT's commitment to clean energy. The system was installed by MIT electricians who enjoyed learning about the practical installation of solar energy technologies.

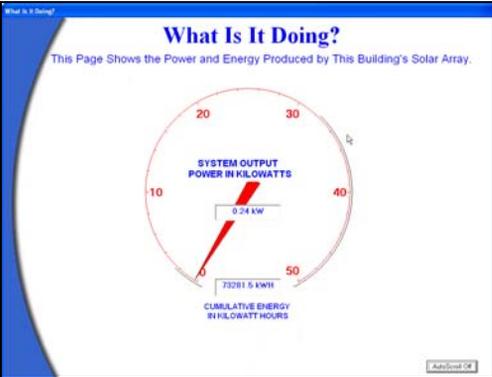


*Solar Learning Lab™ touch screen kiosk at MIT's Stratton Student Center*

The Institute is committed to generating, disseminating, and preserving knowledge, and to working with others to bring this knowledge to bear on the world's great challenges.

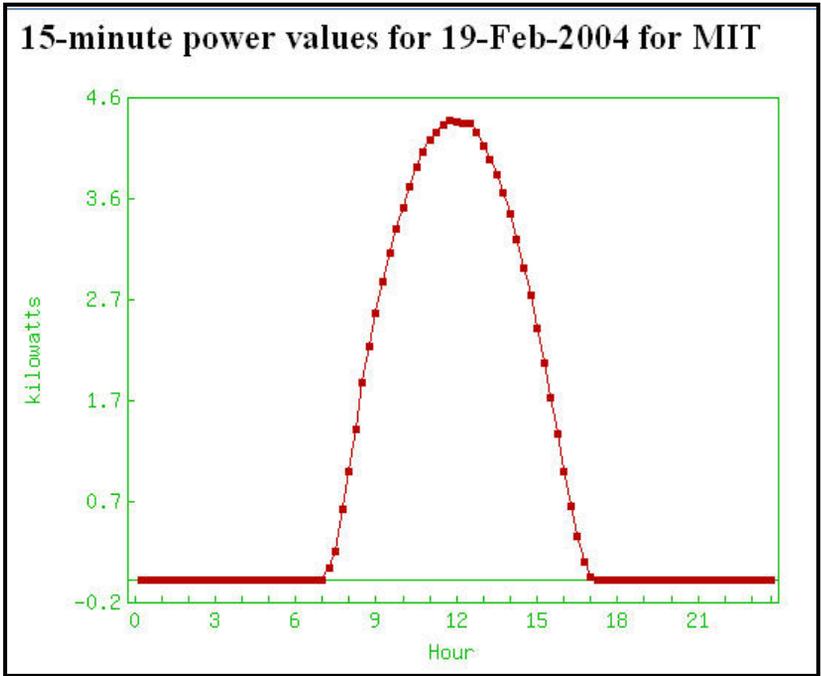
MIT's interest in hosting this solar project is to demonstrate alternative energy options on campus, to help raise the MIT community's awareness of these alternatives, and gain practical experience with their installation and operation. To further these activities, MIT organized a ribbon cutting press event, speakers, tours, and solar energy workshops.

It is hoped that this exposure to the MIT community will lead to opportunities for MIT research to advance the state of the art in manufacturing, installing and operating solar power equipment and systems.



Sample screenshot from Heliotronics real-time SunViewer™ display software

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Power plot from Heliotronics SunViewer.net™ web database

**Project Snapshot**

*Data Monitoring System:* Heliotronics *Becquerel 3P™* Package

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

*Local User Interface:* Touch-Screen Kiosk with *SunViewer* educational display software

*Remote User Interface:* *SunViewer.net™* web enabled data monitoring.

*PV System Capacity:* 6.6 kW AC

*Estimated Annual Energy Production:* 8500 kWh

*PV Modules:* 24 ASE-300 modules from RWE Schott

*Installation team:* MIT Department of Facilities

