

PRESS RELEASE

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For Immediate Release

CALMAC THERMAL ENERGY STORAGE TECHNOLOGY USES ICE TO COOL US/CHINA ENERGY EFFICIENCY PROJECT

Thermal Energy Storage (TES), best described as, Off Peak Cooling (OPC) has been chosen as the air-conditioning technology for an energy efficient, green-building demonstration project in Beijing, China.

This project represents a historic collaboration between the US Department of Energy (DOE) and the Chinese Ministry of Science and Technology (MoST). Named ACCORD-21, the enterprise includes products that were determined, by a DOE sponsored in-depth technical analysis, to represent the best of available American technologies and design strategies for environmental friendliness, cost effectiveness and energy efficiency.

Off Peak Cooling (OPC) was selected on the basis of its ability to help improve energy efficiency and significantly reduce electric demand charges over conventional air-conditioning systems to reduce operating costs.

Both traditional air conditioning systems and OPC systems cool buildings by using fans to blow air past cooling coils that contain a chilled fluid. However, unlike traditional air-conditioning systems that use compressors to chill the fluid when the cooling is needed, OPC chills the fluid by moving it through the stored cooling in the form of ice. Off Peak Cooling is a cost saving, space cooling alternative because it uses nighttime-produced electricity to generate all or a portion of the next days cooling requirement in the form of ice. Since nighttime electricity is produced more efficiently at night, it therefore costs less to use and causes less greenhouse gas emissions.

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Energy Efficient Project
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Slated for completion by October 2003, the 130,000 square foot ACCORD-21 building has such a high energy-efficient rating that it will be cooled with the use of only three Calmac Ice Bank[®] tanks and a 100 ton chiller. Off Peak Cooling is a key component of the cooling strategy that enables the project planners to downsize the chiller plant, reduce grid connection charges and significantly lower operating costs.

“The facility will house two key green technology and sustainable development agencies of MoST, as well as a green building technology demonstration and training center,” stated Dr. Abraham Haspel, US Department of Energy Deputy Assistant Secretary in charge of Energy Efficiency and Renewable Energy. “We believe this project will catalyze a green revolution in Chinese commercial building construction.”

Calmac Manufacturing Corporation is a leading developer and manufacturer of Thermal Energy Storage systems for off peak cooling. For more information on Calmac or on any of its Thermal Energy Storage products, contact Calmac Manufacturing Corporation, 101 West Sheffield Avenue, Englewood, NJ 07631. Their telephone number is (201) 569-0420, or you can visit their web site at www.calmac.com.

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