

## NEWS



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## **CARRIER CHILLERS CHOSEN FOR FIRST CHINESE GOVERNMENT GREEN BUILDING**

BEIJING, May 2, 2002 – Carrier Corporation has been chosen to participate in a collaborative project of the Chinese government and the U.S. Department of Energy (DOE), to demonstrate how designing a truly “green office building” can reduce energy usage and greenhouse gas (GHG) emissions for building owners.

The American-Chinese Coalition Organized for Responsible Development in the 21st Century (ACCORD21) sought leading construction and design technologies for this “green building” project. As a result, two 100-ton Carrier screw chillers (30HXC100), using environmentally sound, non-ozone depleting R-134a refrigerant, will be installed in the new, eight-story, 130,000 sq. ft sustainable energy office building and demonstration center being constructed in downtown Beijing. The chillers will make and store up to 50 tons of ice per night, which in turn will be used to cool the building during the day.

"We chose Carrier chillers because the project's mission is to demonstrate how to reduce atmospheric pollution through high energy efficiency and with no ozone depletion potential," said Robert Watson, a senior scientist with the Natural Resources Defense Council (NRDC), which is coordinating the project on behalf of the DOE and China's Ministry of Science and Technology (MoST).

“We’re very pleased to provide high efficiency, non-ozone depleting equipment for such an important building,” John Mandyck, Carrier’s vice president of International and Government

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Relations, said. “This installation represents one example more in Carrier’s proud history of serving China’s most important buildings, including the Great Hall of the People.”

Once completed in 2003, the green office building will be fully monitored to track energy consumption, savings, and GHG reductions resulting from its integrated efficiency and renewable technology and design strategies. The facility’s Technology Demonstration Center will exhibit energy efficient technologies and design strategies for the entire building industry. The building will also house the offices for the Administrative Center for China’s Agenda 21 (ACCA21) – which is coordinating the Chinese side of the project with the MoST – and other government departments.

According to DOE’s Deputy Assistant Secretary, Dr. Abraham Haspel, the energy savings provided by this building is “enough to supply the needs of 90 to 130 Chinese families every year.”

“We will be able to apply the lessons learned from this project to China’s new commercial building energy standard now under development by the Ministry of Construction, as well as contribute to making buildings built for the 2008 Beijing Olympics the greenest ever,” Haspel said.

With the support of both the Chinese and American governments, the new green building is expected to be a watershed for the Chinese construction industry, ACCORD21’s website ([www.accord21.org](http://www.accord21.org)) says. The monitored energy savings and GHG reductions, once evaluated and disseminated throughout China and globally, will assist buildings industry manufacturers in documenting energy savings for “energy service contracts” or assessing the GHG emissions reductions from similar projects.

The facility’s Technology Demonstration Center is expected to become an important element in the curriculum of China’s major educational and design institutions affiliated with the buildings sector. Each year thousands of practicing and future building industry professionals and decision makers from China and around the world will tour the facility and participate in training and educational programs, ACCORD21’s website says.

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The green building project began in 1998, when the MoST and the DOE signed an historic statement of work committing to the development of plans for the construction of a sustainable energy office building and demonstration center which could also measure energy savings and related GHG emissions.

China assumed the land and “base building” costs, while the U.S. sponsored an in-depth technical analysis to identify energy efficiency and renewable energy opportunities and established their cost-effectiveness and technical feasibility. ACCORD21 was created to coordinate the final design and implementation of the sustainable energy and green building features of the project. Construction on China’s green building broke ground on February 28, 2002.

ACCORD21 will help develop a protocol for quantifying GHG reductions. This protocol is expected to serve as a model for evaluating emissions reductions from building projects worldwide as they pertain to future international GHG reductions regimes.

For more information on Carrier, visit the company’s web site: [www.carrier.com](http://www.carrier.com); e-mail [contact.carrier@carrier.utc.com](mailto:contact.carrier@carrier.utc.com); or call 1-800-CARRIER.

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