

New-energy automobiles will be put into use during the Universiade.

LIANG XU / XINHUA

A high-tech, green Universiade

NEW MATERIALS TO SHELTER ATHLETES FROM THE HEAT WILL BE USED

By TANG ZHE
CHINA DAILY

SHENZHEN — As the 26th Universiade nears, the South China city of Shenzhen will present not only a sports extravaganza, but also a high-tech, green and eco-friendly event to the world.

Located in the Longgang district, the Universiade Center comprises the main stadium, main gymnasium and the natatorium, like three crystal stones studied alongside the Universiade village. While the crystals not only have a brilliant appearance, they also boast many athlete and fan-friendly functions.

The Universiade will be held from Aug 12 - 23, the hottest time of the year in Shenzhen. To shelter the athletes from the heat, the surfaces of the three venues at the Universiade Center have been built with cavity structures, with XIR laminated glass and polycarbonate sheets forming the inside membrane, and a fiber-glass tensile fabric membrane designed outside, Xinhua News Agency reported.

The energy-saving XIR laminated glass has a low-reflective quality, allowing greater than 70 percent visible light transmittance, but is at the same time able to screen 99.8 percent of infrared

and ultraviolet rays. The heat generated between the two membranes will be dispersed through a sophisticated ventilation system.

The 'breathing walls' of the three crystals will help create a comfortable environment for the athletes without a great deal of air-conditioning.

Also, the outdoor area of the Universiade Center is made of pervious concrete, whose permeability coefficient reaches 3 millimeters per second. The water collected by the criss-cross drains under the ground will be used to supplement the artificial lake or stored for irrigation.

To reduce exhaust emissions around the city, 2,011 new-energy automobiles will be put into use during the Universiade, taking up more than 52.8 percent of the whole transportation demand during the games.

The automobiles comprise 1,370 hybrid buses (including 20 double-decker buses), 253 electric buses, 26 medium-sized electric buses, 300 electric taxis and 62 fuel-cell vehicles (including two buses).

The new-energy vehicles will be distributed to 77 new-energy bus lines during the Universiade to cover all 44 venues around the city, which will also help to

form the city's new-energy public transportation network.

As the infrastructure network operator for new-energy automobiles of the Shenzhen Universiade, Chinese company Potevio has built 57 charging stations with 850 charging areas around the venues.

To reduce electricity consumption in energy-demanding August, the technology of storing ice will be used at the Shenzhen Bay Sports Center gymnasium, which is dubbed the 'Spring Cocoon' due to its resemblance to a silkworm cocoon.

Water will be frozen at night during off-peak periods and then thawed for cooling during the day when power demand is at its highest. This should theoretically allow the AC-hungry venues to cut energy costs by shutting down air conditioners while still providing cool air to the building from the melting ice.

This technology should cut the energy consumption of the 'Spring Cocoon' by 30 to 40 percent, and should save about 20 percent in running costs.

Also, air disinfection systems will be installed at Shenzhen Bay Sports Center to block airborne diseases. It will be the first time China has used such a system at one of its sports venues.

Say hello to 'UU'

By QIU QUANLIN
CHINA DAILY

SHENZHEN — The smiling face that will welcome visitors to Shenzhen for the 26th Summer Universiade is "UU" — a cartoon figure derived from the games' logo.

The mascot was designed by a Shenzhen graphic arts team, which says UU is a break from tradition.

"It embodies nothing specific," said Wang Yuefei, one of the five designers of the mascot. "But it is vibrant and energetic."

The mascot symbolizes the open, friendly and tolerant spirit of the Universiade, Wang said.

Zhao Jian, vice-dean of the Guangzhou Academy of Fine Arts, agreed the image is innovative.

"The mascot is not a human, nor an animal or plant. It is a brave design created by local designers," said Zhao. "With a geometric and abstract image, the mascot can also be reproduced as toys in different materials or in graphics or can be used in animation."

The winning design was chosen from more than 2,000 entries — 30 of which came from the United Kingdom, France, Japan and Australia — submitted to the Shenzhen Universiade organizing committee early last year.

Most of the designs closely followed the concept of "Happy U", the official logo of the Universiade Shenzhen 2011 that was unveiled in 2008.

The logo is made up of three parts: colored dots in the shape of a semicircle at the top, the words Universiade Shenzhen 2011 in the middle and five stars at the bottom.

The five stars represent the logo of the International University Sports Federation, organizer of the Universiade, which is held every two years.

The logo's red, green, yellow, blue and black dots comprise the letter "U", which designers say symbolizes the open, friendly and tolerant spirit of the Universiade.

Along with the official logo and mascot, the organizers have chosen "Start Here" as the slogan for Universiade Shenzhen 2011.

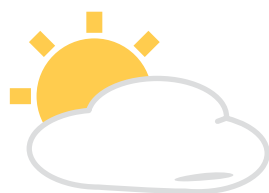
"The slogan 'Start Here' shows the value of Shenzhen as a pioneer city in China's participation in globalization," said Shenzhen Vice-Mayor Liang Daoxing. "It also shows the status of Shenzhen as the vanguard of China's reform and opening-up policy."



CHEN WEN / CHINA NEWS SERVICE

'U Station' is the service center for people from home and abroad during the Universiade.

WEATHER CENTRAL >> FORECASTS, TEMPERATURES AND TODAY'S CHANCE OF RAIN



Today's forecast
Partly Cloudy
Max **36°C**
Min **29°C**
Source: weather.com

