

Our Green Home

—Green campus construction

Since 2003, Tongji University has launched the construction of economical campus. After several years of effort, the style of saving formed gradually and finally the energy-saving system of technology, management and publicity was built in our university.

The Comprehensive Project of Bathroom Energy Conservation

There are many kinds of energy-saving technologies used in this project.

Firstly, the heat of intelligence central heating system is from the solar energy which is known as a kind of clean energy. Then, the bathroom uses reclaimed water technology to treat the bathing wastewater. Through



Fig1. Solar Energy Collectors



Fig2. Wetlands

adopting combined process of membrane bioreactor (MBR), the treated water can be serve as green water and landscape water. Apart from, heat exchange pool is also set in the bathroom which can make the best of the waste heat to provide warmth to fresh water.

Experimental Projects of Constructed Wetlands

Large areas of wetlands can be seen in the river. Adsorbing packing is laid under the road on which there are soil and plants. All these have an obvious effect of filtration and purification to the sewage, and then ensure the sustainable utilization of resources. The wetlands are also one of the education bases for science and energy saving.

Teaching and Research Comprehensive Building

The Teaching and Research Comprehensive Building set teaching and research in one. The main construction plane is a square. there are several kinds of Energy-saving measures taken in this building such as ice storage system, green ecological ventilating system, vertical central ventilation system, displacement ventilation and air conditioning system of seat-air-supply, Variable Frequency Water Supply System and so on.



Fig3. The Comprehensive Building

Lawn Energy Saving Measures

Lighting of the great lawn in front of teaching building is from energy-saving lighting lamps such as rear-projection WHN and capacitance metal halide lamp. These energy-saving lighting lamps can lower about 20%

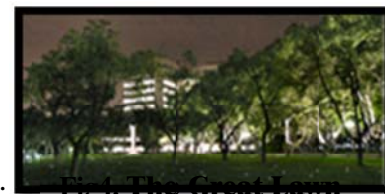


Fig4. The Great Lawn

energy-saving lighting lamps compared with ordinary ones. Street lamps are set to turn on five hours every day and parts of these lamps are turned off automatically after midnight and then it can save half of the electricity consumption every day.