

Shanghai Zhangjiang Hi Tech Park

SHANGHAI, CHINA

Services

MEP Engineering
Sustainable Design
Building Technologies
Energy Services
Fire/Life Safety
Commissioning

FAST FACTS

Architect

LRS Architects

Completion

December 2011

Building Size

2,150,000 sf

Project Cost

\$120 million

Contact

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LEED®

Upon completion, this project will apply to become LEED CS Platinum certified.

Shanghai is taking the lead in creating **S**eco-cities: urban areas that ban polluting cars, recycle as much as possible, utilize rainwater and clean wastewater and generate renewable energy by utilizing wind and solar resources.

Phase 4 of the Zhangjiang Industrial Park is a test of this approach. The client wanted to create a sustainable project with a LEED Platinum goal. Interface and the design team overcame several obstacles in their pursuit of LEED credits, the most challenging obstacle being the local water code. Shanghai's previous code did not allow reuse of any reclaimed water in buildings. Now, due to Interface's water code appeal and design to local semi-government developers, Shanghai allows non-potable water for flushing fixtures.

Interface also provided concept design of:

- » An ice generator, which makes ice at night (during less-expensive off-peak hours) and uses the ice for day cooling.
- » A thermal energy storage heating plant, which will give approximately 46 percent LEED heating energy savings.
- » A system that collects rainwater and diverts it to a man-made pond. That water is then used to flush toilets and urinals.
- » A solar hot water heating system.

LRS Architects worked with Interface from inception to the final design. Interface was able to work with our client and local A/E firm in China to come up with the best LEED strategies for the project to achieve platinum.

RAYMOND CHENG, LRS ARCHITECTS



Currently in construction, many innovative sustainable features are incorporated into the campus, including Interface's design of the photovoltaic panels and vertical axis wind turbines.