



LEED Platinum Goal

# 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

In Design

### Building Size

2,150,000 sf

### Project Cost

\$120 million

### Contact

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Shanghai is taking the lead in creating 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 clients wanted to create a sustainable project with a LEED Platinum goal.

Interface provided concept design of:

- » An ice generator, which will make ice during the night (during less-expensive off-peak hours) and use that ice for cooling during the day.
- » 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.
- » Solar photovoltaic panels and vertical axis wind turbines to generate renewable energy.

*LRS Architects worked with Interface Engineering 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 the platinum goal.*

RAYMOND CHENG, LRS ARCHITECTS

Renderings: LRS Architects



Many innovative sustainable features are included in the campus' design, including a central lagoon for rainwater reclamation.