

# Tony's Farm Market

By Playze

Location: Shanghai, China

Surface: 1,060 sqm

Year of Completion:  
2011

Green Solutions Used:

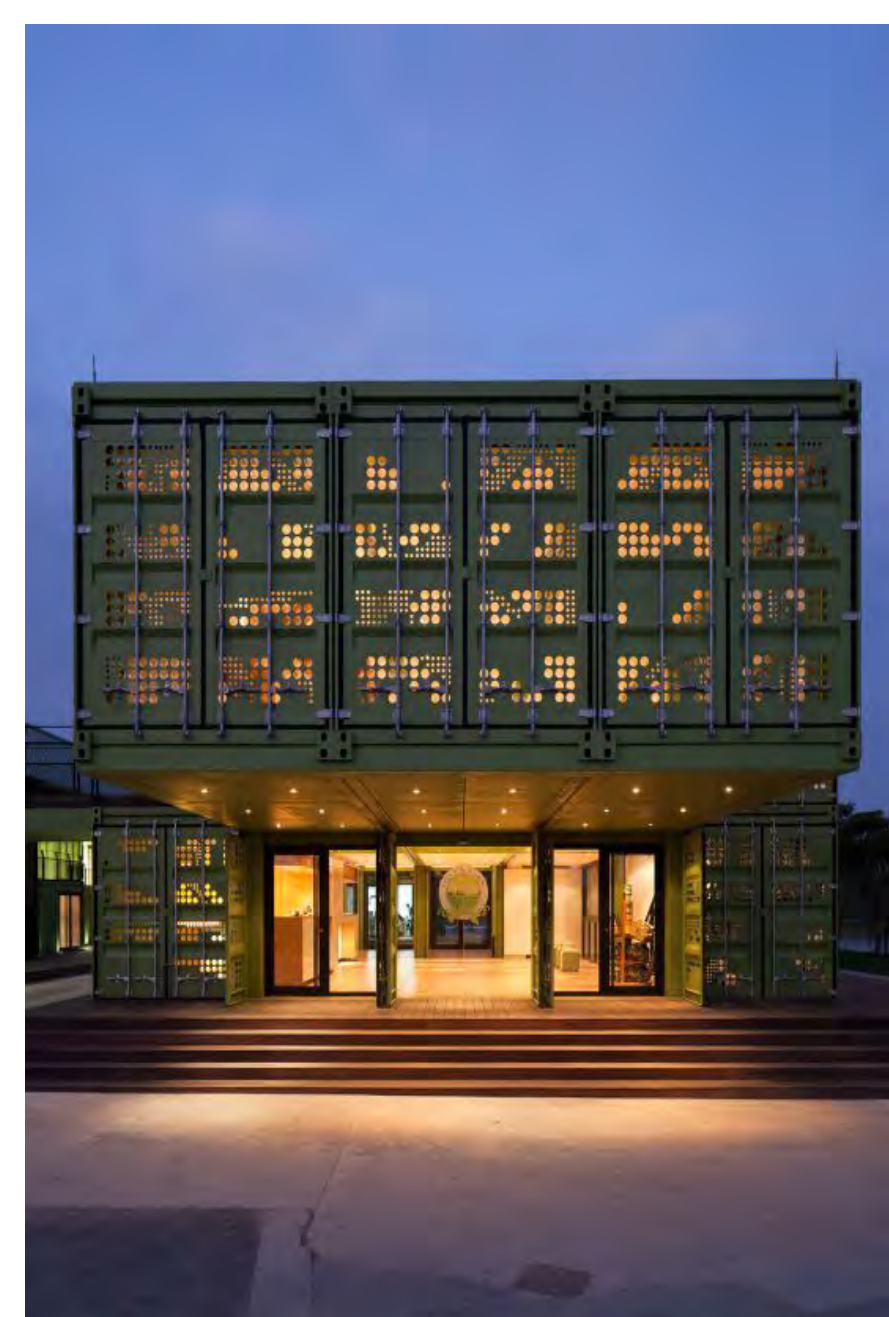
- Insulated Structure
- External Shading Blinds
- Natural light
- Geothermal Heat Pump
- Controlled Ventilation
- LED Lighting



## BACKGROUND

Tony's Farm is the biggest organic food farm in Shanghai, it provides transparency within the manufacturing process. The building design is driven by the concept of sustainability, combined with it's iconic qualities, it communicates and promotes the core concept of Tony's Farm.

Since the climatic exigence asked for impermeability and insulation, numerous specific details had to be developed to maintain the stringent appearance of the containers.



## GREEN SOLUTION

In order to cope with the high aspirations of the client regarding the protection of the environment, several strategies have been used to reduce the energy consumption of the building. The entire **structure is well insulated**, even though the containers appear in it's raw form. The original container doors have been perforated and serve as **external shading blinds** at the sun exposed facades to minimize solar heat gain. A **geothermal heat pump** delivers energy for the air conditioning and floor heating systems. **Controlled ventilation** helps to optimize air exchange rates and therefore to minimize the energy loss through uncontrolled aeration. The use of **LED lighting** reduces the general electricity consumption.



## ACHIEVEMENT

Another ambition of the project is to reduce the energy hidden in construction materials, the so called grey energy. Therefore recycled, ecologically sustainable, fast growing or at least recyclable materials have been used. The re-use of freight containers seemed adequate, the minimal weight of the container structure allowed to re-use the existing foundation plate. The use of local bamboo products for indoor and outdoor flooring, as well as all the built-in furniture additionally supports the ambition of constructing a truly sustainable building.



Architects: Playze

Location: Shanghai, China

Team: Mengjia He, Pascal Berger, Marc Schmit, Meijun wu, Liv Xu Ye, Ahmed Hosny, Andres Tovar, Sebastian Hefti, Maggie Tang

Area: 1,060 sqm

Year: 2011

Photographs: Bartosz Kolonko

All text and images from Archdaily  
<http://www.archdaily.com/311024/tonys-farm-playze/>

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