



Sustainable Development Solutions

Client

Nike

Location

Ho Chi Minh City, Vietnam

Sustainable Factory Design for Nike

Project Description

Rather than rely on energy-consuming methods, Nike's factory in Ho Chi Minh City, Vietnam, uses sustainable architectural design elements to help cool and light the interior.

IDC Architects, an affiliate of CH2M HILL, designed this 101,200 square-foot footwear factory to be an exemplary Asian model of environmentally responsible manufacturing. Nike's goal was to provide a safe and comfortable work environment using sustainable building practices. The idea was to demonstrate the benefits of cost-effective, sustainable applications and their resulting positive impact on productivity, quality, and standards of living.

A natural ventilation system cools the factory by drawing airflow from adjoining landscape zones into the facility; as it moves through the factory, warm air is accelerated and eventually expelled through roof-mounted venturi ventilation towers. Natural ambient daylighting is achieved with open mesh side walls that have continuous clerestory glazing and strategic skylighting. The design also incorporates deep shading roof overhangs and light-colored reflecting and heat-rejecting materials. In addition to providing the traditional functions of lighting and cooling, these design approaches also enhance the working environment with natural lighting and fresh air.