

Green Sustainability

Culture and Art, the Beautiful STSP



■ Vice President of the ROC, Mr. Wu Danyi, Gave the Prominent Golden Award for "Non-Profit Organizations" to the STSP Administration at the 2012 CSR Awards (September 17, 2012)

STSP Administration Certified with a Corporate Social Responsibility (CSR) Gold Award, the First One in the Public Sector

In order to publically demonstrate its CSR efforts and achievements over the last couple of years as well as promote its CSR as the industrial model, the STSP Administration compiles an annual CSR report and is the first one in the public sector that has a CSR report certified as "GRI G3.1A+" and "AA1000." STSP Administration in the evaluation of the "2012 Taiwan CSR Awards" received the prominent Golden Award for "Non-Profit Organization" as well as the best CSR Website Information Exposure, making the STSP Administration the first award winning public agency.

Furthermore, in order to promote CSR among park enterprises, in 2012, the STSP Administration actively consulted with five park enterprises to compile CSR reports and organized a "Consultation Result Demonstration Conference" for park enterprises to share opinions and experiences.

■ STSP Administration Received the "Excellent Award" of "2012 Energy Saving Performance Awards of the Ministry of Economic Affairs"(November 1, 2012)

Taiwan's First- Excellent Award for Energy Savings Given to the Resource Recycling Center

The Resource Recycling Center has been working under three directions: design, improve, and manage to promote energy saving measures. In the past three years, on average, energy saving efficiency reached 8.4%, equivalent to 383 KLOE and reduced carbon emissions by 1,020 tons and facilitated carbon absorption of 2.63 Da An Forest Park. These outstanding results enabled the STSP to receive the "Excellent Award" of the "2012 Energy Saving Performance Awards of the Ministry of Economic Affairs," the first one in Taiwan to receive the award for waste treatment.

Taiwan's First Waste Water Treatment Plant is Certified with Water Footprint by an Independent, Third-Party Agency

In order to effectively implement its water conservation policy, the Kaohsiung Science Park conducted a water usage analysis of park enterprises in 2012 and on November 22, it acquired a water footprint declaration for its underground drainage system. It has been the first waste water treatment plant certified with a water footprint approved by a third-party independent agency, indicating the proven and recognized achievement of its water conservation policy at the Kaohsiung Science Park.



■ Kaohsiung Science Park's First Waste Water Treatment Plant Certified with an Approved Water Footprint by an Independent, Third-party Agency (November 22, 2012)

Planting Trees for LOHAS at the STSP

On March 27, "Planting Trees for LOHAS at the STSP" was launched with the goal of promoting more tree planting activities. On the day, 16 park enterprises worked hand in hand planting trees and took responsibility for caring for trees to build the STSP Hope Forest, expand the landscaping effect, and make the STSP an environmental friendly, low carbon, and ecologically sustainable science park.

The original Shanhua Landfill, "Park No.1," with an area of three hectares was used to plant 4,000 trees after preparation work involving soil covering, methane exhaustion, revetment, grass landscaping to save carbon emissions by 48 tons on an annual basis. In 2012, the STSP planted 12,400 trees totaling the accumulated 136,000 trees planted to make a model "urban forest" in industrial areas around Taiwan.



■ Pine Tree Seedlings at the Tainan Science Park that will Grow into a Green Pine Tree Forest (March 27, 2012)



■ Planting the Seedlings of Hope to Initiate a Double Tree Planting at the STSP (March 27, 2012)

More Certification Efforts by the STSP to Obtain Green Building and Green Factory Labels

On May 25 and 28, respectively, the Tainan Science Park and Kaohsiung Science Park convened seminars on "Green Science Park and Green Factories" and organized on-site visits that attracted 178 participants. In 2012, four factories were given the Green Factory Label marking the STSP the greenest science park in Taiwan with the highest density of green factories. Additionally, two received Green Building certification. TSMC's P4 Building for Fab14 was certified an EEWB Diamond Green Building and UMC's PH3&4 Building of Fab12 received Taiwan's Gold and the US LEED Gold Green Building certification.



STSP's Green Building – TSMC's P4 Building for Fab 14 Received Taiwan's EEWB Diamond Green Building Certification (September 3, 2012)



STSP's Green Building— UMC's PH3 & 4 Building of Fab 12 Received Two Gold Certifications from Taiwan Green Building Label and US LEED (December 12, 2012)

The Official Launch of Free Shuttle Bus Services at the Kaohsiung Science Park

Free shuttle bus services were officially launched at the Kaohsiung Science Park on September 18 between Taiwan Railways' Luzhu Station and Kaohsiung Science Park. It has stops at the train station, dormitory area, standard factories, and offices of park enterprises. Every day, 16 shuttle buses are utilized and irregular reviews are conducted to meet the riding needs of Park commuters.



Official Launch of Free Shuttle Bus Services at the Kaohsiung Science Park (September 18, 2012)



UMC's Winning the "2012 Taiwan Green Classics Award" Given by the MOEA (October 4, 2012)

UMC's Taiwan Green Classics Award for its Environmental Protection Efforts

With the assistance of the STSP Administration, UMC's 12-inch IC wafer was researched, developed, and produced at Fab12A. It was awarded the "2012 Taiwan Green Classics Award" by the Ministry of Economic Affairs. This product passed Type 3 Environmental Product Declaration (EPD), carbon footprint, and water footprint certifications by applying an advanced special manufacturing process that saves electricity and boosts energy efficiency. A diverse selection of product design was offered and it was the best green production model produced by a STSP park enterprise.

STSP Green Science Park Map Allows You to Walk Around Freely

The "STSP Green Science Park Map" was officially launched on the STSP website on August 29(www.stsipa.gov.tw)! It presents five aspects of the STSP: green building, green transit, green production, green industry, and green ecology to enable people to interact with the STSP more closely as well as to facilitate the understanding of the STSP's visions of "Happiness, Value Creation, and Prosperity Sharing."

Valuing Water and Power Resources to Promote Energy Savings Effectively

In 2012, with the consultation of five park enterprises, 1,818.3×104 kWh has been saved on an annual basis, equivalent to the reduction of 9,748 tons of CO₂ emissions. In terms of water conservation, after a water consumption analysis of 11 park enterprises, the STSP Administration helped to save annual tap water consumption by 1.8257 million tons, which is equivalent to the reduction of 378 tons of CO₂ emissions.

The STSP as a Model Photovoltaic Generation System

In order to make effective use of the rich solar resources of Southern Taiwan, the STSP completed the installation of a photovoltaic generation demo system with a capacity of 358.9kWp that can supply about 10% of the energy consumption needs of the street lamps at the STSP. The STSP Administration also encourages park enterprises to install photovoltaic generation equipment with a capacity of under 500kw on their roofs. By the end of 2012, a capacity of 4003.6kWp was built.

