



Taiwan Unveils the Eco-Power Station, Featuring 10 Green Products That Are Making Zero-Energy Consumption Possible

TAIPEI, Taiwan, Oct. 14, 2015 /PRNewswire/ -- The Eco-Power Station (EPS) is a revolutionary, totally off-the-grid system that is entirely self-powered by solar energy. It features a 5 kW thin-film photovoltaic module as well as a 5kW lithium-ion battery. The EPS was designed by the Green Trade Project Office, which is Taiwan's leader in promoting and integrating green products and services. Altogether, the Eco-Power Station has brought together ten innovative Taiwanese green-technology producers in order to demonstrate the viability of a green solution to the crisis of climate change.

Basically, the EPS has been created out of a 40 by 8 foot shipping container that will actually serve as an electric-bicycle station. In addition, the entire rooftop area of the station is covered with GEAC's thin-film solar panels. These panels feed the station's smart grid with electricity, with any excess electricity then stored in the station's batteries.

The energy-producing solutions implemented in the EPS are incredibly efficient. For starters, a compact chamber in the lithium-ion battery from TD HiTech and Ecolohas Energy Tech enables the station to store energy for times when the demand exceeds the current energy production. With the help of Billion Electric's smart-energy-management system, cloud monitoring technologies have been implemented to help ease administrators on the challenges of the central control of scattered equipment. This helps to create fast and more efficient workflows between devices, which boosts productivity and save energy. In addition, while the renewable energy systems that power the station are reliable and continuously monitored, the station has also installed M-Field's hydrogen fuel cell to provide reliable backup power, in case of blackouts. Under normal conditions, this hydrogen fuel cell self-refuels, when a supply is maintained through the solar-power source. In total, this fuel cell can provide more than 8 hours of back-up power while operating at its maximum output.

In addition to consuming zero-energy from the grid, the EPS also features various innovative green products of note. Heatax's insulation coating, for example, has been widely hailed for having the highest cost-to-performance value of all thermal insulation paints in Taiwan. In specific, it can reflect up to 88 percent of solar heat; it is easy to use for DIY-projects; it is made to be long-lasting; and, most importantly, it is very affordable. Nustone provides another noteworthy coating. This coating is actually a one-of-a-kind building material that can completely transform ordinary surfaces by giving them the look and feel of stone, with less difficulty and less expense. It is, essentially, a new generation of spray paint that creates a genuine stone-like surface of granite, marble, or



quartzite, among many others. In addition, the designers at Renato-lab have long enjoyed turning recycled goods into fashion products, since they believe that great design and recycling technology can be integrated with more sustainable lifestyle choices. For example, inside the EPS, Renato-lab's eye-catching RE/Luminance incorporates reclaimed brightness enhancement films, which are usually found inside LED panels. These recycled films have been reformed and rearranged to create different artistic optical effects. The Eco-Power Station also features Jia-Qian Rubber Tech's rubber flooring tiles, which are made of 100 percent recycled tires. This company has been producing durable and flexible tiles for a variety of applications since 1996. What's more, in addition to being eco-friendly, Jia-Qian Rubber Tech's tiles have been widely praised for delivering aesthetic and performance excellence in the full range of tile categories. Finally, a solar pillar from SunValue is another type of functional artwork in the EPS that enables cell phones to be charged with the power generated by the pillar's bricks. To explain, this solar pillar is made of solar-power bricks, which have been embedded with a light-guiding material that is capable of absorbing solar energy from various angles. These bricks can also be integrated into existing buildings and are ideal for vertical installation.

The EPS is scheduled to be shipped to Liberty State Park, New Jersey, in the United States of America, in March of 2016, to be used as one of the area's bicycle rental stations run by Bike and Roll. For more information, please visit www.greentrade.org.tw

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