



- Press Release -

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A Flexible Dual-axis Solar Tracking System is able to Survive in Extreme Conditions

BIG SUN iPV Solar Tracker provides high reliability and high profit

HSINCHU, Oct. 7, 2015 /PRNewswire/ -- During the typhoon season, strong winds often cause a lot of damages to solar power sites, and the investments are blown away instantly. To overcome extreme weather conditions, considering environmental adaptation and high-efficiency of the PV system should be the first priority instead of reducing its initial capital cost.

- **High Reliability – Resist extreme environmental conditions**

Inevitably, BIG SUN Group, a Taiwanese solar photovoltaic (PV) manufacturer, also needs to overcome the typhoon issue; however, the BIG SUN iPV Solar Tracker with its dynamic balancing design of parachute-like (cable-driven) structure enables strong wind resistance. After the super typhoon lashed Taiwan, the structure of iPV Solar Tracker was not broken. If the system only had a single pier which was similar to an umbrella, it would be easy to blow away like other PV mounting systems. The patent design of iPV Solar Tracker is like a seat belt, it protects the PV system to face extreme situations as well as without hitting surroundings.

The land choice is also an investment. With H-piling construction, the iPV Solar Tracker can be installed rapidly without extensive land grading and concrete curing; 25 years later, the steel piles can be recycled, the value can be preserved and the environment can be protected.

- **High Profit – Produce valuable PV output to bring overall benefits**

When investing in solar power plants, the first thing is to evaluate its ROI. If only considering its capital cost but being careless of qualities of modules and other system components, it will be too late to make up for these oversights after disasters. Based on many case studies, combining high-performance iPV Solar Tracker with high-efficiency BIG SUN solar panels, the solar power harvesting is able to be maximized up to 50% more than a fixed-tilt PV system. Therefore, the total profit from iPV solar tracking system is much higher than the initial spending.

The other thing that needs to be evaluated is the ability of maintenance. Topper Sun, the subsidiary of BIG SUN, is a top local EPC firm which provides immediate professional maintenance and after-care services. Topper Sun also applies the iPVita monitoring and control system to improve the PV site performance, assure the output of the PV site, and reduce maintenance costs by resolving faults more effectively.

One more thing to be aware of is that solar electricity must be generated in the right way. Not all PV systems have the same "value" of electricity. Fixed-tilt systems produce excess energy at noon, but solar tracking systems are able to make power production more constant throughout the day, especially dual-axis tracking systems (DAT). In the morning and late afternoon, when demand is high, the power generation of DAT can meet the need closely. Hence the electricity generated from iPV Solar Tracker, a dual-axis solar tracker, should be more valuable and needed.



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Summer Luo, chairman of BIG SUN Group, emphasizes, "Follow the sun to get the proper power generation system and make the right investment for best profits. More importantly, we should always have good intentions to produce good energy and respect our mother earth."

For More Information, visit BIG SUN at PV Taiwan 2015 booth # K0601.

About BIG SUN Group

BIG SUN was founded in 2006. Its core business is focused on the design, production, and sale of high-quality solar products. BIG SUN's main products include 6" mono-crystalline silicon solar cells, the iPV Solar Tracker and the web-based iPVita monitoring & control system. The current conversion efficiency of BIG SUN's 6" mono-crystalline silicon solar cell is 20.0% (60-cells module with up to 290 watts power). Based on its extensive product lines, BIG SUN can offer vertical integrated PV power system solutions.

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