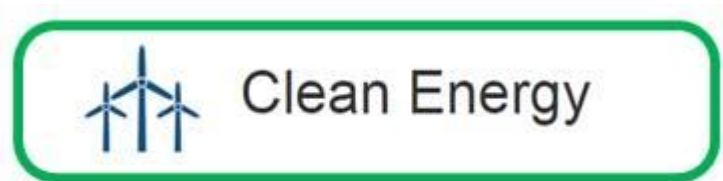




Case Study



Wuxi, Jiangsu Province - China's First Zero Energy Building

This Suntech Photovoltaic (PV) Research and Development Center was the first Zero Energy Building in China which incorporates building integrated Photovoltaic (BIPV) solution, energy-saving radiant-type AC system, and intelligent lighting control. This is particularly interesting for the southern climate zones with high air conditioning requirements. Suntech is a world market leader in the industry of solar energy. The Suntech PV R&D Center has a total space area of 64,000sqm, including the R&D Center and Recreation Center buildings. The building features facades that incorporate 20,000sqm of photovoltaic materials, from which the collected solar energy will be transformed and added to the main energy supply for daily operation of the building. Plus, coupled with many other building energy-efficient technologies, the building succeeds in the autarkic operation of energy supply, becoming a trend setter as a “Zero Energy Building” in China.



Source: Left Photo: <http://www.chinabaik.com/2011/0318/550048.html>
Right photo: <http://news.zhulong.com/read167828.htm>

"Suntech announced the opening of its new, state of the art solar headquarters in Wuxi, China. The 18,000 square meter office building incorporates the world's largest on-grid photovoltaic facade system, with over 2,574 semi-transparent Light Thru(TM) solar panels and an annual power output of over 1 million kilowatt hours of electricity. The solar energy produced will save over 600 tons of carbon emissions every year."

References

www.suntech.com

http://www.transbanana.com/suntech_wuxi_china_transbanana_projects.htm

<https://www.weforum.org/agenda/2017/06/china-clean-green-buildings-future/>

<http://www.wri.org/blog/2017/05/how-can-china%E2%80%99s-green-building-sector-grow-fivefold-2030-3-cities-show-us-way>

Credentials

Authors: Paul Suding, and Florian Steinberg. Edited by: Florian Steinberg