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PRODUCTS OR MACHINERY

1. Company brief introduction UrbanEnvironmentEng. Co., Ltd. Is a group of people who unceasingly endeavor to be the best in the application field of solar power system. The company is equipped with solar power technologies such as electronics, electricity, design and construction. We are also armed with professional mentality. With both technical and mental superiority, we've put our best effort to develop solar power system. As a result, we ended up with having 2 fixed type solar power systems and 3 solar tracking type power systems. Also we have two registered patents in the solar power generation field and 11 patents pending. We want your encouragement and care so that UrbanEnvironmentENG. Co. can play an important role in realizing the vision of world of clean environment energy. 2. Main products 2-1. Single Axis Inclined PV solar Tracking System 2-1-1.

Function/Characteristic The Single Axis PV Solar System has a shortcoming in that in the south-north direction the panel is fixed parallel with the sky and thus inclination can not be adjusted, though the panels can have inclination adjustment east-west wise using an axis. Thus reception of solar energy during winter, early spring, and late autumn, has to be relatively low and accordingly the generation is low. An improvement has been incorporated by giving the panels an adequate inclination, still maintaining the east-west adjustment function using an axis. The version such enhanced is the Single-Axis inclined PV Solar Tracking system. The given inclination angle north-south wise is 30 degrees which is the yearly angle of elevation of the sun. This way, the seasonal variation of the generation is minimized and total generation is maximized. 2-1-2. Specification • Driving power : 24W(average) • Rotational angle : -45~+45 • Panel alignment method : Actuator type • Maximum withstanding wind velocity : 35m/s • Measure for rust prevention : Hot-dip galvanized steel bolts used • Number attached modules : 54ea(Approximately 12.15kWp per unit) 2-2. Altitude angle adjustable Single Axis Inclined PV solar Tracking system 2-2-1. Function/Characteristic This model is evolutionary version of Single Axis Inclined PV solar tracking system. Basically with all features of that, it is equipped with ability to adjust panel's altitude angle manually. The altitude angle can be adjusted from 10°~50° so that tracking system can perform optimal solar power generation. 2-2-2. Specification • Driving power : 24W(average) • Rotational angle : -45~+45 • Panel Alignment method: Azimuth?by Actuator, Altitude?by Manual • Maximum withstanding wind velocity : 35m/s • Measure for rust prevention : Hot-dip galvanized steel bolts used • Number attached modules : 54ea(Approximately 12.15kWp per unit) 2-3. Dual Axis Inclined PV Solar tracking Systems 2-3-1. Function/Characteristic It is designed to get optimum power generation efficiency even with seasonal changes by adding a height control part to Single Axis Inclined PV Solar systems in order to adjust, in the range of 10~50 degrees, the inclination angle of modules when the height of the sun changes. 2-3-2. Specification • Driving power : 24W(average) • Rotational angle : Azimuth(-45~+45), Altitude(10~50) • Panel alignment method : Azimuth, Altitude ?by Actuator • Maximum withstanding wind velocity : 35m/s • Measure for rust prevention : Hot-dip galvanized steel bolts used • Number of attached modules : 72ea(Approximately 16.2 kWp per unit) 2-4. Controller of PV Tracking Systems 2-4-1. Function/Characteristic • Real time precision control system, with daily update via GPS, utilizing a built-in clock. • Precise tracking is possible with alignment mismatch between the sunray and the panel normal line within 1 degree or smaller. • Wireless communication using Zigbee, wire communication using RS-485 • simplified installation, with user-friendly interface features • Change to horizontality mode automatically when strong wind blows • Acquisition of such data possible latitude, longitude, sunup time, sunset time, azimuth and elevation the sun, and angle of the panel • By avoiding the shades from adjacent modules at sunup and sunset times, availability of power generation is maximized. 2-4-2. Specification • Control: solar location determined by calculation based on a solar tracking algorithm, which guarantees precise tracking of the sun. • Communication method: wireless communication using Zigbee, MULTI DROP using RS-485 • Inclination sensor : detect inclined angle -70~+70(limit of resolution 0.0050) • Temperature : -20 ~50 • Water-proof, dust-proof : IP 65 • Humidity : 0~85% • Input voltage : AC220V 3. Completed Projects list (plant name/plant power/tracking type/year) Yeongdong Solar Power Plant/30kWp/Single axis(Tracking)/2007.7 Hyein Solar Power Plant/1MWp/Fixed/2007.10 Sollec Solar Power Plant/1MWp/Single axis(Tracking)/2007.11 Hwangsan Solar Power Plant/1MWp/Single axis(Tracking)/2008.3 Hwawon-myeon C.K/1MWp/Single axis(Tracking)/2008.2 Gwangsan-Dong Honam Univ/11.5kWp/Single axis(Tracking)-housetop/2007.11 Daedong Solar Power Plant/1MWp/Single axis(Tracking)/2008.5 Taein Solar Power Plant/300kWp /Single axis(Tracking)/2008.4 Heungyang Solar Power Plant/500kWp/Single axis(Tracking)/2008.5 Hyeonwoong Solar Power Plant/100kWp/Single axis(Tracking)/2008.5 Yeonggwagn Solar Power Plant/300kWp/Inclined Single axis(Tracking)/2008.7 Green Solar Power Plant/1MWp/Single axis(Tracking)/2008.9 Cheonil Solar Power Plant/747kWp/Single axis(Tracking)/2008.6 Wonsung Solar Power Plant/500kWp/Inclined Single axis(Tracking)/2008.9 Woosuyeoung Solar Power Plant/1MWp/Single axis(Tracking)/2008.9 Fefit Solar Power Plant/100kWp/ 2008.6 Newdil 21 Solar Power Plant/64kWp/Adjustable Fixed/2008.7 Yeonggwagn ENS Solar Power Plant/300kWp/Single axis(Tracking)/2008.8 For residential 160 houses at Won-Ju/480kWp/Fixed Residential/2008.10 JinHee Solar Power Plant/100kWp/Inclined Single axis(Tracking)/2008.12 Eun-Il Solar Power Plant/100kWp/Inclined Single Axis(Tracking)/2009.1

Company Profile of **Urban Environment ENG Co., Ltd.**

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