

Cases of green campus solar energy application in Korea

by KAGCI

The concept of green campus was introduced to Korea recently. Even the application of solar energy which is relatively familiar than other new & renewable energy is rare in Korean universities. The role of universities in saving energy has been emphasized with the green campus movement and many universities are interested in introducing the solar energy experimentally to their campuses.

Presently, Chosun university, Sangji university, Hallim university, Jusung university, Korea Polytechnics, Chungbuk provincial college, Daegu university of industry, Daelim university are using solar energy experimentally for only a few buildings. Sangji university and Chosun university are the most active among them.



Sangji university established an on-grid, self consuming solar energy system of 50Kwp in capacity, in 2006. Since then, it has generated 128,000KWH for 30 months, saving 9,216,000KW. In the following year, the school established another solar energy system with the same capacity, generating 47,690KWH for 10 months and saving 3,433,680KW. In 2008, it installed another solar

energy system with the same capacity and better efficiency, and is leading the development of environmentally friendly energy by establishing a new & renewable energy equipment which is integrated to geothermal power generation.

Chosun university used 53Kw of sunlight, 1,220,000Kcal of solar heat, 2,280Kw of night time electricity to replace 30% of energy consumption in their dormitories. Also, the 'Research complex for solar energy' project was supported by the Ministry of Commerce, Industry and Resource in November 2001 to facilitate the Alternative Energy Proliferation Act and to help prepare for the solar city construction project in Gwangju.

