

Eco-friendly Green Convention Center, EXCO

EXCO is the first convention center in the Korea, installed with multi renewable energy systems such as photovoltaic generation systems(fixed, BIPV), solar street lights, solar floor tile lights, geothermal cooling-heating systems, solar daylighting system (prism), and solar water heating system(single vacuum tube), high-efficiency LED-lighting system.



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Low Carbon Green Growth with EXCO

exco

exco

Green Convention Center Outline



Project Outline

Project name EXCO's Green Convention Center

Project period 2004. 4.~2013. 2.

Purpose To meet the demand of the government's new & renewable energy industrial policy and upgrade the image of Daegu as a solar city.

EXCO's Green Convention Center Project



Installation Effects

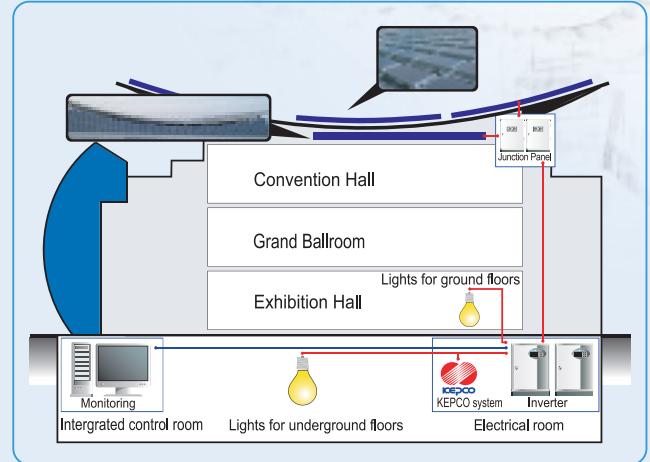
Facilities	Capacity	Project cost (unit : \$1,000)	capacity/yr. (kWh)	reduced CO ₂ (tCO ₂)
PV system	482.34(kW)	3,289	541,000	254.33
BIPV system	20(kW)	255	23,000	10.82
Geothermal system	77(RT)	315	317,865	149.55
Solar thermal system	204(m ²)	200	178,386	83.93
Daylighting system	285(m ²)	1,307	398,989	187.72
Total		5,366	1,459,240	686.35

*The total amount of money saved by reducing carbon a year is USD 180,000

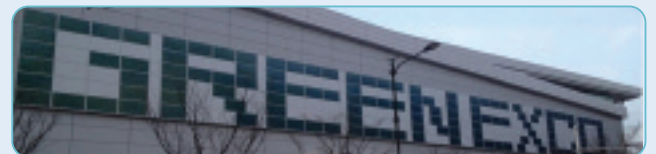
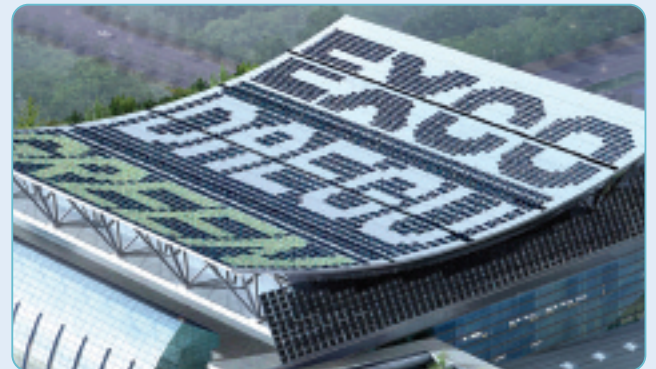
Photovoltaic Generation System (Module Type)



System component



Installation view



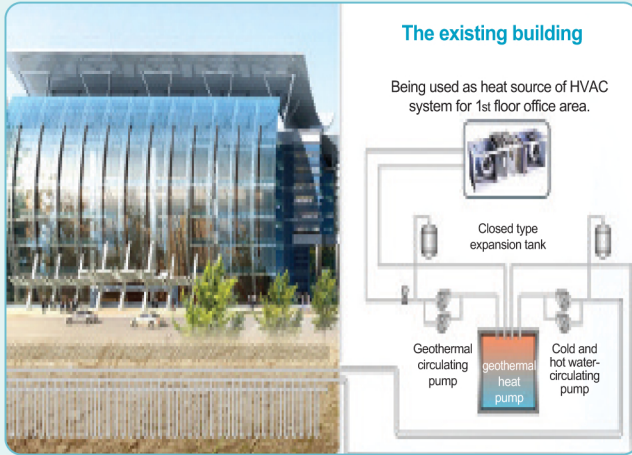
Geothermal Cooling-Heating System



Solar Daylighting System (prism)

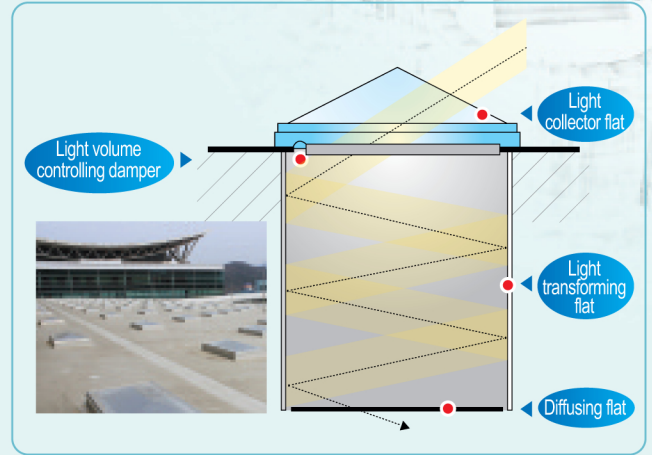


System component (1st)

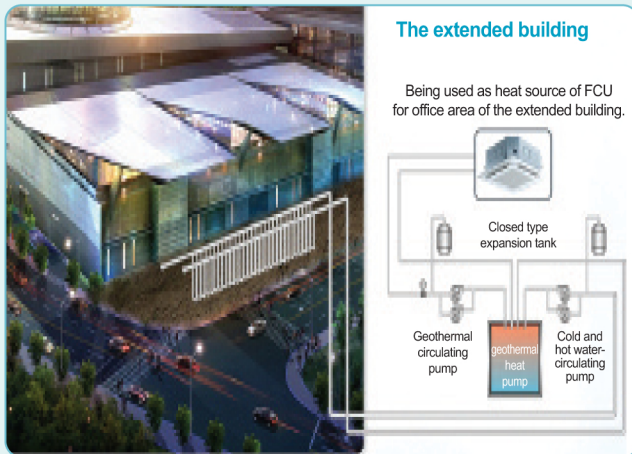


※ HVAC : Heating, Ventilation, Air Conditioning

System component



System component (2nd)



※ FCU : Fan Coil Unit

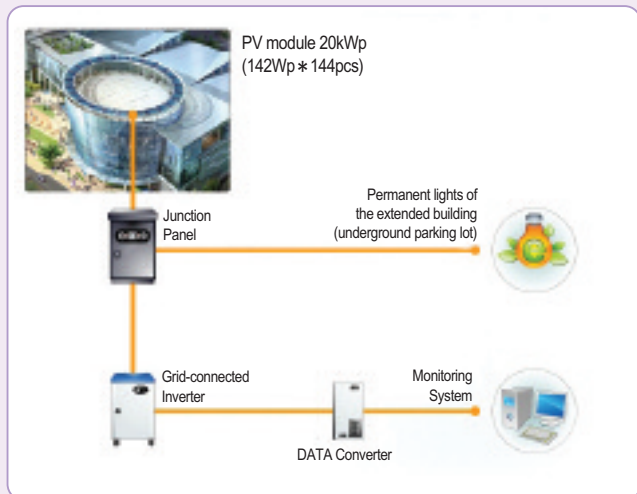
Installation view



Building Integrated Photovoltaic System (BIPV)



System component



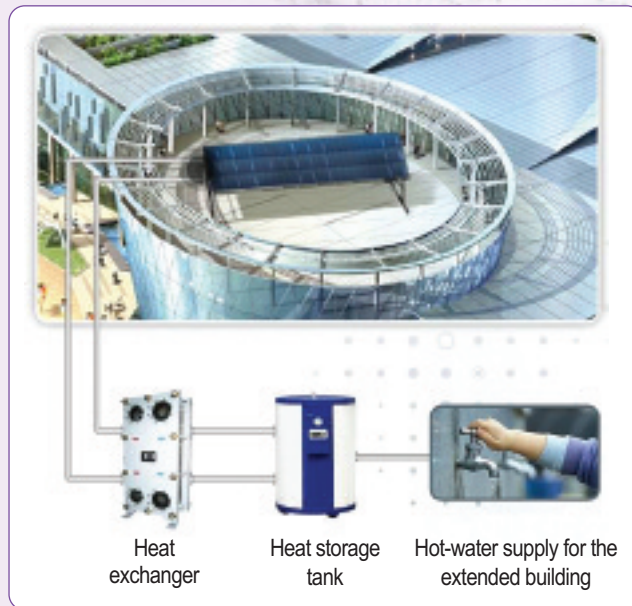
Installation view



Solar Water Heating System (single vacuum tube)



System component



Installation view

