

**Project name**

Samsung Green Tomorrow



<b>Keywords</b>	Zero energy, zero emission, green IT, passive & active design, renewable energy
<b>Start of project</b>	2008
<b>End of project</b>	2009 (still in operation)
<b>Contact person or organisation</b>	Samsung C&T corporation
<b>Short project description / project function</b>	Samsung green tomorrow seek to implement global futuremark by not using the fossil energy, and by using energy efficient technologies
<b>Water</b>	Green tomorrow applied various water treatment systems in order to achieve zero emission of CO <sub>2</sub> and no need from public water supply facilities. Rain water system, grey water treatment system, water saving faucets and toilet bowls were installed
<b>Energy</b>	Passive design such as site plan of the building, enhancement of thermal performance of envelop, natural lighting and ventilation were applied to reduce energy demand. Active design such as high-efficiency lighting and HVAC system were adopted. Renewable energy systems such as BIPV, geo thermal cooling and heating, solar heating, fuel cell, wind electricity generating systems were also installed.
<b>Biomass</b>	n/a
<b>Project benefits</b>	Green tomorrow was built to suggest new green house model and to implement passive & active design in a detached house. 60 green technologies were applied in practice. Obtained LEED platinum.
<b>Project level</b>	Pilot project
<b>Financial scale</b>	n/a
<b>Environmental conditions</b>	January mean temperature: -4.8°C, August mean temperature: 26°C, Latitude: 37.25°, Longitude: 127.16°
<b>Altitude</b>	n/a
<b>Description of special local conditions</b>	n/a

---

**Context Zero Emission Buildings**

Samsung green tomorrow is a building model implementing green technologies: fossil energy use zero, green-house gas emission zero, 10% substitution of total energy consumption by renewable energy.