LG's Green, Smart, and Eco friendly Solutions represent our core product and successful examples.

LG
Life's Good

Agenda

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Contents

LG Electronics AC Company

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- Global Total HVAC and Energy Solution Company
- Design comfort through green technology

Comfort	Green
End-user	Energy Saving

Business Partner & Customer	Environment Friendly

HVAC solution

- Residential Air Conditioning
- Commercial Air Conditioning

Energy solution

- Solar Energy
- Lighting
- Solution

Introduction of LGE Energy Solutions

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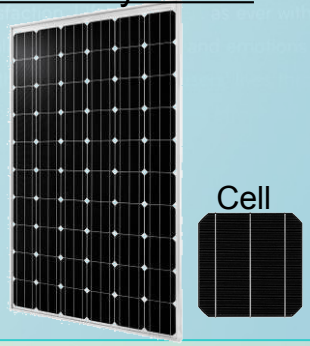
■ Green, High efficient and Convenient solution

HVAC Solution

Multi V (Electric Heat Pump)

Power Generate Solution

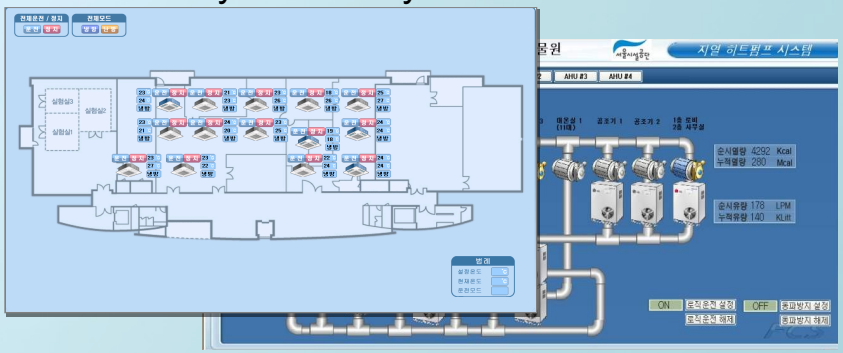
Mono Crystalline



Multi Crystalline

BEMS Solution

V-net Facility Control System



Lighting Solution

LED Lights

PR16
(replace halogen)

PAR Type

Bulb
(replace Incandescent)

Green Home

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Photovoltaic Power Generate
- Power Generate : 3kW

Solar-powered heating

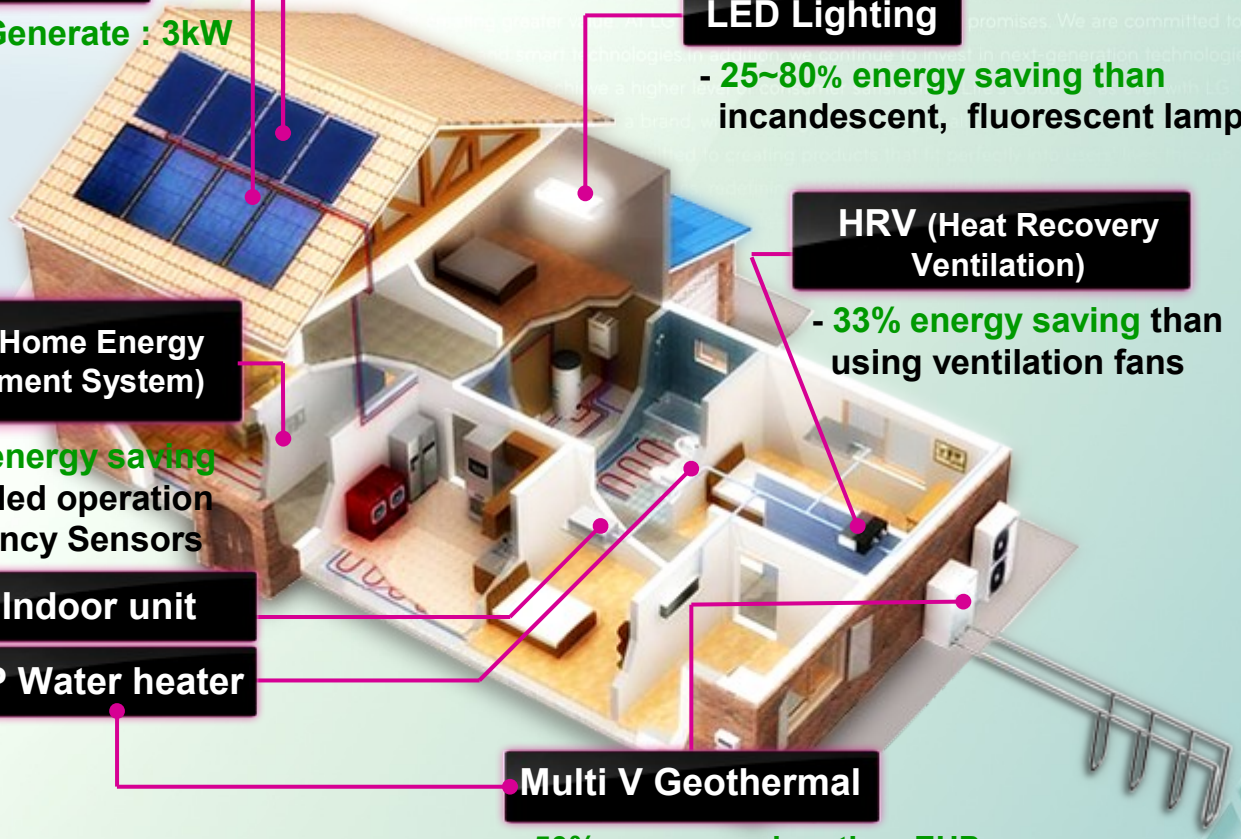
LED Lighting
- 25~80% energy saving than incandescent, fluorescent lamp

HRV (Heat Recovery Ventilation)
- 33% energy saving than using ventilation fans

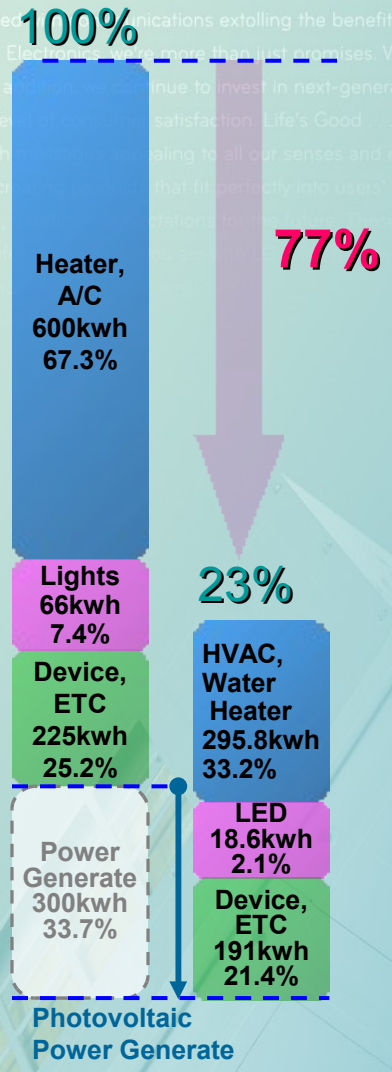
HEMS (Home Energy Management System)
- 5~15% energy saving
- Scheduled operation
- Occupancy Sensors

Indoor unit

HP Water heater



Multi V Geothermal
- 50% energy saving than EHP
- 75% energy saving than Electric heater
- 40% smaller footprint than competitor



Monthly Operating Power Consumption

Green School (Actual Example)

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Multi V III (Aerothermal Heat Pump)

- Individual zone control
- 20% higher COP than competitor
- 30% less installation space
- Continuous heating operation

Solar Energy

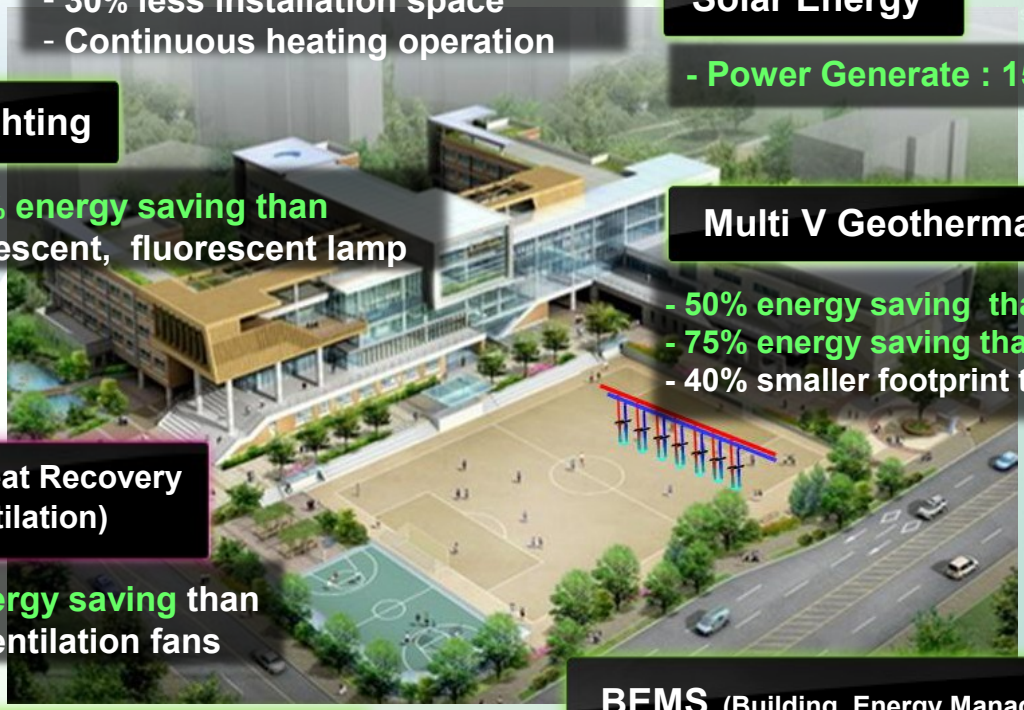
- Power Generate : 15kW

LED Lighting

- 25~80% energy saving than incandescent, fluorescent lamp

Multi V Geothermal

- 50% energy saving than EHP
- 75% energy saving than Electric heater
- 40% smaller footprint than competitor



HRV (Heat Recovery Ventilation)

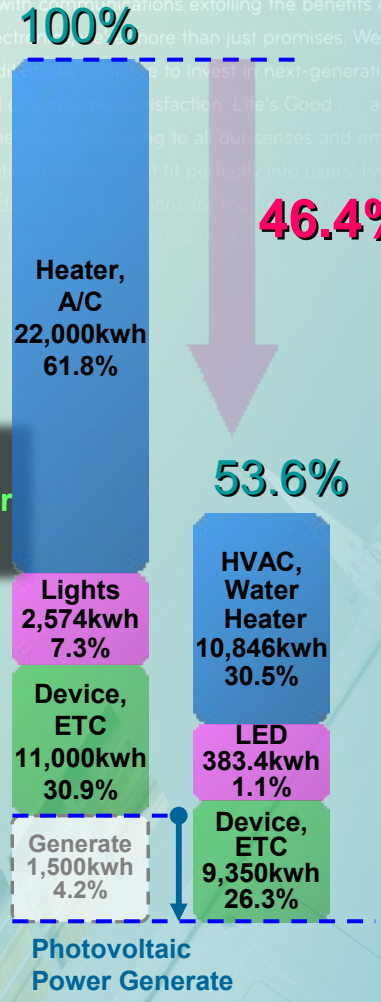
- 33% energy saving than using ventilation fans

BEMS (Building Energy Management System)

- 5~15% energy saving
- Using Temp. Lock, Schedule, Dimming Control
- Efficiency use with interlocked Sensors

AHU (For Large Space)

-Total IAQ (Indoor Air Quality) management
- 60~70% energy saving by heat recovery



Green Building

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Photovoltaic Power Generate

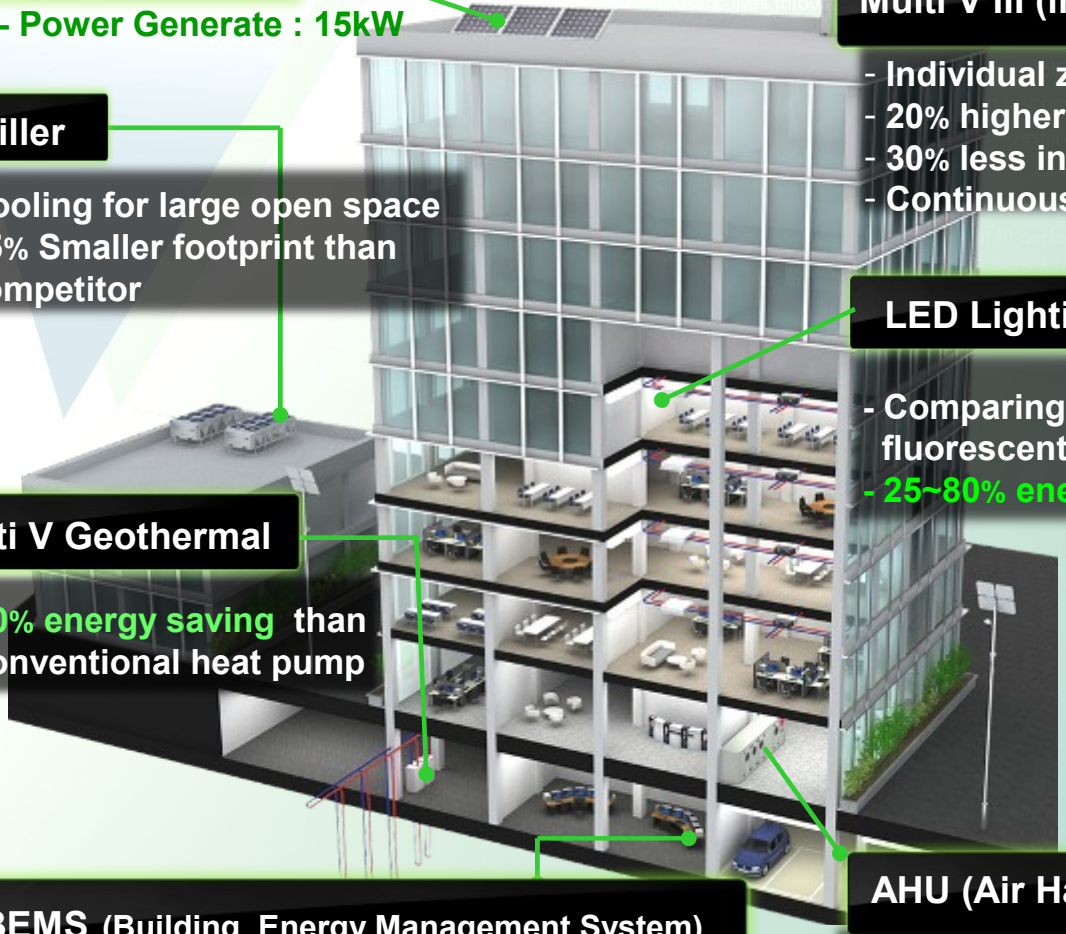
- Power Generate : 15kW

Chiller

- Cooling for large open space
- 15% Smaller footprint than competitor

Multi V Geothermal

- 50% energy saving than conventional heat pump



Multi V III (inverter Heat Pump)

- Individual zone control
- 20% higher COP than competitor
- 30% less installation space
- Continuous heating operation

LED Lighting

- Comparing with incandescent, fluorescent lamp
- 25~80% energy saving

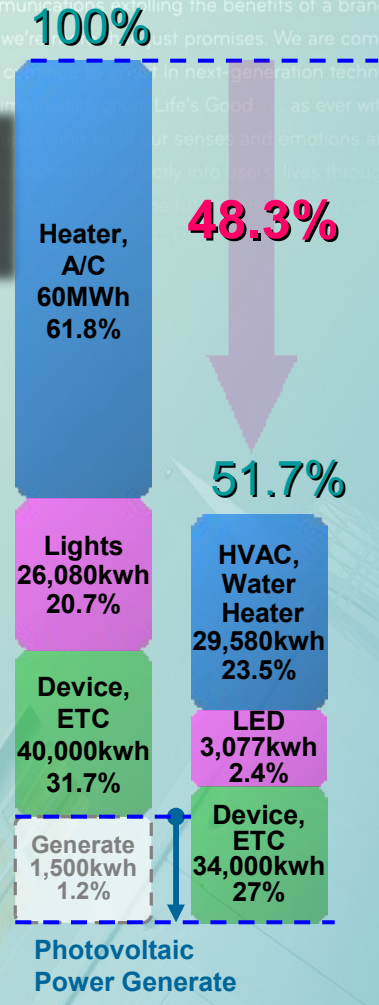
AHU (Air Handling Unit)

-Total IAQ (Indoor Air Quality) management

- 60~70% energy saving by heat recovery

BEMS (Building Energy Management System)

- 5~15% energy saving
- Using Temp. Lock, Schedule, Dimming Control
- Efficiency use with interlocked Sensors



Green Hospital

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AHU (Air Handling Unit)

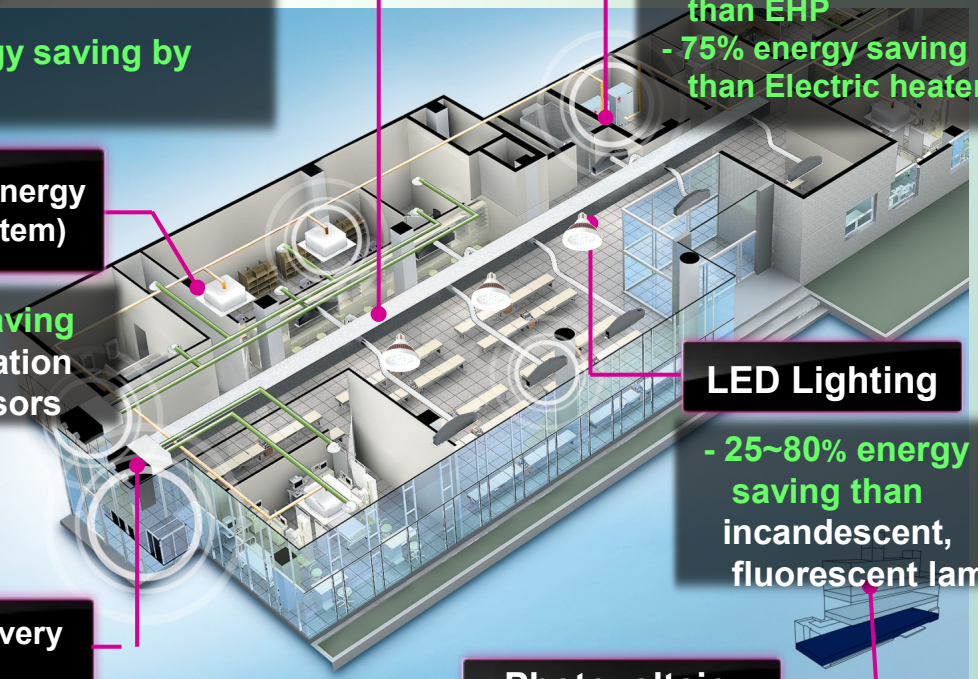
-Total IAQ (Indoor Air Quality) management
- 60~70% energy saving by heat recovery

Multi V Geothermal

- 50% energy saving than EHP
- 75% energy saving than Electric heater

BEMS (Building Energy Management System)

- 5~15% energy saving
- Scheduled operation
- Occupancy Sensors



LED Lighting

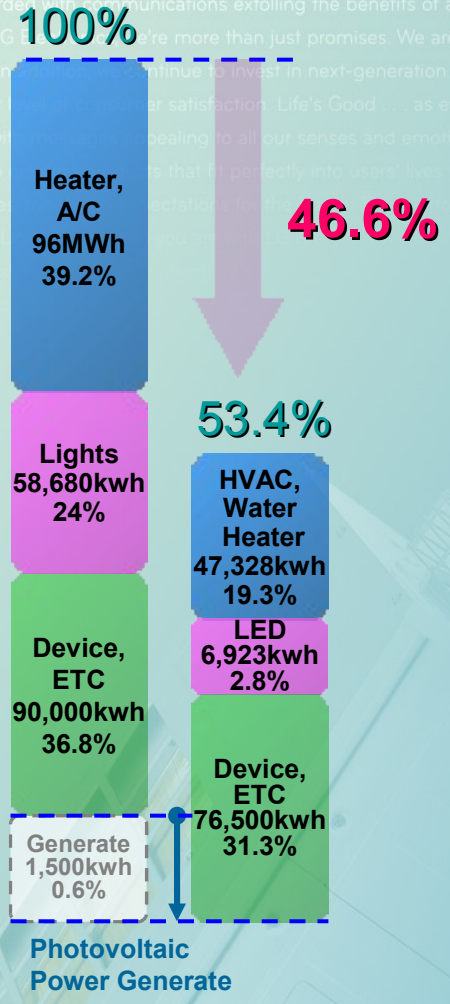
- 25~80% energy saving than incandescent, fluorescent lamp

HRV (Heat Recovery Ventilation)

- 33% energy saving than using ventilation fans

Photovoltaic Power Generate

- Power Generate : 15kW



Yul-myeon High School

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■ Successful example applied Geothermal, BEMS System

■ Information

- Name : Yul-myeon High school
- Location : 545 Godang-ri Yul-myeon Icheon Gyeonggi-do
- Size : 4 story building
- Usage : Educational facility
- Gross Floor Area : 3,545㎡
- Completion : September 2009

■ System Overview

Geothermal Heat Pump System (Water to Air)

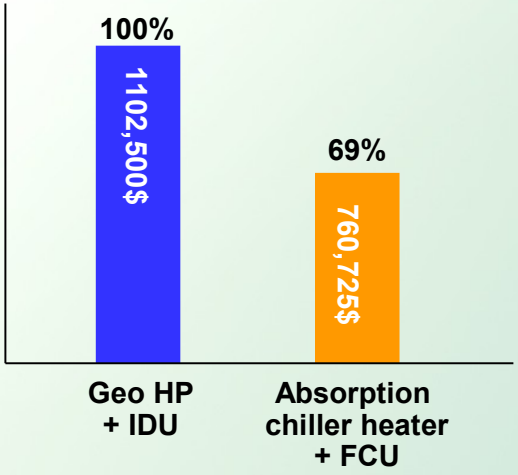
(A) Nominal Capacity : 58 kW x 11ea, 29 kW x 3ea
(B) Cooling Capacity : 725 kW
(C) Heating Capacity : 813 kW
(D) IDU : Ceiling Cassette
(E) Pipe : Vertical closed(150M x 70EA)

Building Energy Management system (FCS)

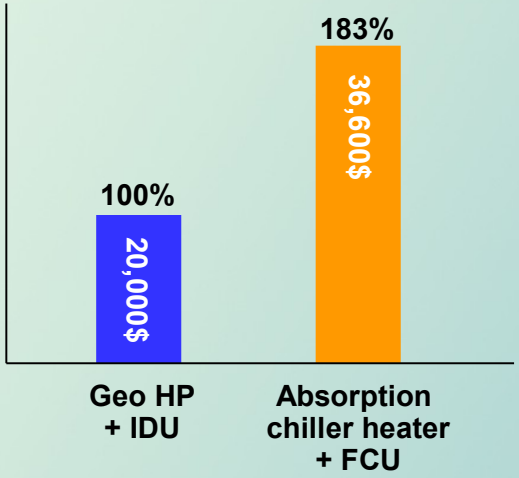
Monitoring/Controlling IDU and geothermal system

■ Installation results

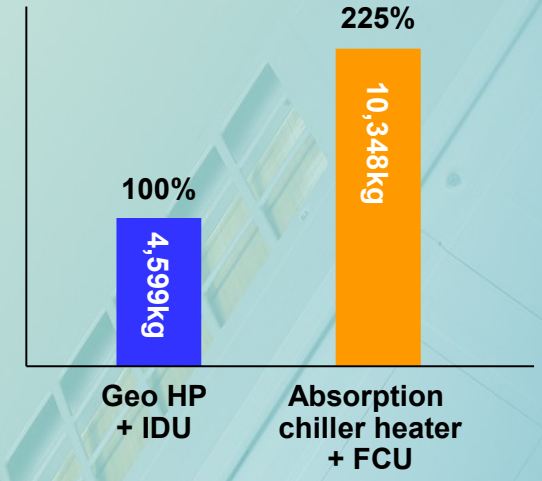
★ Initial investment Cost



★ Annual operating cost



★ CO2 emission



Seoul Children's grand park

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■ Successful example applied Geothermal, BEMS System

■ Information

- Name : Seoul Children's grand park
- Location : neung-dong Gwangjin-gu Seoul Korea
- Size : Green house(large space)
- Usage : Botanic Garden
- Gross Floor Area : 1,944 ㎡
- Completion : Oct 2009

■ System Overview

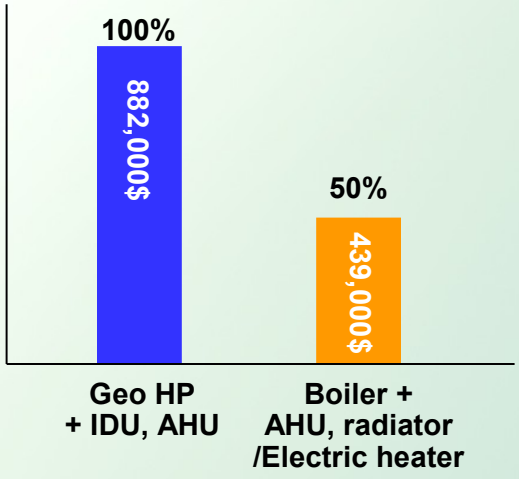
Geothermal Heat Pump System (Water to Air)

(A) ODU Capacity
87kW x 4ea, 58kW x 3ea 29kW x 2ea
(B) Cooling Capacity : 580kW
(C) Heating Capacity : 652kW
(D) IDU : Ceiling concealed duct, AHU
(E) Pipe : Vertical closed(200M x 40EA)

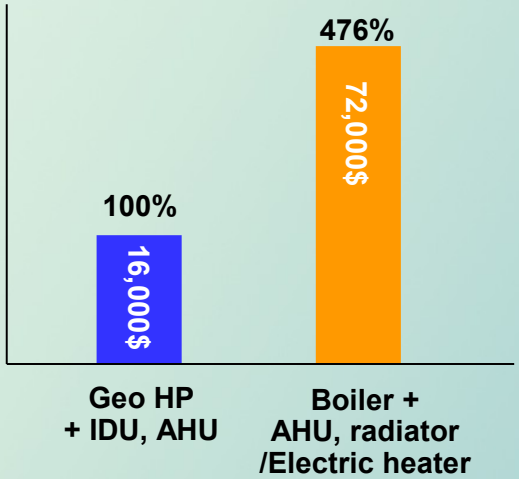
Building Energy Management system (FCS)
Monitoring/Controlling IDU and geothermal system

■ Installation results

★ Initial investment Cost



★ Annual operating cost



★ CO2 emission