

BECON cloud

HVAC Total Management System



About us

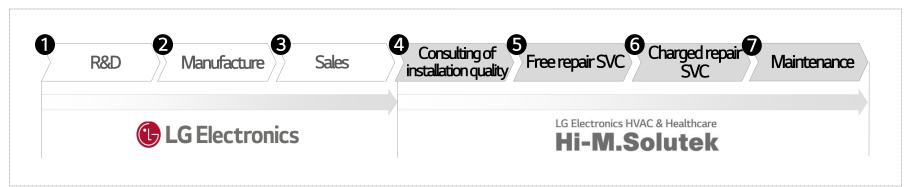
Expert company in service & maintenance for HVAC solution and healthcare electronics



- Hi-M.Solutek
- Foundation: January 3, 2006
- 104.4 billion KRW sales in 2014
- 1,681 professionals in HVAC and healthcare SVC & maintenance

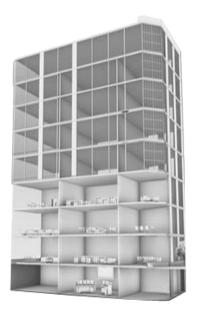
Employees		Note
HVAC	451	371 Engineers
Healthcare	1,190	
Total	1,681	
		asofMay2015

We take care of the final stage of System Air Conditioner business value chain





BECON Cloud provides HVAC-specialized solution through an entire life cycle of LG CAC



BMS in general

Manages various facilities & systems of different brands in building

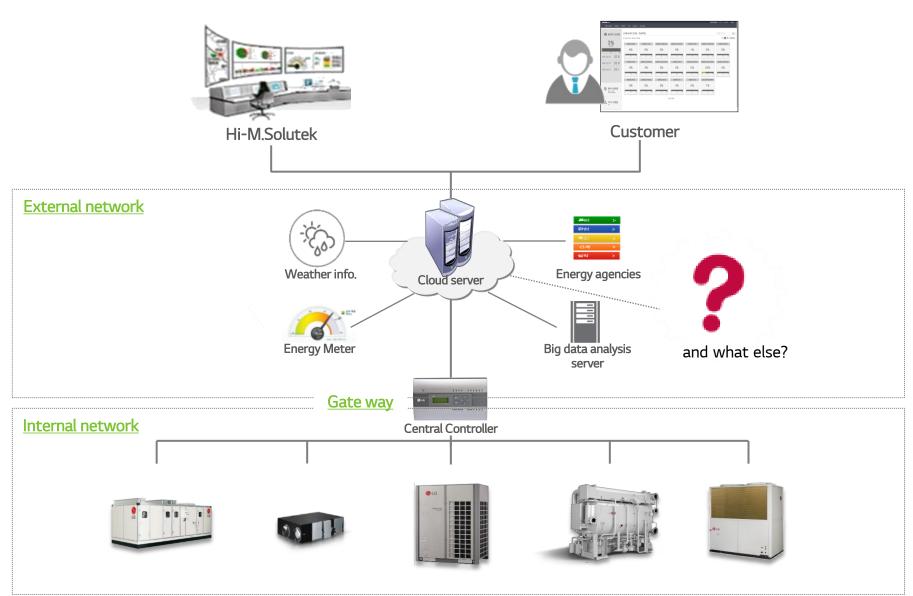


BECON Cloud

Specializes in total care of LG HVAC from the maintenance to energy solution

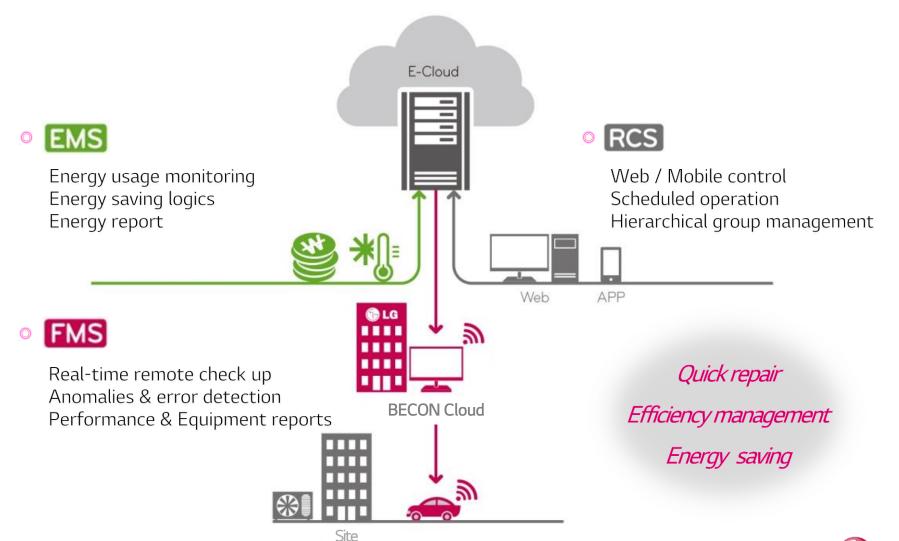






FIMS
Facility Maintenance

RCS Remote Control EMS Energy Management Customer Value



Real-time on-line prevents breakdown





Maintenance Cost



Quick Repair



Reports



Product Life Management



- Anomalies and errors
- Network connection

- Cycle
- Operation history & pattern



BECON Solution FIMS
Facility Maintenance

RCS Remote Control EMS Energy Management Customer Value

Improved work efficiency in building management

Facility management in general





Maintenance Cost



Quick Repair



Reports



Product Life Management



Disaster

Building

Sewage

Security

Electricity

Facility

FMS of BECON Cloud

HVAC facility maintenance

- Malfunction detection
- Before service
- Periodical reports
- Remote control
 - No need of residential personnel
 - Simplify HVAC management

Improve work efficiency Reduce work resources



BECON Solution FMS
Facility Maintenance

RCS Remote Control EMS Energy Management Customer Value





Maintenance Cost



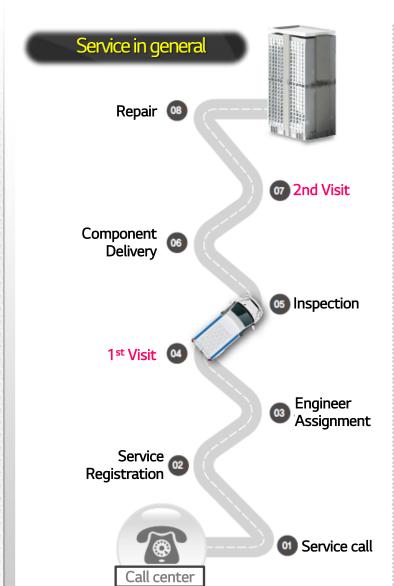
Quick Repair

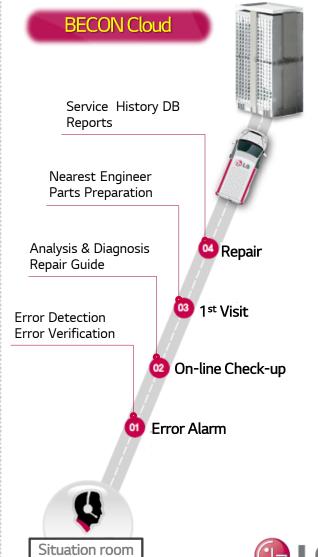


Reports



Product Life Management





Customized solution based on data analysis

Half-yearly reports: Equipment report, Performance report

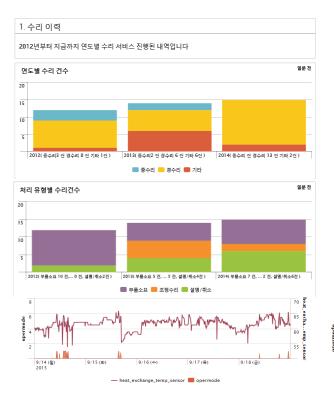


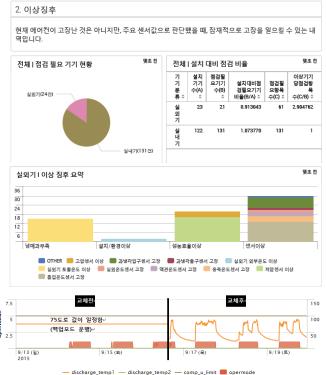














Systematic management extends durability





Maintenance Cost



Quick Repair



Reports



Product Life Management



- Site-customized solution
 - Client's DB based solutions such as analysis of usage patterns & site features



- Malfunction detection
- Monitoring by qualified engineers
- Prevent damages on core parts



- Online pre-inspection
 - Errors and malfunction monitoring on a daily basis



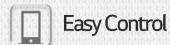
- Timely notice for cleaning
 - Provide cleaning notice based on operation hours and performance data



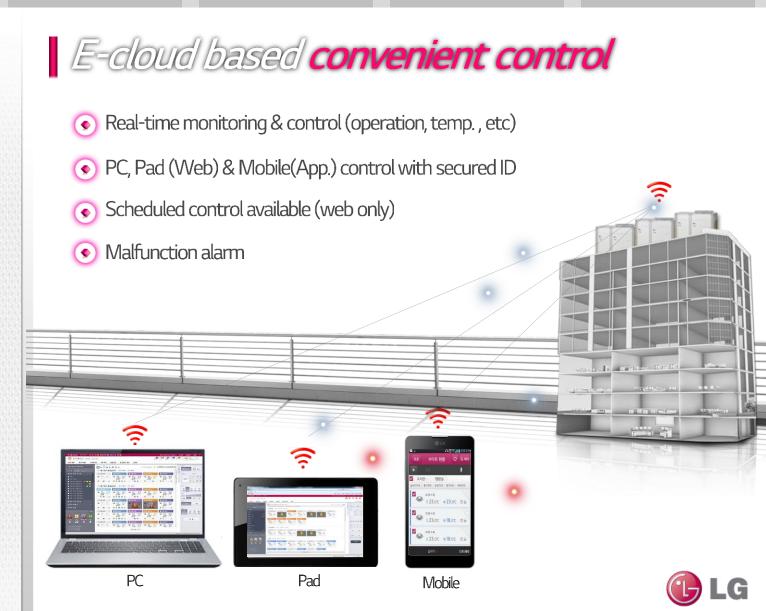
- Product lifespan
- Performance
- Efficiency



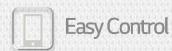






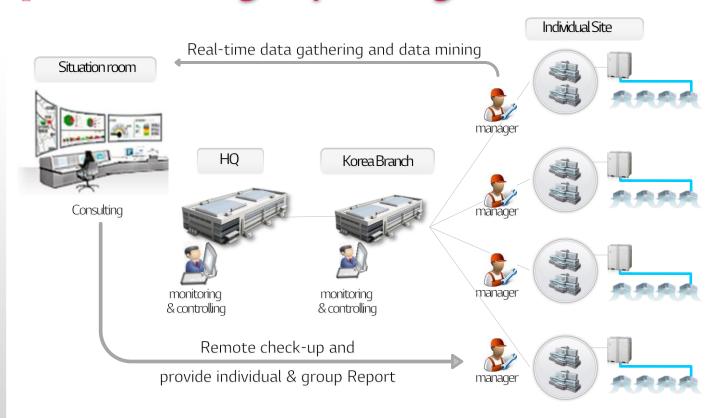








Hierarchical group management



- Monitoring summarized information of multiple sites
 - Operation ratio / Energy Usage / Component Failure Status



FMS
Facility Maintenance

RCS Remote Control EMS Energy Management Customer Value





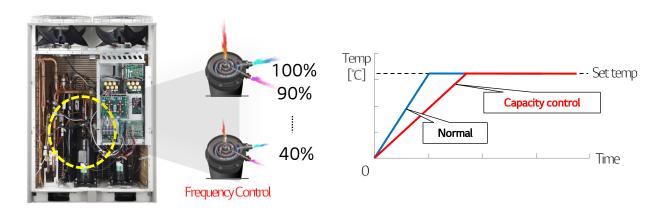
Energy saving logics



Energy consulting

Minimizes comfort level decline

- No need of turning off
- Subtle change on indoor comfort level



Compare to Fuel Efficiency

Engine Tune-up Eco driving mode



FMS
Facility Maintenance

RCS Remote Control EMS Energy Management Customer Value

EMS report: indicator for wiser energy management

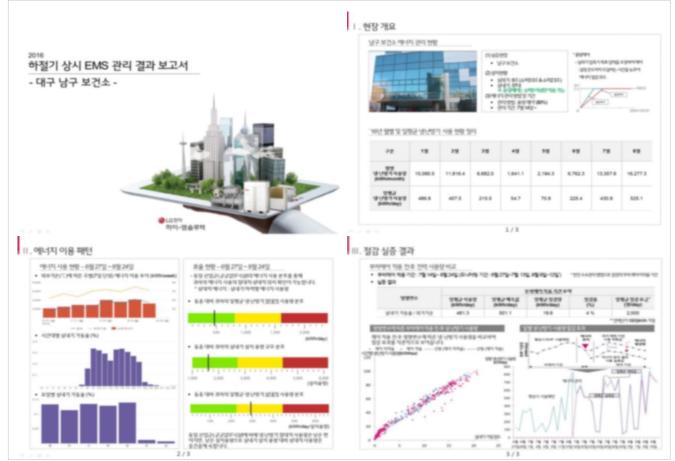




Energy saving logics



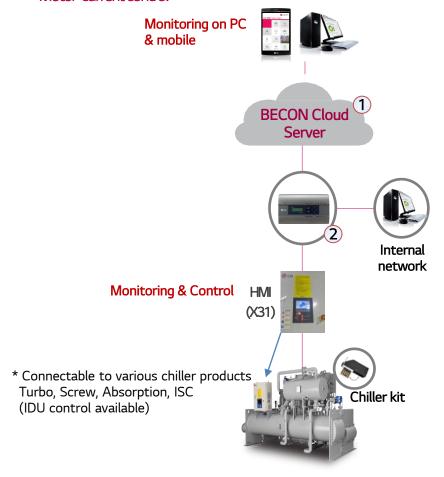
Energy Consulting





Chiller connectivity

- * What are available with BECON Cloud Chiller?
 - Operation monitoring
 - Motor current control



Operation monitoring on BECON Cloud sever



Operation monitoring on ACP IV



BECON Cloud is an optimized management solution for HVAC facilities



Repair Cost

 Detect minor troubles to prevent serious malfunction or the entire breakdown of facility

Maintenance Cost

 Minimize operating cost and resources by simplifying HVAC management task

Product Life

- Data based systematic management extends product life
- Overhaul cleaning



Easy Control

- PC / Pad / Mobile
- Real-time/scheduled

Quick Repair

- Non-stop service from detection to repair

Reports

- Data summary and analysis
- Equipment & performance
- Repair history



Lower Electric Fee

- Improve efficiency
- Save energy by logic

Energy Consulting

- Energy consumption patter
- Visualization of saved amount and bill



LG Electronics HVAC & Healthcare

Hi-M.Solutek