Improving the Energy Efficiency of Commercial Buildings by Utilization of High Efficiency Equipment

Yuko Vietnam Co., Ltd.

4th December 2020

- 1. Company Profile
- 2. Project Summary
- 3. Introduced Technologies & Effects
- 4. Introduction of Navigation BEMS

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Company Profile(Yuko-Keiso Co., Ltd.)

Company Name	Yuko-Keiso Co., Ltd.	
Established	December 1963	
Capital	100,000,000 JPY (about 21,584,408,300 VND)	
Lines of Business	 Designing, installation and maintenance of instrumentation systems and automatic control systems Designing, installation and maintenance of equipment for telecommunications, security, emergency, electricity and airconditioning Sales of instrumentation devices and automatic control devices Architectural designing and supervision of building construction and consultation for facilities management 	
Sales	3,520,000,000 JPY (the term ended May 2018) (about 759,771,172,160 VND)	
Number of employees	179	
Office	Tokyo [Head office], Tochigi, Saitama, Yokohama, Hanoi	

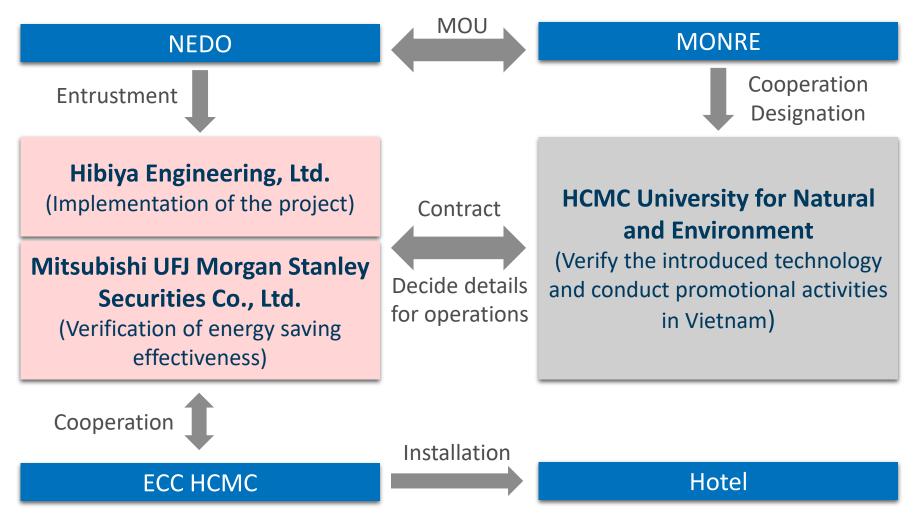
Company Profile (Yuko Vietnam Co., Ltd.)

Company Name	Yuko Vietnam Co., Ltd.	
Established	July 2012	
Capital	135,000 USD (about 3,121,807,500 VND)	
Lines of Business	 Consulting and engineering service for BMS (Building Management System) Consulting for energy saving projects (Join Crediting Mechanism and Bilateral Offset Credit Mechanism) Design, installation and maintenance of electrical systems, automatic control measurement and energy monitoring systems Energy monitoring and system diagnosis 	
Number of employees	7 (2 Japanese & 5 Vietnamese)	
Address	Floor 1 and 2, No. 3, 62 Lane, Truc Khe street, Lang Ha ward, Dong Da district, Hanoi, Vietnam	

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Scheme and Role

JCM Feasibility Studies and Demonstration Projects FY 2013



Target Hotel

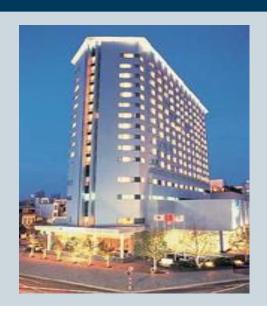
Selected five-star hotels in Ho Chi Minh City and Hanoi

Renaissance Riverside Hotel Saigon



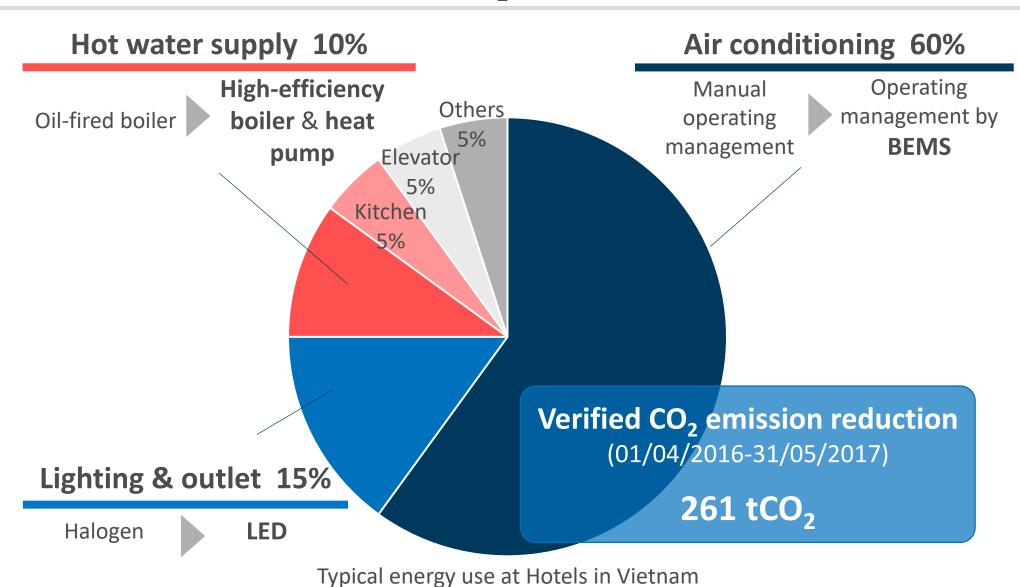
Usage	Hotel
Completion	1998
Scale	21 stories
Total floor area	29,539 m ²
Number of rooms	349 rooms

HOTEL du PARC HANOI



Usage	Hotel
Completion	1998
Scale	15 stories
Total floor area	29,163 m ²
Number of rooms	257 rooms

Introduced Technology and CO₂ Emission Reduction



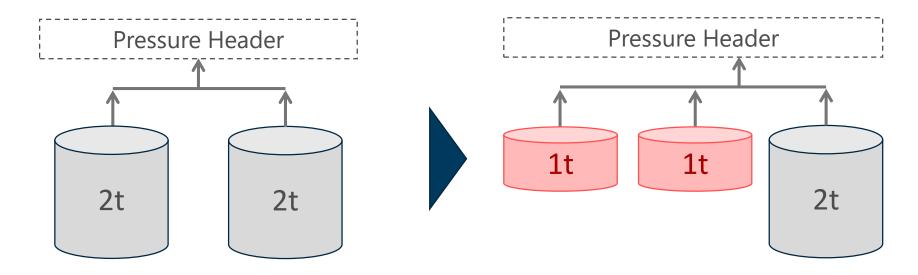
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Manufacturer

MIURA Co., Ltd.

Advantage

- High energy efficiency compared with conventional one
- Operate optimum number of boilers

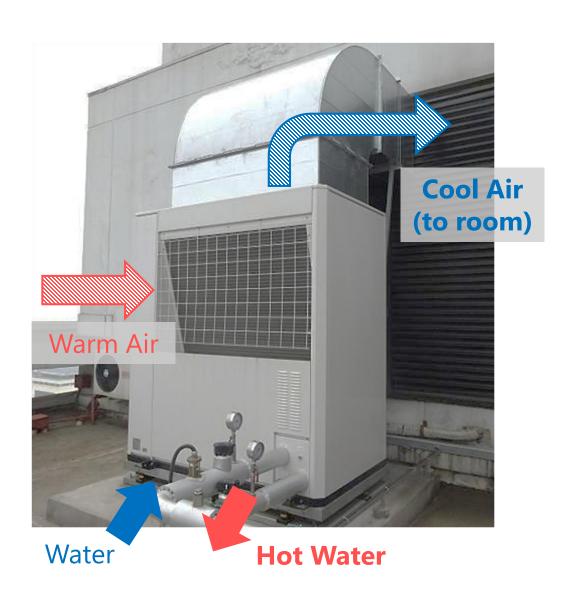


Manufacturer

MAYEKAWA MFG. CO., LTD

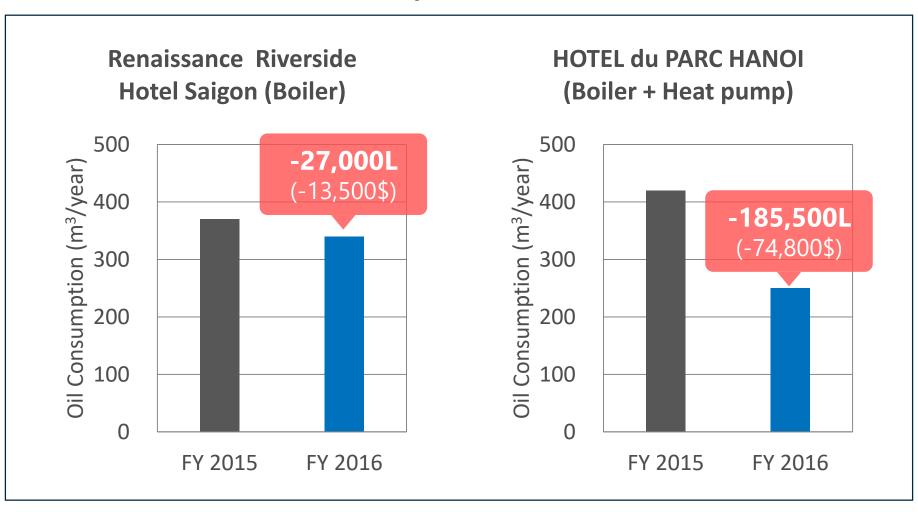
Advantage

- Make Hot water & Cool air at once
- High energy efficiency compared with using boiler



Effects by Introducing High-efficiency Boiler & Heat Pump

Oil consumption in each hotel



Manufacturer

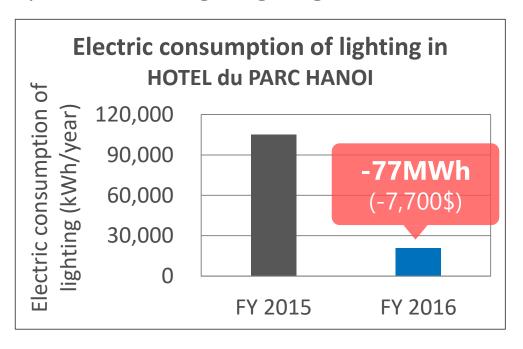
Panasonic Corporation

Advantage

- 2 times brighter than halogen lighting
- 30 % less power consumption compared with halogen lighting

Effects

- 70% less power consumption
- Positive comments from guests

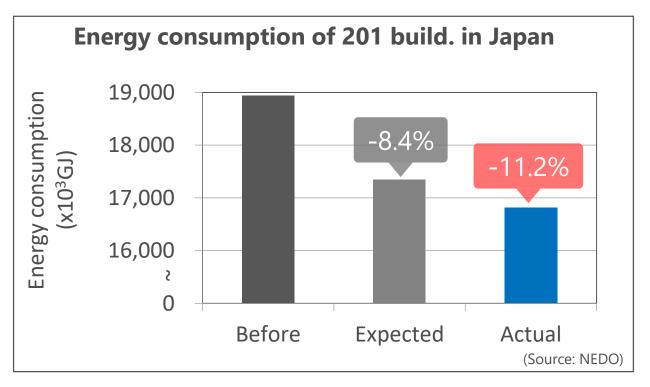


What's BEMS?

- Building Energy Management System
- Improve equipment operation by collecting, analyzing and assessing data

Advantage

Reduce energy consumption by collecting accurate data



V-BEMS (BEMS for building in Vietnam)

Advantage

- Simple and less expensive hardware + Advanced software
- System focused on Air-conditioning which is the largest target



Main function

System chart for current operation status

► Find problems easily without visiting sites

Analysis of energy consumption and operational index

Quantitative data management Export of alarm log and collected data

Advanced analysis

Operation improvement by BEMS

- 1 Optimum operation of cooling water pump
- 2 Optimum operation of chiller system

- 3 Optimum rotation of chiller system
- 4 Making manual for efficient operation
- 5 Review of daily operation







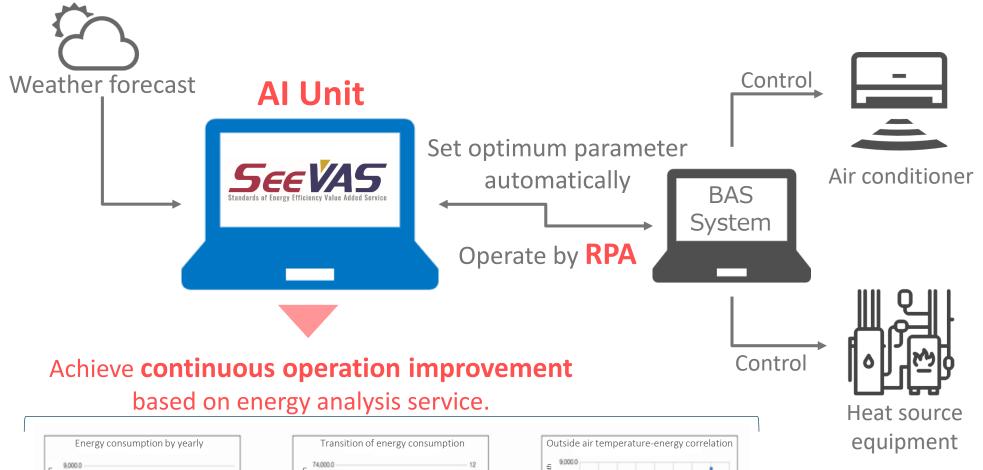
Reduction of Power Consumption by BEMS

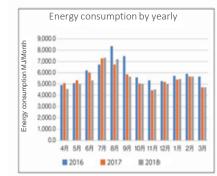


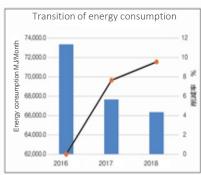


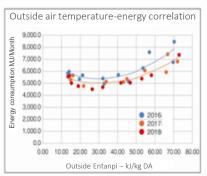
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Navigation BEMS - SeeVAS









Contact Information



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