

**Seminar on the Joint Crediting Mechanism (JCM) Implementation in Moldova  
– Contribution to GHG Emission Reductions in Moldova through the JCM –**

# **Installation of Energy Saving Equipment and Solar Power System to Complex Building in Jakarta**

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# Contents

1. Company Profile
2. Introduction of Project in Indonesia
3. Achievements & Key to Success

# 1. Company Profile

<b>Company Name</b>	Yuko-Keiso Co., Ltd.	<b>Established</b>	December 1963
<b>Office</b>	[Japan] Tokyo (HO), Tochigi, Saitama, Yokohama [Vietnam] Hanoi		
<b>Business</b>	<ul style="list-style-type: none"><li>• Designing, Installation and Maintenance of Building Automation System</li><li>• <b>Consulting services for JCM projects</b></li></ul>		



## Building Automation system

Creating the optimum environments for our clients through Air Conditioning Control Systems, Security Systems and Central Monitoring Systems



## Energy Efficiency

Proposes adding value to buildings, such as improving comfort and energy efficiency through building surveys



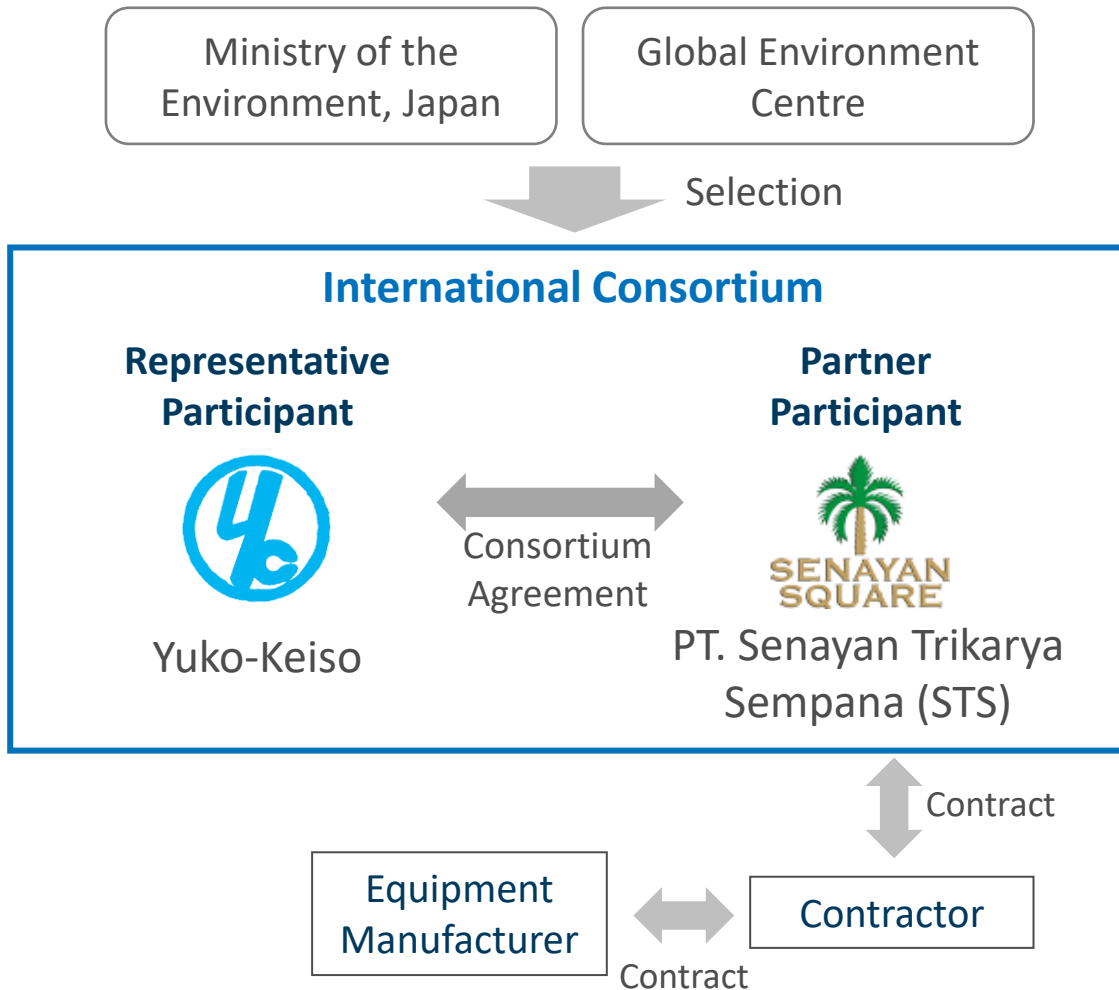
## Consulting Services for JCM Model Projects

Providing comprehensive services i.e. developing and implementing JCM Model Projects as a Representative Participant.

## 2-1. Overview of the Project

### Installation of Energy Saving Equipment and Solar Power System to Complex Building in Jakarta

#### Implementation Structure



<b>Partner Participant</b>	PT. Senayan Trikarya Sempana (Affiliated company of Kajima Corporation in Japan)
<b>Equipment</b>	<u>Renewal</u> High-efficiency Chiller High-efficiency Air Conditioner <u>New installation</u> Solar Power System
<b>Period</b>	<u>Installation Work</u> Feb 2023 – Dec 2023 <u>Monitoring</u> 2024 – 2038 (Chiller & AC) 2024 – 2040 (Solar Power System)

## 2-2. Project Site



### Senayan Square Complex

Developed and operated by STS

- 2 shopping centers
- 3 office towers
- 4 apartments
- 1 hotel



## 2-3. Installed Equipment & GHG Emission Reductions

Equipment	Installation Site	Q'ty	Expected GHG Emission Reductions
Chiller	Shopping Center	2 units	<b>844</b> tCO <sub>2</sub> /year
	Office Tower I	2 units	
Air Conditioner	Shopping center	Outdoor unit: 2 units Indoor unit: 21 units	<b>432</b> tCO <sub>2</sub> /year
	Shopping Center Annex	Outdoor unit: 2 units Indoor unit: 20 units	
Solar Power System	Building roof top	Size: 0.3MW	<b>217</b> tCO <sub>2</sub> /year
			<b>Total: 1,493</b> tCO <sub>2</sub> /year

# 2-4. Before/After

	Chiller	Air Conditioner	Solar Power System
Before			
After			

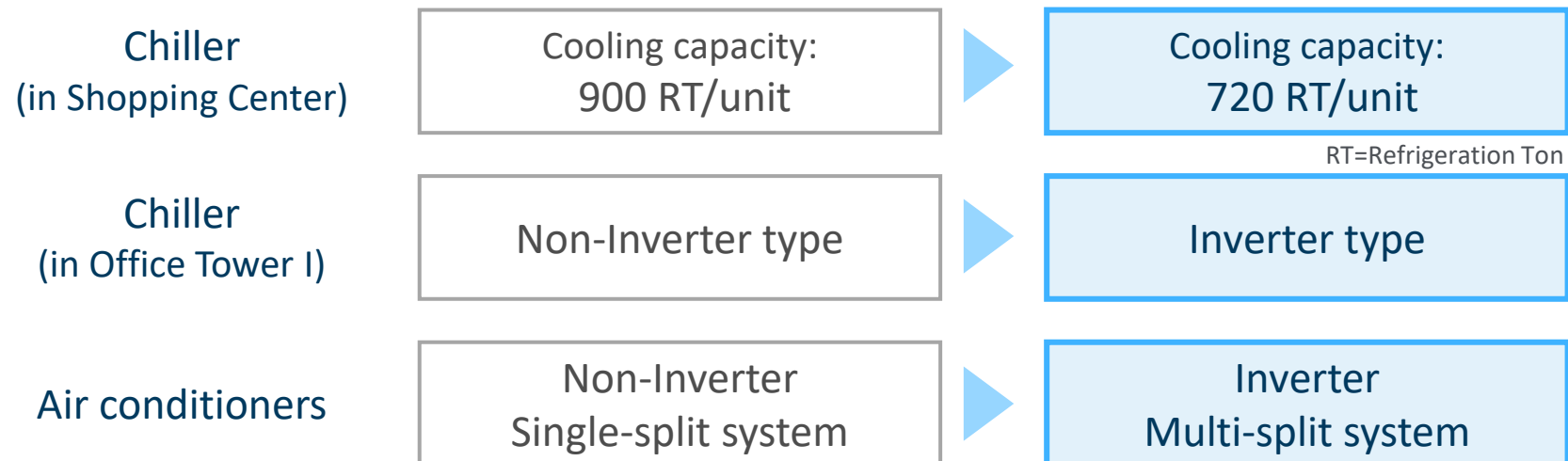
## 2-5. Project Features

### Integration of energy efficiency with renewable energy

Installed energy efficiency equipment (chillers & air conditioners) & renewable energy equipment (solar power system)

### Selecting and introducing equipment with optimum specifications

Determined the specification based on past operation results





## 3-1. Achievements

### ✓ Subsidy through JCM Model Project allows for large-scale renewal

- STS has installed energy-saving equipment with a quick return on investment.  
E.g. LED lights, Inverters for ventilation fans
- This project is large-scale equipment renewal and requires significant investment costs, but **the JCM subsidy made the project feasible.**

### ✓ Contribution to sustainable urban development in Indonesia

- Introducing advanced equipment with low environmental impact and maintaining it for 15 or 17 years will **contribute to reducing the frequency of construction work** with high environmental impact.
- Senayan Square is one of the landmarks of Jakarta, and it is expected to have **ripple effects on other cities and buildings in Indonesia as a “Long-Life Model Project”** for urban development that reduces environmental impact over their life cycle.



## 3-2. Key to the Success of JCM Model Projects

### **Close and Constant Communication between Representative Participant and Partner Participant**

- To implement the projects smoothly;
  - Discuss and develop a detailed plan in the consortium
  - Share information about problems and manage risks together
- To ensure long-term monitoring;
  - Establishment of sustainable monitoring systems and continuous cooperation between Representative Participant and Partner Participant

