



City to City Collaboration between Kawasaki city and DKI-JKT (Green Building)

Seminar on the Joint Crediting Mechanism (JCM) Implementation
in Indonesia

24 July, 2018 (Tue)

Nippon Koei Co., Ltd.

1. Overview (1/2)

1-1. Outline of City to City Collaboration between Kawasaki city and DKI-JKT

Period

- ▶ Phase1 : September 2017 – March 2018
- ▶ Phase2 : **April 2018 – March 2019**

GOAL

Realization of sustainable low carbon society in DKI-JKT

Main Activity

(1) Feasibility Study for JCM project

- ▶ **Identify potential JCM model projects** in DKI-JKT
- ▶ **Apply to JCM model project** based on a result of the feasibility study

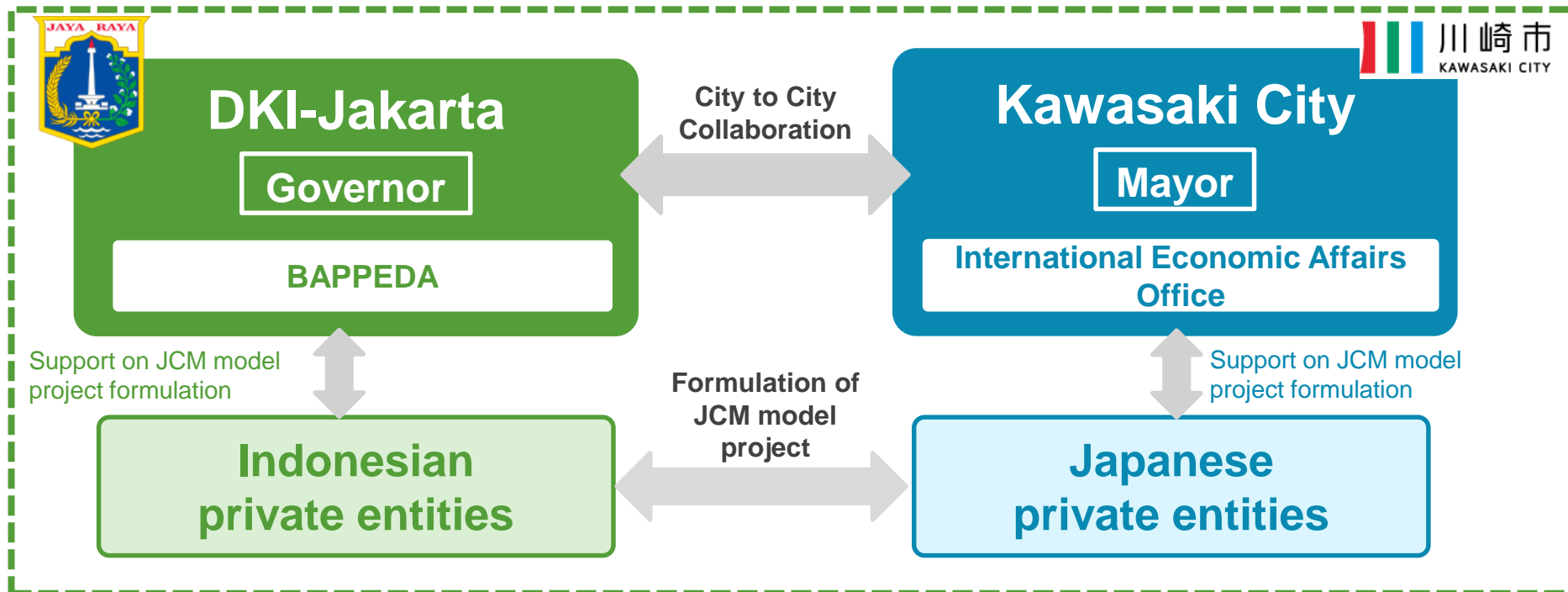
(2) City to City collaboration

- ▶ **Transfer experiences or knowledge** each other
- ▶ Discuss together how to solve environmental issues of DKI-JKT



1. Overview (2/2)

1-2. Implementation Structure of the city to city collaboration



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- ▶ Support of city to city collaboration activities
- ▶ Implement feasibility study to formulate JCM model project with the cities and private entities

2. Feasibility Study for JCM model project on Green Building (1/3)

2-1. Background to select Green Building sector as JCM model project

Priority Sectors in DKI-JKT

Green Building

Solid Waste

Renewable Energy

Urban Transportation

Main actions

Formulation of JCM model project

- ▶ Transferring knowledge/ experiences from Kawasaki city to DKI-JKT
- ▶ Collaboration to solve these environmental issues

2-2. Business Matching in Jakarta in FY2017

Purpose

- ▶ To identify prospective JCM model projects
- ▶ To know each other to create future business opportunity



Presentation by Kawasaki city



Presentation on Green Building regulation



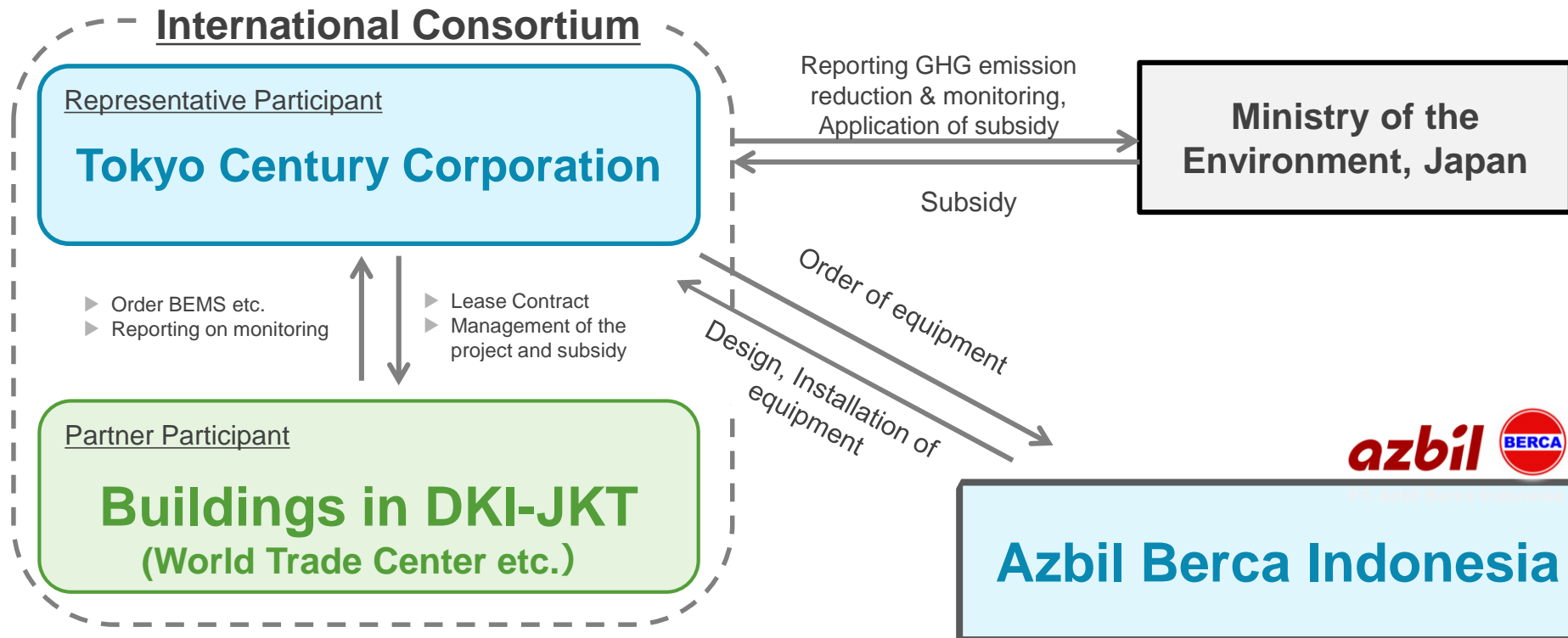
Business matching session

2. Feasibility Study for JCM model project on Green Building (2/3)

2-3. Outline of the JCM model project

- ▶ **Installation of air conditioning energy-saving technologies into the office buildings (Approx. 10 buildings)** in central DKI-Jakarta.
- ▶ The technologies will be provided by **PT. Azbil Berca Indonesia** (local subsidiary of Azbil Corporation), a leading company on building automation business.

2-4. Prospective International Consortium

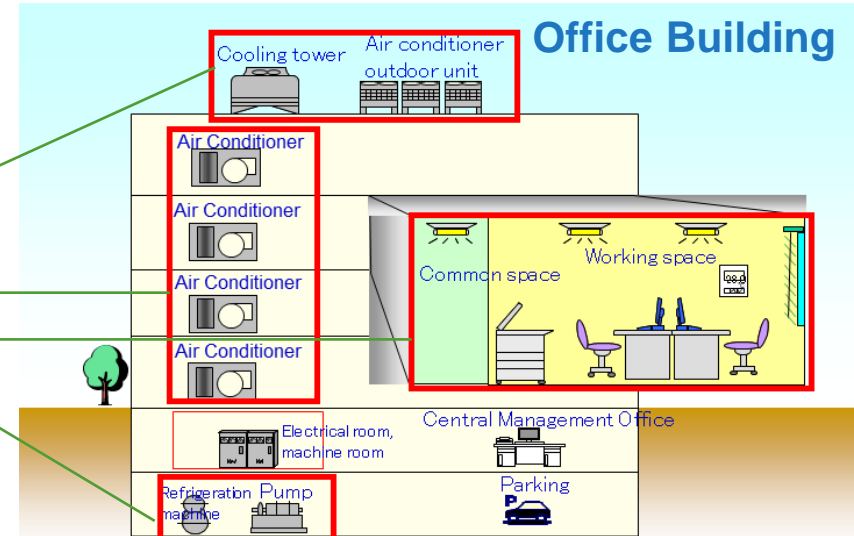
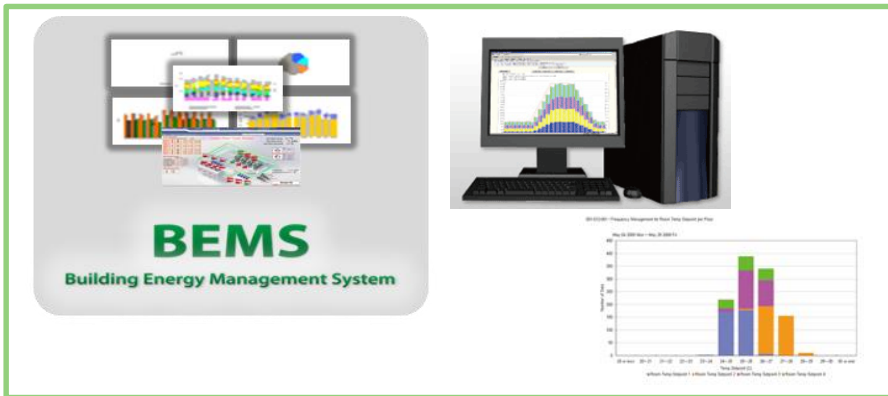


2. Feasibility Study for JCM model project on Green Building (3/3)

2-5. Expected Installed Technology

BEMS (Building Energy Management System)

A system realizing effective energy management and optimum facility control



Source: Azbil Berca Indonesia

2-6. Technology replication opportunities

Potential

Very High in Indonesia

There is a **big potential of energy saving in buildings**, but it has not been much invested into the buildings.

PT Azbil Berca Indonesia has

- ▶ many experiences of BEMS in Japan (**over 200 buildings**)
- ▶ **many candidate buildings** in DKI-JKT for green building

3. Expected Schedule

Survey Item	2018										2019	
	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	
(1): JCM model project formulation												
1) Confirmation of existing condition												
2) Creation of monitoring plan												
3) Confirmation of environmental approval etc.												
4) Preparation of International Consortium												
5) Confirmation of project cost, contract, project schedule												
6) Invitation DKI-JKT officers to Japan								☆				
7) Business matching between Kawasaki companies and Indonesian companies									☆ tentative			
(2) Others												
1) Workshop (tentative)											☆	
2) JCM Seminar in Japan organized by MOEJ									☆			
3) Field Survey				☆			☆	☆			☆	
4) Final Report											—	☆

★:Indonesia ☆:Japan