Support on Tourism Future City of Bali Province through City-to-City Collaboration

1) Objective and Introduced technologies
2) Implementation structure
3) International consortium
4) Outline of the city-to-city collaboration
5) Schedule

July 24, 2018 in JKT
1. Objective and Introduced technologies

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1-1. Objective

- In order to materialize a low carbon tourism city in Bali, the project will formulate energy saving / efficiency activities between Bali and Toyama entities.
- Especially, there are three projects considered as JCM model candidates.
  1. Energy efficiency project in tourism facilities (hotel etc.)
  2. Hydropower project on additional power supply
  3. Fuel switch project on public transportation system

1-2. Introduced technologies

<table>
<thead>
<tr>
<th>Activities</th>
<th>Outlines</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction of energy efficiency equipment in tourism facilities</td>
<td>To consider energy saving/efficiency in hotel facilities, such as air-conditioning system, hot water production, boiler operation etc.</td>
<td></td>
</tr>
<tr>
<td>Consideration of renewable energy project</td>
<td>To consider renewable energy project, such as small hydropower or geothermal power project in the mountainous area, biomass generation project with forest resources etc.</td>
<td></td>
</tr>
<tr>
<td>Consideration of low carbon transportation system</td>
<td>To consider low carbon transportation system using fuel switch equipment (diesel oil/coal to CNG), urban transportation system etc.</td>
<td></td>
</tr>
</tbody>
</table>

*The above technologies are just example, and proper manufacturers/ equipment/ specification will be determined based on the result of this study.*
2. Implementation structure

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**Bali province**

- Governor
  - BAPPEDA
  - Related dept.

- Promotion of energy saving projects in Bali province
- IPP developer etc.
- Energy company etc.
- Hotels

- Nippon Koei (Representative Participant)
  - Conduct the city to city collaboration project between Toyama city and Semarang city
  - Support to formulate JCM model project on energy saving equipment installation
  - Support for creating MRV, methodology, and PDD

**Toyama City**

- Mayor
  - Environmental Policy Division

- IGES

- Suiki
- Hokusan
- Toyama Hokuryo

- Support for business expansion of companies in Toyama city etc.
- Development plan for low carbon IP
- Organization of workshop
- Survey for JCM model project formulation

**Activities for achieving the goal**

- City to City Collaboration
- Support for city to city collaboration
- Survey for JCM model project formulation
- Business matching
- Support for creating MRV, methodology, and PDD
3. International consortium, tentative image

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International Consortium

Representative:
Japanese entities (to be identified)
- Management of JCM model project
- Reporting of monitoring result

Partner:
Indonesian entities (Bali province)
- Site supervision of high efficiency equipment/product installation, progress management
- Monitoring

Joint Implementation

Ministry of the Environment, Japan
- Order
- Subsidy
  - Request for subsidy, reporting etc.

Bali province
- Advise, support etc.

Toyama entities Manufacturers
- Procurement etc.
  - Order

Toyama city
- Advise, support etc.
4. Outline of the city-to-city collaboration (1/2)

Support on Tourism Future City of Bali Province through City-to-City Collaboration

6-1. Process of the city to city collaboration between Bali and Toyama

<table>
<thead>
<tr>
<th>Date</th>
<th>Outlines</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mar. 21, 2014</td>
<td>Conclude technical cooperation on sustainable energy supply project in Tabanan prefecture</td>
</tr>
<tr>
<td>Nov. 28, 2017</td>
<td>Conclude technical cooperation on environmental management between Toyama and Bali</td>
</tr>
</tbody>
</table>

6-2. Activities of Toyama and expected outcomes by city-to-city collaboration

**Toyama**
- Experiences as an environment city
  - Environment model city (2008)
  - Environment future city (2011)
  - UN SE for ALL (2014)
  - G7 Toyama meeting
- Advanced activities
  - Share Toyama experience on Environment future city Toyama through the C2C collaboration
  - Promotion of recycling system on eco town, such as Toyama eco town IP etc.

**Bali**
- Support on policy make contributing to realization of future tourism city
- Achievement of sectoral mitigation target on tourism sector
- Enhancement plan of low carbon public transportation
6-3. Strategic steps for achievement of low carbon society

Clarification of JCM potential in Bali
Selection of JCM model projects
Study for energy saving/efficiency potentials and incentives
Formulation of JCM model projects
Target setting of emission reduction
Realization of low carbon future tourism city

6-4. Effect of city-to-city collaboration

Realization of future tourism city

MOEJ program
FY2018: CtC collaboration (Toyama & Bali)
- JCM model project (EE/RE/LCST)
- City-to-city menu
  1) Study on EE in Tourism facilities
  2) Study on RE utilizing regional characteristics
  3) Study on compact city
  4) Collaboration on future tourism city

JICA program
- JICA Tech assistance
- JICA grass root

Other program
Others
NEDO study, GCF etc.

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## 5. Schedule, tentative

Support on Tourism Future City of Bali Province through City-to-City Collaboration

<table>
<thead>
<tr>
<th>Item</th>
<th>2018</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Study Item</strong></td>
<td>May</td>
<td>Jun</td>
</tr>
<tr>
<td>1 Selection of JCM model projects in three sectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Preparation of international consortium</td>
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<td></td>
</tr>
<tr>
<td>3 Confirmation of environmental approval etc.</td>
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<td></td>
</tr>
<tr>
<td>4 Potential study of JCM model projects</td>
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<td></td>
</tr>
<tr>
<td>5 Study for JCM application condition</td>
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<td></td>
</tr>
<tr>
<td>6 Business matching of Toyama companies, if necessary</td>
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<tr>
<td>7 Formulation of energy saving promotion program</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>(2) Field survey/Workshop</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
</tr>
</thead>
</table>
| 1 Kick-off meeting | | | | | | | | | | | ★
| 2 Meeting with Bali/Field survey | | | | | | | | | | | ★
| 3 Workshop | | | | | | | | | | | ★

<table>
<thead>
<tr>
<th>(3) Monthly report • Meeting in Japan • Conference etc.</th>
<th>May</th>
<th>Jun</th>
<th>Jul</th>
<th>Aug</th>
<th>Sep</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Monthly report</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
<td>★</td>
</tr>
</tbody>
</table>
| 2 Meeting in Toyama city | | | | | | | | | | | ★
| 3 Progress meeting (MOEJ) | ★ | | | | | | | | | | ★
| 4 JCM seminar organized by MOEJ | | | | | | | | | | | ★
| 5 Invitation of Bali officers to Japan | | | | | | | | | | | ★
| 6 Final report | | | | | | | | | | | ★
Map of Bali Province

Source:https://www.bali.com/map.html