



25 October 2018

Collaboration with Ayeyarwady Region and Sagaing Region (Myanmar)

**Partnership for Low Carbon Initiative
among Fukushima City, Ayeyarwady
Region, and Sagaing Region**



Introduction of Fukushima City



Fukushima City



Introduction of Fukushima City

**Anamaya
graced by various blossom**



Introduction of Fukushima City



Bandai-Azuma Skyline

Introduction of Fukushima City

Iizaka Onsen



Tuchiyu Onsen



Takayu Onsen



Introduction of Fukushima City

Fukushima City: Fruit of Jewelry BOX



Tokyo Olympic
Games 2020

Baseball and
softball Games
in Fukushima City
【2020.7-8】

HOST VENUE



Azuma Baseball Stadium



City-to-city Collaboration for Creating Low-carbon Society

**Challenges for low carbon society
in Ayeyarwady Region & Sagaing
Region through city to city
collaboration**

City-to-city Collaboration for Creating Low-carbon Society

Policy dialogue

Based on experiences in local government systems

Mitsubishi
Research Institute

Fukushima Chamber of
Commerce and Industry

Fujita

Fukushima City

Partnership for
Low Carbon Initiative

Local Company,
Organizations

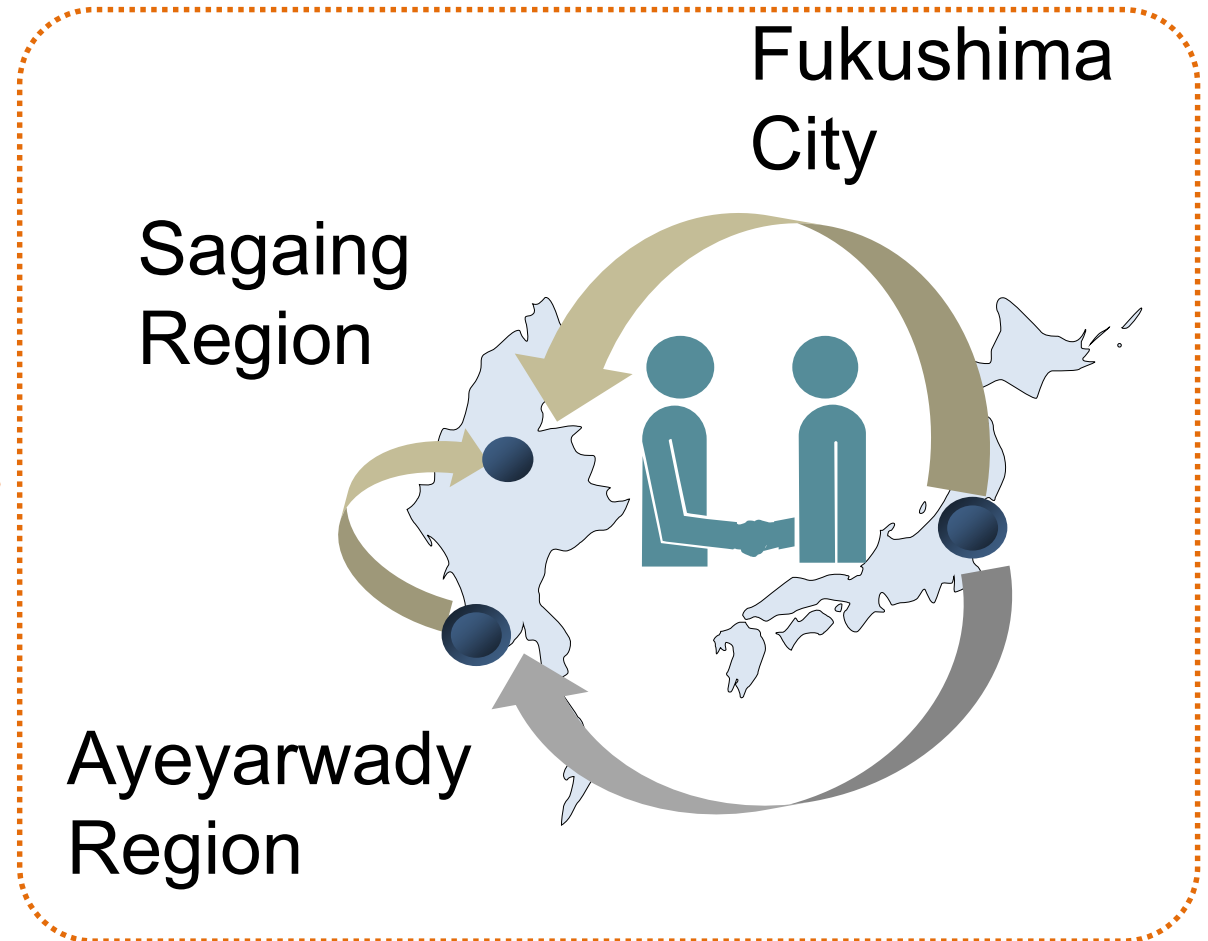
Sagaing Region

**Inter-regional
cooperation**

Ayeyarwady Region

Expansion in Myanmar

By Inter-regional cooperation



City-to-city Collaboration for Creating Low-carbon Society

1 Key achievements: Enlightenment by environmental education



Scattered plastic waste in the backyard of the elementary school



Sending video letter from students at an elementary school in Fukushima City to Elementary school in Ayeyarwady Region

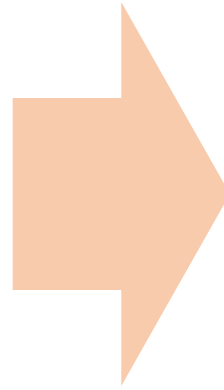


Receiving return video letter from students in Ayeyarwady Region to students in Fukushima



City-to-city Collaboration for Creating Low-carbon Society

2 Key achievements: Waste landfill site in Pathein



Waste is treated by landfill in Pathein City. After the city-to-city dialogue, segregation of waste has been started in the treatment site .

City-to-city Collaboration for Creating Low-carbon Society

3 Key achievements: Expansion into another city



Joint Workshop with Ayeyarwady Region & Sagaing Region
(Feb. 2018, Yangon)



Courtesy visit to the
Minister of Agriculture,
Livestock and
Irrigation(Feb. 2018)

Booth presentation of City-
to-City Collaboration
activities in Naypyidaw
(Mar. 2018. Conference of
Myanmar Rice Federation)

State Counsellor Dew Aung San
Suu Kyi visited the booth, and we
had a chance to explain the activity.



Partnership for Low Carbon Initiative



JAPAN



Myanmar



Policy dialogue

Fukushima City

Ayeyarwady Region
Sagaing Region

Business dialogue

Fukushima Chamber of
Commerce & Industry

Mitsubishi
Research Institute

Business
organizations

(e.g. Chambers of Commerce
and Industry in Myanmar,
Myanmar Rice Federation)

Development of project

Fujita
Corporation

Myanmar company
(e.g. MAPCO)

Workshops and site visiting for facilitating policy formulation under **inter-city cooperation** with Fukushima city, Ayeyarwady region and Sagaing region

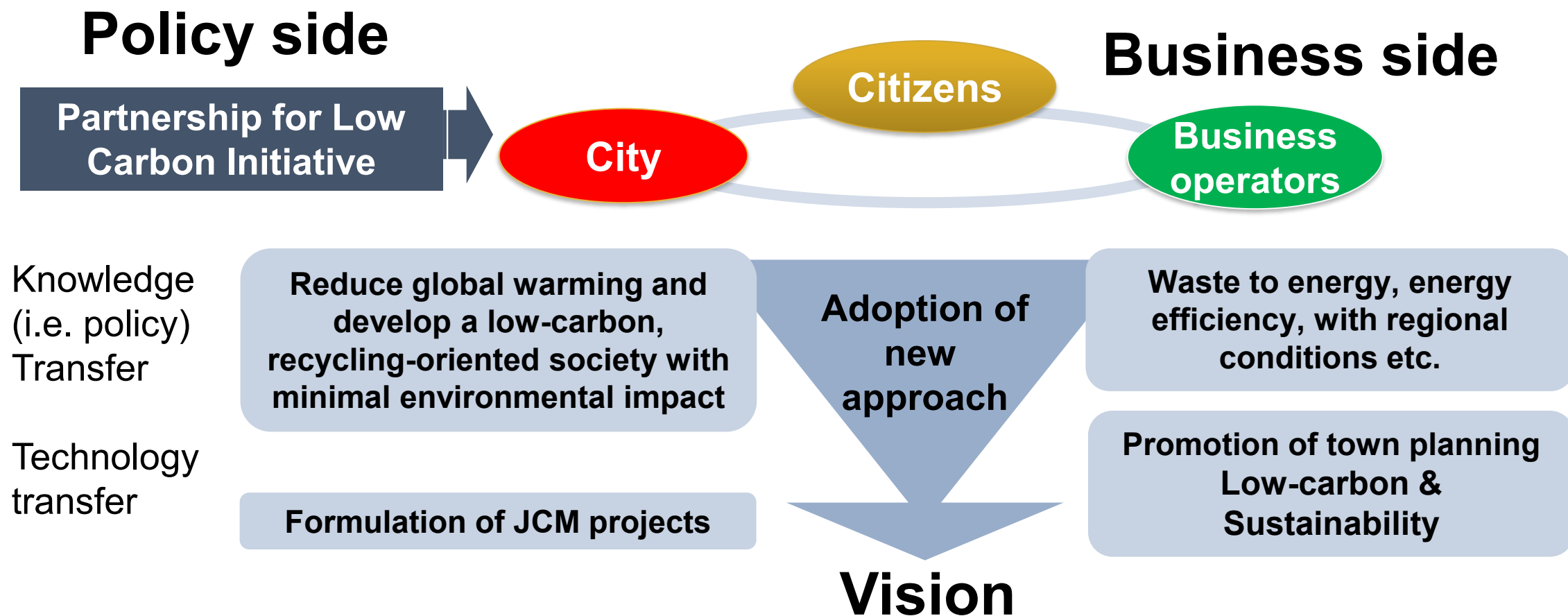
Feasibility study
(JCM Project)

Example of achievement;
Rice Husk Power Generation PJ in Myaung Mya Township
(Under construction)

Partnership for Low Carbon Initiative

Key approach for
Low-Carbon City

Promoting a low-carbon city and building a
sustainable low carbon city (Local city model)



Partnership for Low Carbon Initiative

Target Problem

To secure electricity in a new industrial park
To enhancing utilization of rice husks

Our goals

Finding best solution for low-carbon city

- Developing low carbon industrial park ([Business model](#))
- Facilitating policy formulation by dialogue ([Based on experiences in local government systems in planning and implementation stages](#))

Co-effect in community

- Improvement of energy access
- Sustainable waste treatment system
e.g. rice husks

ACTIVITIES

Feasibility study of [biomass power project](#) using rice husks generated at rice mills. (as Joint Crediting Mechanism (JCM) Project), and [heat using system](#)

Policy dialogue for facilitating policy formulation under inter-city cooperation with Fukushima city (Japan), Sagaing region and Ayeyarwady region (e.g. [Joint workshop](#))

Partnership for Low Carbon Initiative

Strategy for realizing local city model of low-carbon industrial park

- **Business model** for realizing a low-carbon, resilient and sustainable rural city: using energy saving and renewable energy technologies, such as power plant and heat utilization using biomass resources (e.g. rice husks)
- **Social Model (institutional mechanism development)** for smooth project implementation
- **Capacity building** for low-carbonization of industrial park

**New industrial park:
Aggregation area
of processing industry
utilizing local agricultural
products such as rice**



**To formulate a master plan
for low-carbon industrial park**
(i.e. vision, regional model,
approaches)

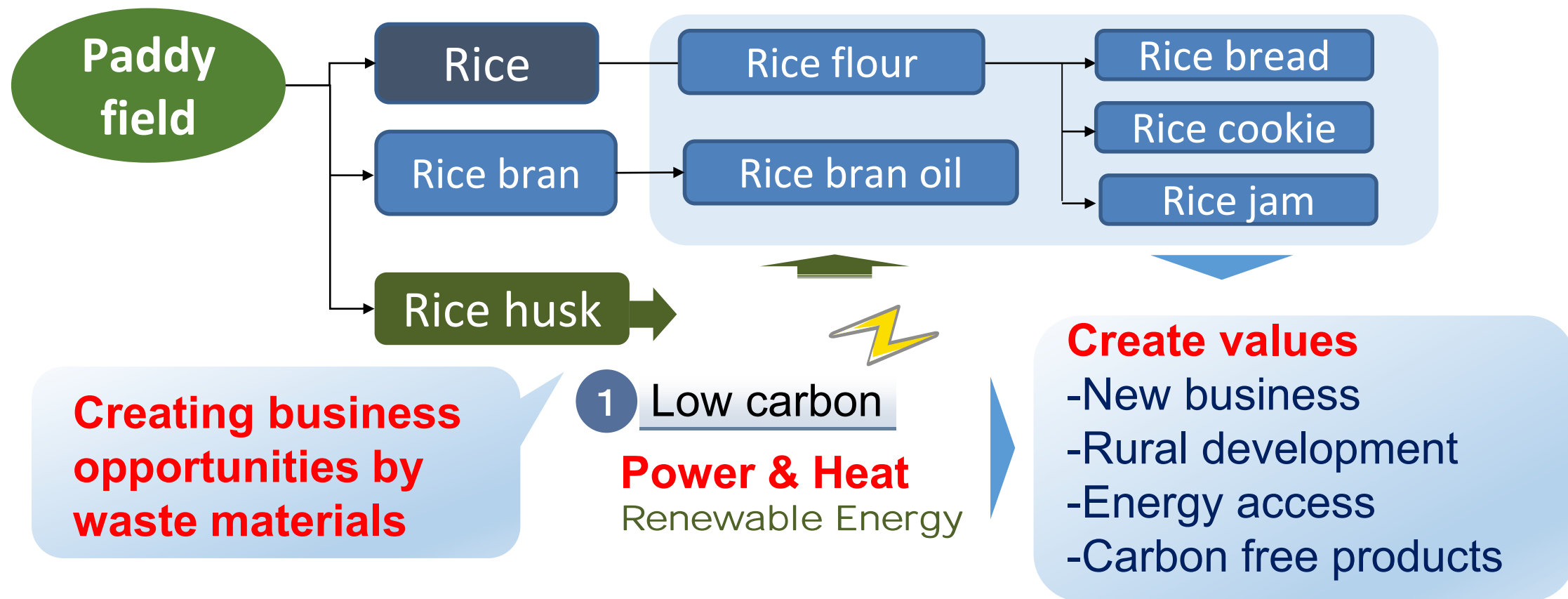
Partnership for Low Carbon Initiative

Vision

Concept of rice complex as low carbon industry by using green energy from rice husks

2 Sustainable rural development

Building rice value chains

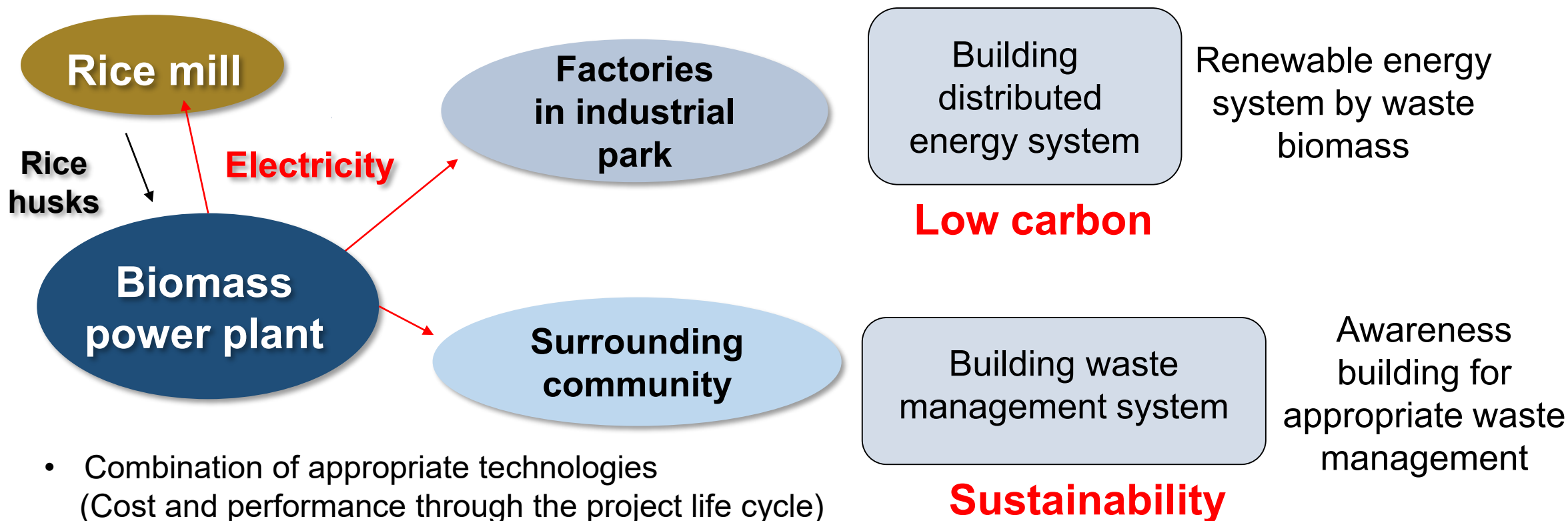


Partnership for Low Carbon Initiative

Regional
model

Creating new regional electric power supply system by biomass power plant using rice husks

Combination of business model & social model



- Combination of appropriate technologies (Cost and performance through the project life cycle)
- O&M system (by localization, training)

Partnership for Low Carbon Initiative

Approaches of institutional development

(i.e. Lessons in Japan)

1

Electricity
market system

- Effective utilization of power grid
(i.e. Wheeling power using existing distribution network)
- Cross regional coordination of transmission
(i.e. Electric Power Exchange)

2

Renewable power
system

- Long term promotion strategy of RE
(i.e. Policy target of energy mix, support mechanisms; feed-in tariffs/auctions)

3

Human resource
development

- Training system for electric worker
(i.e. license of 1st, 2nd electric works)
- Cooperation of business firms
(i.e. Association, union)