

Realizing SDGs- maximizing potentials of the JCM in contributing to sustainable development

10 December, 2019

Today's key topics

1. Linkages and synergies between the PA & SDGs
2. Article 6 of the PA to promote SDGs
 - > Case of the JCM & ADB's Article 6 Support Facility
3. Integration of climate policies and national development plans
 - > Case of Mongolia & Costa Rica
4. JCM's co-benefits contributing to SDGs
 - > Case of Mongolia, Costa Rica and other countries

This presentation provides background information on the topics 1, 2 & 4.

Paris Agreement & SDGs

- Climate actions under the **Paris Agreement**
- SDGs set by the **2030 Agenda for Sustainable Development**

Linkages are widely recognized but remains a challenge.

SDGs ---> Paris Agreement

✓SDG 13 & other SDGs are also linked to climate change mitigation and adaptation actions.

(e.g. Risks of droughts & floods threaten the availability and sustainable management of water and sanitation (SDG 6).)

Paris Agreement/NDC ---> SDGs

✓Climate actions described in NDCs are aligned directly or indirectly with various SDG targets.

Linkages & synergies have the potential to generate one-way or mutual implementation benefits.

Article 6 of the PA promoting SDGs

Article 6 of the Paris Agreement on cooperative approaches offers opportunities for Parties to voluntarily cooperate to promote NDC implementation, sustainable development and environmental integrity.

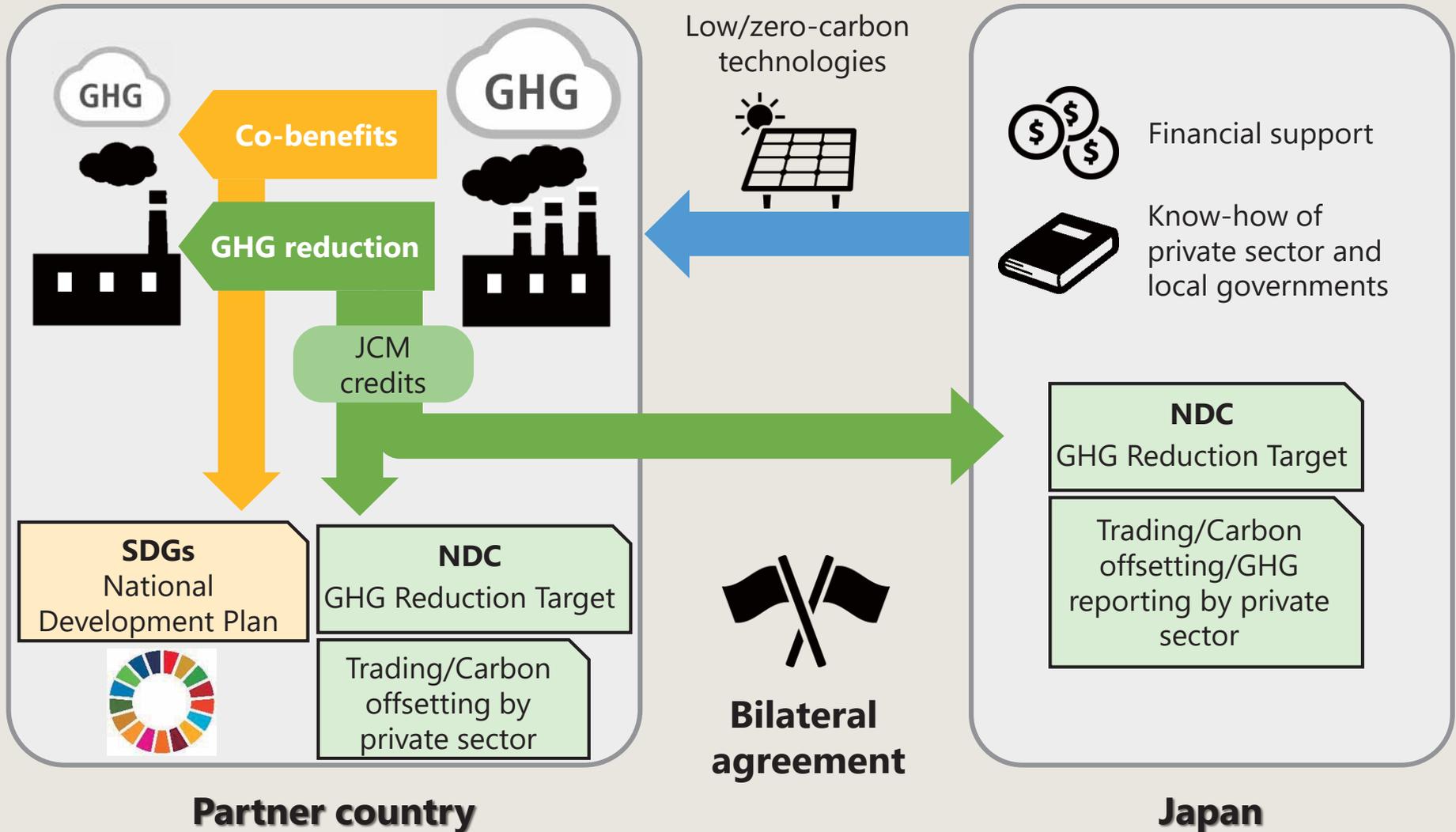


The JCM defines its objective as to promote diffusion of leading low/zero carbon technologies, to implement mitigation actions and to contribute to sustainable development.

Article 6.2 of the Agreement

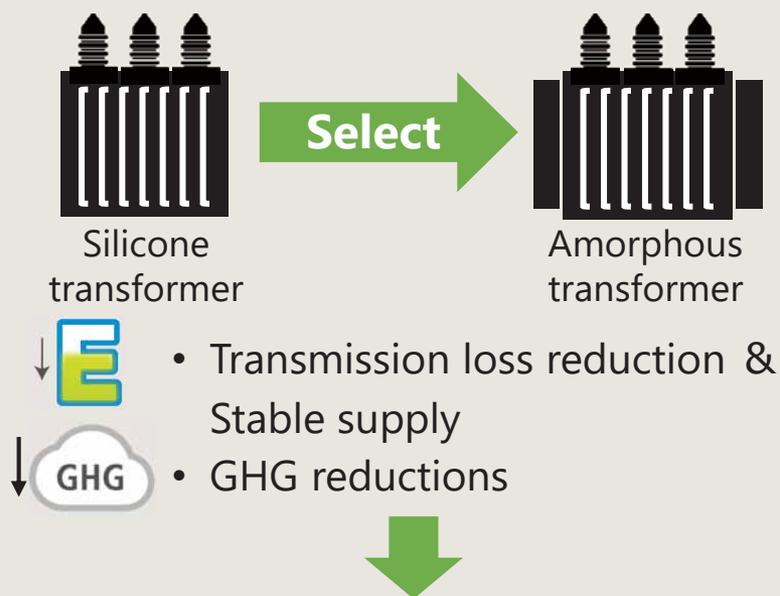
Parties shall, where engaging on a voluntary basis in cooperative approaches that involve the use of internationally transferred mitigation outcomes towards nationally determined contributions, **promote sustainable development** and **ensure environmental integrity** and

JCM's Contribution to Japan and partner countries



JCM Good practice 1

Transferring & replicating low-carbon technology @Vietnam



• More expensive than conventional product
JCM: Reducing initial investment cost



• Environmental performance is not sufficiently considered in procurement process
Local Power Authority : Revising Procurement process



• Challenges for introducing new technology
Cooperation between Japan (amorphous supply) & Vietnam (Transformer production)

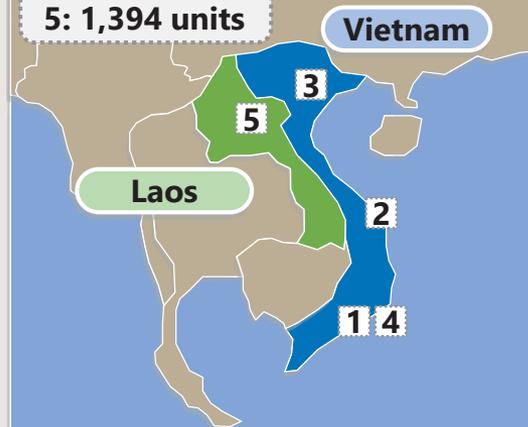
Power loss in Vietnam Electricity's systems has reduced from 7.24% in 2017 to **6.83% in 2018** and over achieved the target of 7.2%. *EVN news

Ensure the balanced capacity of power sources in each region: ensuring the reliability of electricity supply in each regional electricity system so as to **reduce losses of transmissions**, share the electricity yield and efficiently exploit hydropower plants in rainy and dry seasons.

*Revised National Power Development Master Plan for the 2011-2020 (2016)

Achievement (Since 2014)

- 1: 1,618 units
- 2: 4,843 units
- 3: 4,965 units
- 4: 2,145 units
- 5: 1,394 units



JCM



JCM Good practice 2

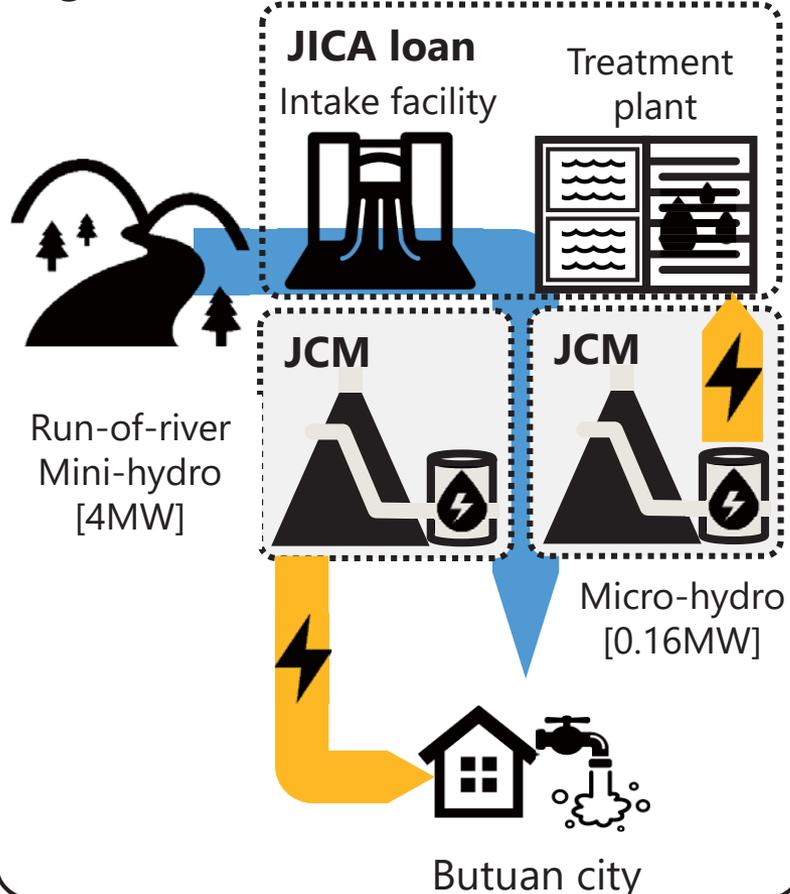
Promoting low-carbon economic development @Philippines



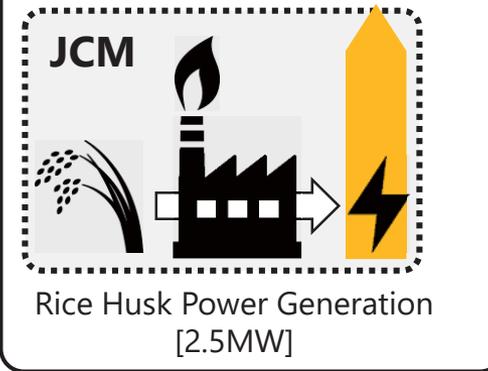
Regional low-carbon economic development is promoted under a PPP business by Japanese and Philippines' companies leveraging JCM Model Project scheme.

Energy projects in Caraga region, Mindanao Island

Taguibo River Bulk Water Concession



Low carbon Industrial Park



Other projects

- ❑ Asiga river mini-hydro (JBIC loan)
- ❑ Wawa river mini-hydro (under consideration)
- ❑ Wind power (under consideration)

 Low electrification rate & Electricity shortage
⇒ Renewable energy development

 GHG reduction by renewable energy
⇒ 3 JCM Projects: 15,000 t-CO₂ reduction/year

 Increasing water demand in Butuan city
⇒ Stable water supply to 350,000 citizens

 Job creation in the region
[Direct: max 50,000/Indirect: max 250,000]



Introduction of LED lighting utilizing wireless network

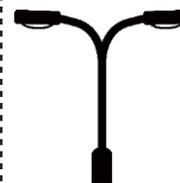
JCM Model Project (@Phnom Penh & Siem Reap)



- Electricity consumption -55% by high efficient lighting & -15% by wireless control
- GHG emissions -70%

LED lighting [5,672 units] with wireless network

Other project (ongoing)



- Phnom Penh
- Siem Reap
- Sihanoukville

LED lighting [Over 7,000 units]

Projects for realizing smart city (Under development)



Wireless network



Cloud network

Developing an integrated system to monitor various data in cities using parking sensors, electricity meters, CCTV, etc.

[Programs towards realizing smart cities in Cambodia]

- 'ASEAN Smart City Network' selected Phnom Penh, Siem Reap and Battambang as pilot cities.
- Japan is supporting Cambodia's smart city activities through 'ASEAN-Japan Smart Cities Network' and 'Public-Private Platform for Urban Development between Cambodia and Japan'.

Thank you for your attention!

Find more about JCM on the website:

Carbon Market Express: <https://www.carbon-markets.go.jp/eng/>



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