

Linkages between the JCM and SDGs

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Outline

- **Climate change and SDGs: JCM application**
- **Key findings from IGES report “JCM contributions to SDGs”**
 1. Contributions to multiple goals and targets
 2. Implementing projects in different sectors
 3. Expanding JCM’s contributions to the SDGs
- **Impacts and responses of the COVID-19: JCM potentials**

JCM introduction

- **Joint Crediting Mechanism (JCM):**

Diffusion of leading low carbon technologies, products, systems, services, and infrastructure as well as implementation of mitigation actions, and contributes to sustainable development of developing countries.

- **Current status:**

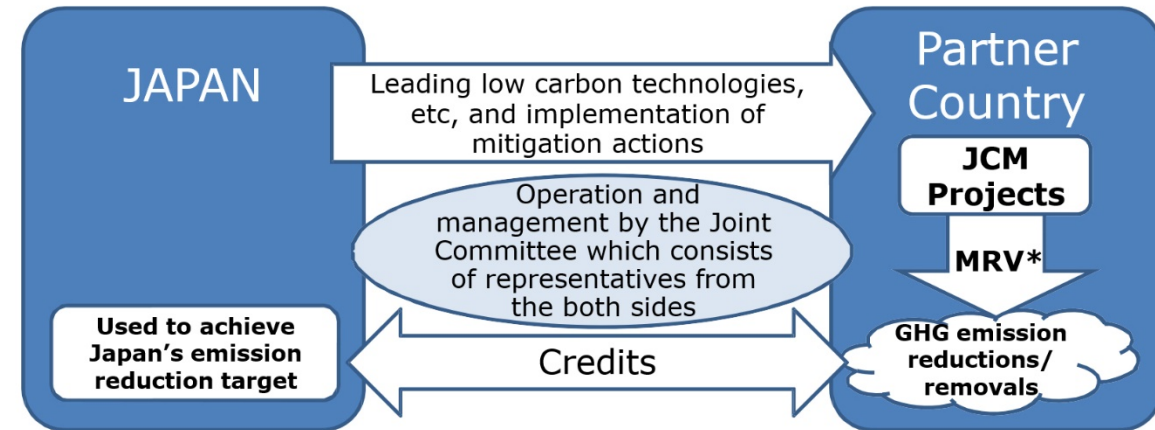
17 partner countries and more 165 projects

By 2030, the expected GHG emission reduction is 13.7 million ton

- **Introduced technologies:**

Renewable energy power generation technologies (Solar, hydro, biomass)

Energy efficiency technologies (air-conditioning system, gas co-generation, transmission system)



Climate change and SDGs: JCM application

Clean energy (Goal 7), Sustainable industry (Goal 9), Sustainable consumption (Goal 12)¹

**GHG emission reduction,
Transition to low and
de-carbonization society**



Agenda 2030, the universal blueprint for the sustainable society

**The JCM supports
the ambitious
global frameworks**



**Holding the increase in the global
avg. temperature to below 2°C
above pre-industrial levels**

**To support the SDGs
achievement**

If the global warming were limited to 1.5°C, SDGs can be easily achieved²

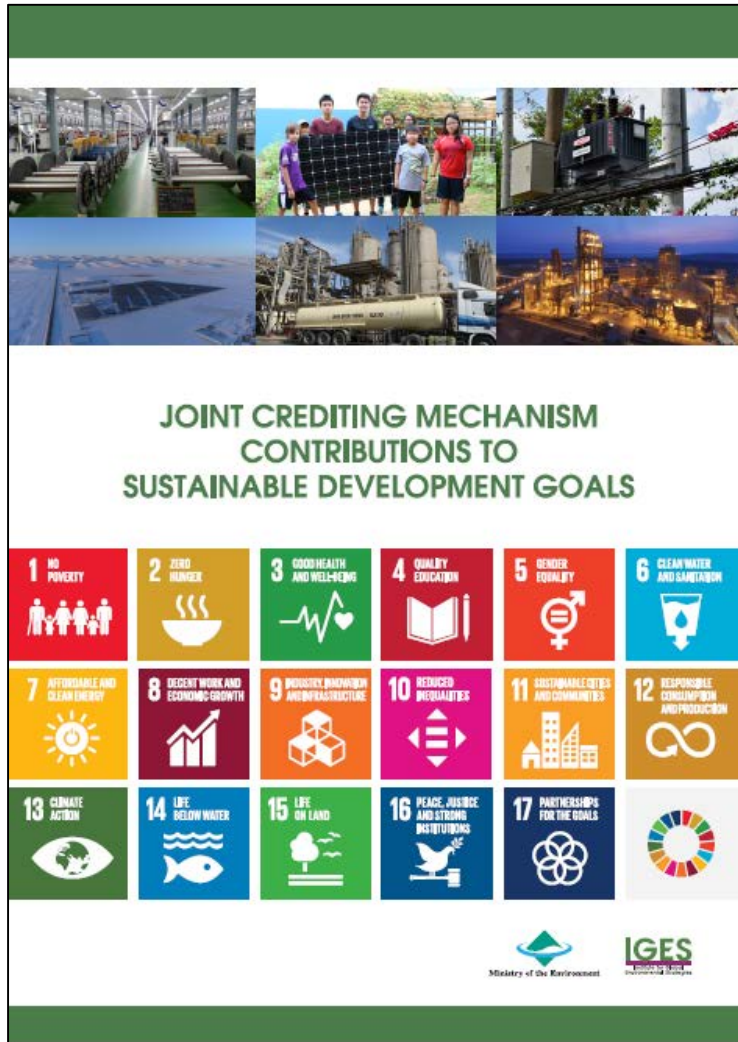
“JCM contributions to SDGs” report

The first report analyzed interlinkages of JCM and SDGs³

- Analyzed the JCM’s contributions to 17 Goals and 169 Targets
- Developed JCM-specific indicators (quantitative and qualitative)
- Evaluated 57 registered JCM projects (15 RE projects, 42 EE projects) and JCM scheme itself
- “Business reporting: An analysis of Goals and Targets” report UN Global compact network and Global Reporting Initiative
https://www.globalreporting.org/resource/library/An_Analysis_of_the_Goals_and_Targets_jp.pdf



<https://www.iges.or.jp/en/pub/joint-crediting-mechanism-jcm-contributions-sustainable-development-goals-sdgs/en>



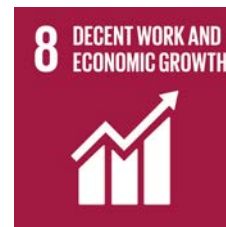
1. Contributions to multiple goals and targets

- JCM contributes to not only environmental and economic Goals of the SDGs but also social dimension of the SDGs

Environment



Economic



Social



(Source: "JCM contributions to SDGs" report)

Case study: Energy-Efficient Water Pump, Vietnam

Project overview:

- High efficiency water pump in the treatment plant in Da-Nang city.
- Energy saving achieved by the replacement of those pumps contributes to reducing CO2 emissions

Expected GHG emission reduction: 698 t-CO₂/year



- Providing technical training for local project participant for maintenance, operation, and monitoring in order to operate the project properly **(SDG 4)**



- The installed high efficiency water pump contributed to increasing the amount of supplying water by 5 thousand tons per a day. The local company supplies 70% of the consuming water in Da-Nang city. This project achieved to supply stable and higher quality water to the city **(SDG 6)**



- Energy efficiency is increased by 20% which leads to CO₂ emission reduction as well as electricity cost in the water treatment facility **(SDG 7 and 13)**



- By introducing high efficient water pump leads sustainable water supply to the Da-Nang city residence and this project is supporting sustainable infrastructure development in Vietnam with financial and technical support **(SDG 8, 9, and 12)**



- Participating in international cooperative mechanisms with different stakeholders to diffuse low carbon technologies and improving the partnership between both countries and private sectors **(SDG 17)**

2. Implementing projects in different sectors

Common SDGs that JCM contributes:



4.4 Technical training



7.a International cooperation to increase clean energy



9.4 Sustainable industry



12.4 Responsible consumption and management of natural resource



13.3 Improve employees' awareness of climate change



17.3 Mobilizing private capital to support SDGs



JCM contributions based on project types:

Introducing Waste Paper Processing System into a Packaging Paper Factory



7.3 Reducing energy consumption



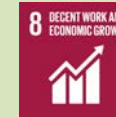
12.2 Recycling resources

12.5 Recycling waste

Introducing high efficiency air-jet loom in a textile factory



7.3 Reducing energy consumption



8.2 Industry innovation in developing countries

(Source: "JCM contributions to SDGs" report)

Case study: Solar Power Plant in farm, Mongolia

Project overview:

- 12.7MW solar power plant installed in Ulaanbaatar suburb farm
- Mitigation of air pollution and stabilization of power supply
- Supporting the Farm by the revenue of sold electricity

Expected GHGs emission reduction : 11,474 t-CO₂/year



- Delivering higher quality and fresh vegetables to the residence of Ulaanbaatar. 27 tons of vegetables was produced last year, and the revenue from the solar PV project supported the company to increase investment in introducing Japanese agricultural technologies **(SDG 2)**



- Generating electricity by solar PV leads to reduce fossil fuel consumption, contribute to air pollution reduction **(SDG 3)**



- Japanese company and solar PV manufacturer provide capacity training for local engineers and farmers **(SDG 4)**



- Increasing the share of RE electricity and reducing CO₂ emission **(SDGs 7, and 13)**

- Building resilient and sustainable infrastructure in Mongolian energy sector; reducing environmental impact per capita in the city; and strengthening the country's technological upgrade in the largest emitting sector would help to move towards more sustainable production **(SDGs 9 and 12)**



- The financial and technical support has successfully involved multi-stakeholders in the project development and operation **(SDG 17)**



3. Expanding JCM contributions to the SDGs

Common SDGs that JCM contributes:



4.4 Technical training



7.a International cooperation to increase clean energy



9.4 Sustainable industry



12.4 Responsible consumption and management of natural resource



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17.3 Mobilizing private capital to support SDGs



Potential JCM projects:

1. Renewable energy in irrigation system



To contribute sustainable agriculture and increase efficient water management

2. Waste water treatment



To enhance public health and sanitation; and support sustainable cities

3. Solid and plastic waste treatment



To enhance recycling waste and contribute to reduction of ocean plastics

(Source: "JCM contributions to SDGs" report)

Impacts of the COVID-19

Health:

- As of the 15th of Aug 2020, there were **20 million confirmed cases** and **over 700 thousand deaths** due to the COVID-19, affecting **more than 200 countries, areas and territories** (WHO⁴)

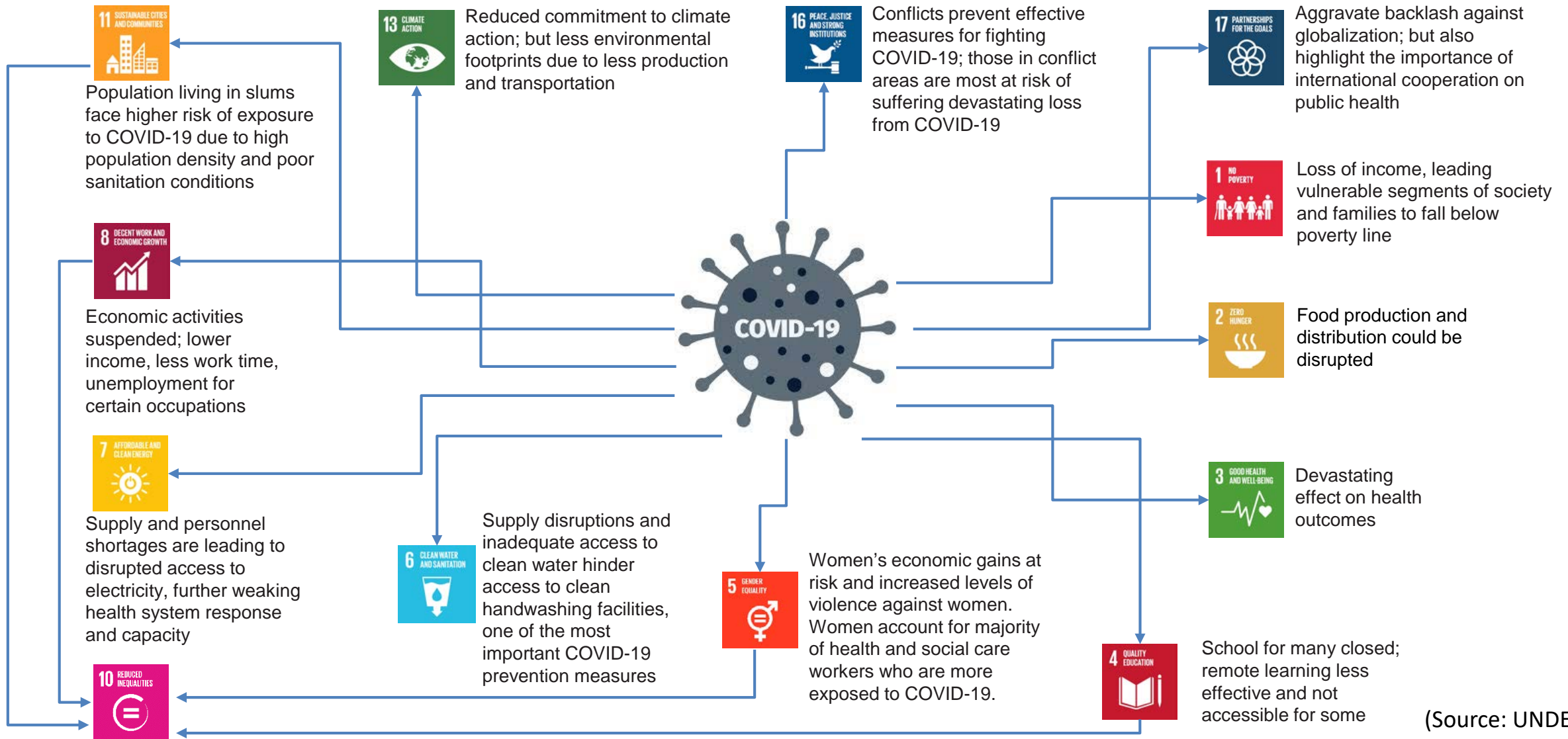
Economic:

- WB⁵ forecasts the global economy will **shrink by 5.2% in 2020**, around **155 million full-time jobs** were lost in the 1st quarter of 2020, due to the second wave of the pandemic, estimated **340 million jobs** may have been lost during the 2nd quarter of 2020 (ILO⁶)
- Emerging market and developing economies: pressure **on weak health care systems, loss of trade and tourism**, and **tight financial conditions** and mounting **international debt**.
- Estimated at **1.3 billion people** (two-thirds of the workforce) **in Asia and the Pacific** - expected to be the hardest hit by the economic shock of COVID-19. Loss in working hours in the 2nd quarter of 2020, **around 125 million full-time workers** in the region (UNDP Asia Pacific⁷)

Lifestyle:

- Lockdowns include **partial or complete lockdowns**, daytime curfews, **closure of educational institutions** and non-essential businesses, and **bans on public gatherings**.
- About **4.2 billion people** (54% of the global population), representing **almost 60% of global GDP**, were subject to complete or partial lockdowns as of the 28th of Apr 2020 (IEA⁸)

COVID-19 impacts on the SDGs



(Source: UNDESA¹³)

Responses to the COVID-19: Green and Sustainable recovery plan

UNFCCC June Momentum⁹: Ms. Patricia Espinosa, Executive Secretary

- Recovery from COVID-19 should **address climate change**
- Establish **more inclusive and sustainable path** for all; and make **societies and people more resilient**

UN Framework¹⁰:

- Health first: **Protecting health services and systems**, **Protecting people**: Social protection and basic services, **Economic responses and recovery**: protecting jobs, small and medium sized enterprises, Macroeconomic response **and multilateral collaboration**, Social cohesion and **community resilience**

EU Green Deal¹¹ (Dec 2019):

- A roadmap for making the EU's economy **sustainable** by turning **climate and environmental challenges into opportunities** across **all policy areas** and making the transition just and **inclusive for all**.
- Sectors: specifically **transport, energy, agriculture, buildings, and industries** (steel, cement, information, textiles, chemicals)
- To boost **the efficient use of resources** by moving to a **clean, circular economy**; and To restore **biodiversity** and cut **pollution**

MOEJ Responses and Measures¹²:

- Recovering **economic activities** by supporting to install energy efficient ventilating equipment to reduce risks; and **securing employment** in national parks and tourist areas
- Building resilient economy **by improving supply chain** and production sites to **transit decarbonisation**

JCM potentials during the COVID-19

Recovery plan:

- Inclusive, Sustainable, Resilient society
- Protecting human and health services
- Multilateral collaboration, Solidarity
- Resource efficiency, clean energy, circular economy, biodiversity (Green Deal)
- De-carbonization
- Securing employment



JCM projects:



Summary

- **Climate change and SDGs: JCM application**
 - Supporting both international frameworks' ambitious targets
- **Key findings from IGES report “JCM contributions to SDGs”**
 - Contributions to multiple goals and targets through JCM projects
 - Implementing JCM projects in different sectors would increase chances to achieve SDGs
 - Future potentials to expand JCM's contributions to the SDGs
- **Impacts and responses of the COVID-19: JCM potential**
 - Impacts: Health, Economy and Social life
 - Responses and recovery plans should be Green, Sustainable, Resilient: Agenda 2030
 - By implementing JCM projects in essential sectors which the country needs can support the achievement of SDGs and recovery from COVID-19

Our next work on JCM-SDGs

“JCM-SDGs linkage guidance” (end-Aug)

- A tool for identifying the JCM project contributions to the SDGs
- Included analysis of 17 Goals and 169 Targets (additional goals and targets)
- Linkages between the JCM project types and SDGs
- The JCM partner countries can use as a reference for analysing their projects

IGES website: <https://www.iges.or.jp/en>

Reference list

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Thank you for your attention