

Linkages between the JCM and SDGs

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Outline

- **Paris Agreement and SDGs: JCM potentials**
- **3 Key findings from IGES reports on “JCM contributions to SDGs ”**
- **Impacts and responses of the COVID-19: JCM potentials**
- **Summary**

Paris agreement and SDGs: JCM potentials

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**

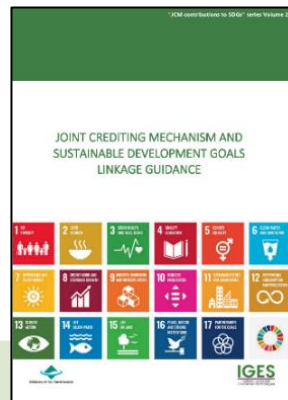
**To support the SDGs
achievement**

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

JCM contributions to SDGs

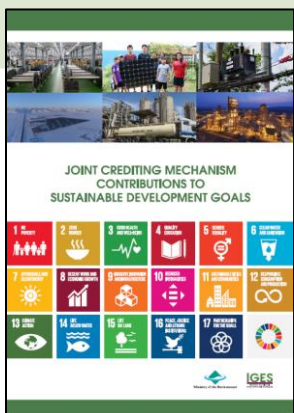
First Volume (Mar. 2020)

- Developed qualitative and quantitative indicators for JCM
- Analyzed 57 registered JCM projects



- Publish Best practices

- Update JCM-specific indicators regularly



Second Volume (Aug. 2020)

- A tool for identifying the JCM project contributions to the SDGs
- Updated indicators and covered newly registered projects
- JCM contributed 12 SDG Goals (Goal 2, 3, 4, 6, 7, 8, 9, 11, 12, 13, 14, 17)

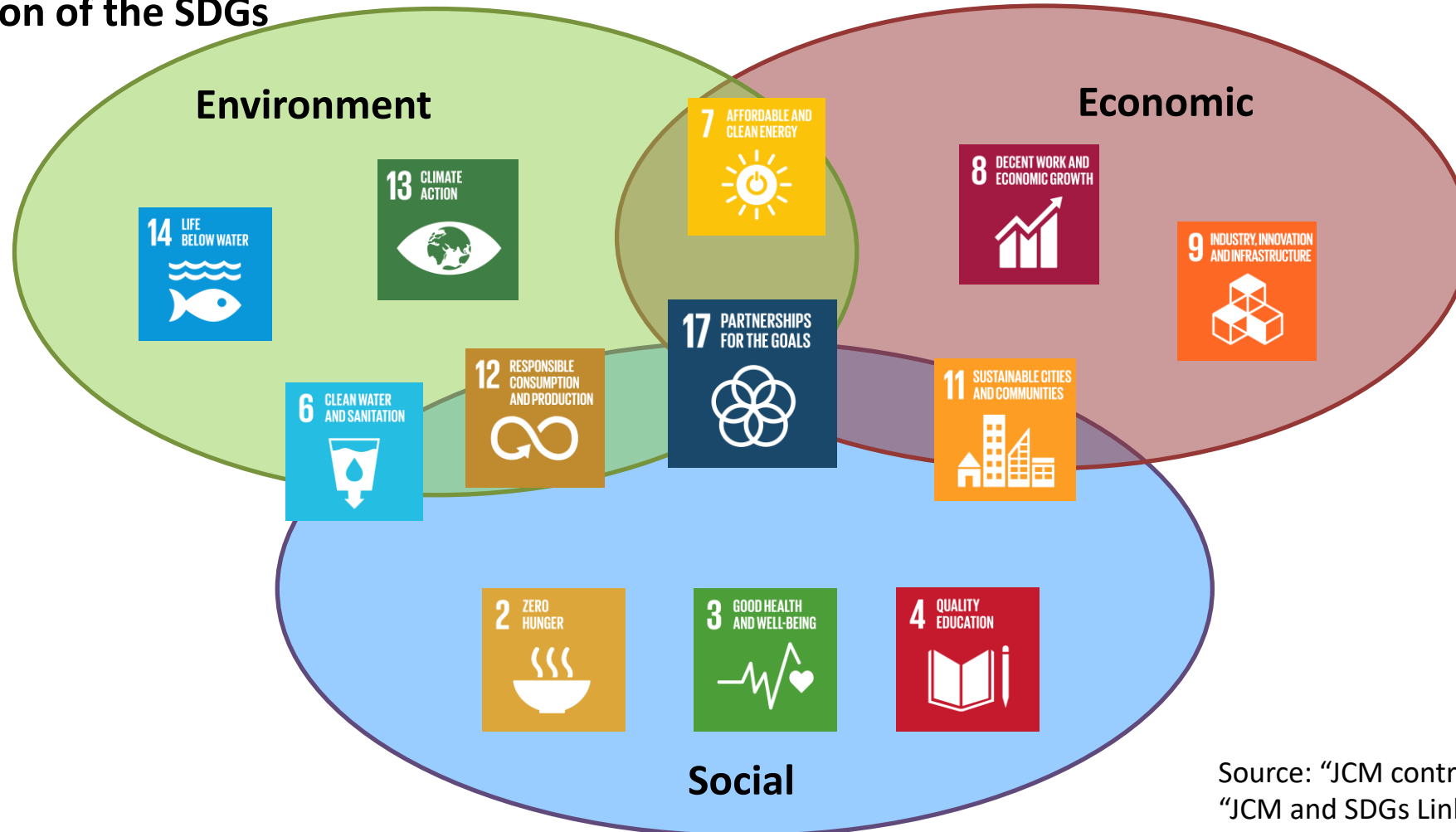


1st volume: JCM contributions to SDGs: <https://www.iges.or.jp/en/pub/joint-crediting-mechanism-jcm-contributions-sustainable-development-goals-sdgs/en>

2nd volume: JCM and SDGs Linkage Guidance: <https://www.iges.or.jp/en/pub/jcm-and-sdgs-linkage-guidance/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



Source: “JCM contributions to SDGs” report, “JCM and SDGs Linkage Guidance”)

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



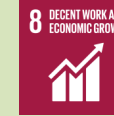
12.2 Recycling resources

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, "JCM and SDGs Linkage Guidance"

3. Expanding JCM contributions to more 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



13.3 Improve employees' awareness of climate change



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. Wastewater treatment



To enhance public health and sanitation; and support sustainable cities

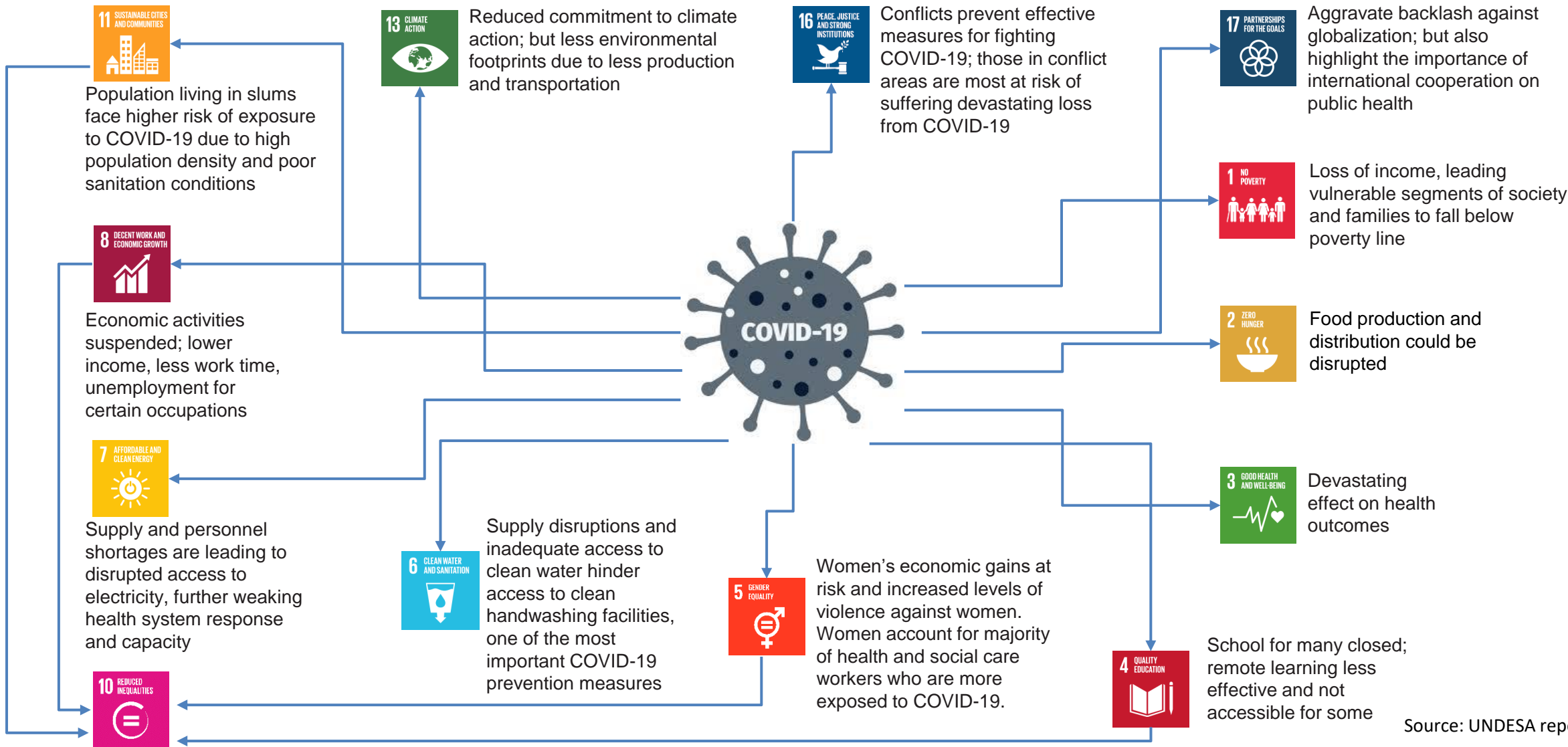
3. Solid and plastic waste treatment



To enhance recycling waste and contribute to reduction of ocean plastics

Source: "JCM contributions to SDGs" report, "JCM and SDGs Linkage Guidance"

COVID-19 impacts on the SDGs



Source: UNDESA report⁴

Responses to the COVID-19: Sustainable recovery plan

UNFCCC⁵: 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 Framework⁶:

- 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 Deal⁷:

- 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 Measures⁸:

- 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
- De-carbonization
- Securing employment



JCM projects:



Summary

- **Paris Agreement and SDGs: JCM potentials**

Supporting the ambitious targets of both international frameworks

- **3 Key findings from IGES reports on “JCM contributions to SDGs ”**

1. Contributions to multiple SDG Goals and Targets through JCM projects
2. Implementing JCM projects in different sectors
3. More potentials in JCM projects to expand contributions to other SDGs

- **Impacts and responses of the COVID-19: JCM potentials**

By implementing JCM projects in essential sectors which the country needs can support the recovery from COVID-19 and achievement of SDGs

Reference list

1. IPCC 1.5 Summary for policymakers, https://www.ipcc.ch/site/assets/uploads/sites/2/2019/05/SR15_SPM_version_report_LR.pdf
2. Climate change and SDGs synergies, https://sustainabledevelopment.un.org/content/documents/22398Summary_document_Copenhagen_FINAL_for_website.pdf
4. UNDESA Responding to the socio-economic impacts of COVID-19 report, https://www.un.org/sites/un2.un.org/files/sg_report_socio-economic_impact_of_covid19.pdf
5. UNFCCC June Momentum, <https://unfccc.int/event/where-do-we-stand-with-ndcs-enhancing-action-on-climate-change-in-2020>
6. A UN framework for the immediate socio-economic response to COVID-19, <https://unsdg.un.org/sites/default/files/2020-04/UN-framework-for-the-immediate-socio-economic-response-to-COVID-19.pdf>
7. EU Green Deal, <https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1596443911913&uri=CELEX:52019DC0640#document2>
8. MOEJ COVID-19 Responses and Measures, <https://www.env.go.jp/guide/budget/r02/r0204-hos-gaiyo/full.pdf>

Thank you for your attention

Annex

Myanmar: Waste-to-Energy Project

Project background information:

- Landfill capacity at the current treatment site is decreasing
- Negative impacts on environment (human health) due to poor waste management

Project overview:

- Introduction of advanced solid waste treatment
- Expected GHG emissions reduction: 4,067 t-CO₂/year (average)



		<p>Generating electricity from solid waste leads to reduce fossil fuel consumption and contributes to air pollution reduction. Treating solid waste can contribute to soil contamination reduction in the surrounding area. Therefore, the project reduces negative environmental impacts by improving waste management.</p>
		<p>Providing technical capacity training for local engineers and employees to operate the treatment plant.</p>
		<p>Engaging in advanced waste management and reducing hazards from solid waste can prevent ground water pollution. The project can reduce the volume of solid waste by around 90%.</p>
		<p>The project reduces GHG emissions by replacing electricity generated by fossil fuel and avoiding methane release from the solid waste. Over 60 % of generated electricity is used by the treatment plant itself, and the rest is sold to the grid system.</p>
		<p>Introducing highly efficient technologies in solid waste treatment leads to enhance sustainable public infrastructure development. The plant treats about 60 tons of waste per day. It has a separate recycling process which collects recyclable materials such as bottles and plastics. These activities contribute to reducing the landfill waste. Strengthening this kind of technological upgrade would help Myanmar to move towards more sustainable production.</p>
		<p>Contributing to marine pollution reduction through appropriate solid waste management</p>
		<p>Participating in JCM and collaborating with different stakeholders ensure diffusion of low-carbon and decarbonisation technologies and improve the partnership between the government and private sector in both countries.</p>

Source: JFE Engineering Corporation

Mongolia: Solar Power Plant in farm

Project background information:

- Need to increase production of fresh vegetables and practice sustainable food production
- Severe air pollution in winter season due to use of coal

Project overview:

- 12.7MW solar power plant installed at farm in suburbs of Ulaanbaatar
- Expected GHGs emission reduction : 11,223 t-CO₂/year (average)



	<p>In 2019, 27 tons of high quality, fresh vegetables were produced and delivered to the residents of Ulaanbaatar. The revenue from the solar PV project provided support to the company to increase investment for installing Japanese agricultural technologies.</p>
	<p>Generating electricity by solar PV leads to less fossil fuel consumption which contributes to air pollution reduction and improves environmental negative impacts</p>
	<p>The Japanese company provides training for the local farmers to improve their agricultural skills for working on the solar farm®. In addition, engineers and workers in solar PV power generation carry out work under guidance provided online from the manufacturer.</p>
	<p>Since operations started in 2017, total electricity production reached about 40,000 MWh and the amount of electricity sold is about 38,000 MWh (as of 31 Dec 2019). The electricity generated from the solar PV is sold to the national grid which contributes to the increased share of RE electricity in the country, thereby reducing CO₂ emissions.</p>
	<p>Building sustainable infrastructure in Mongolian energy sector and strengthening the country's technological upgrade in the largest emitting sector would help the country to move towards more sustainable production.</p>
	<p>Participating in JCM and collaborating with different stakeholders ensure diffusion of low-carbon and decarbonisation technologies and improve the partnership between the government and private sector in both countries.</p>

Source: Farmdo Co., Ltd., Everyday Farm LLC

JCM Global Partnership

- JCM Global Partnership was established as an online platform (Aug 2020)
- The Partnership includes: International organization (ADB, WB, UNIDO), Local government (17 Partner countries), Private companies and NGOs
- The three key pillars: JCM & Carbon Neutral Project, JCM & Art 6 of PA, JCM & SDGs



JCM Global Partnership website:

<https://www.carbon-markets.go.jp/eng/jcmgp/sdgs.html>