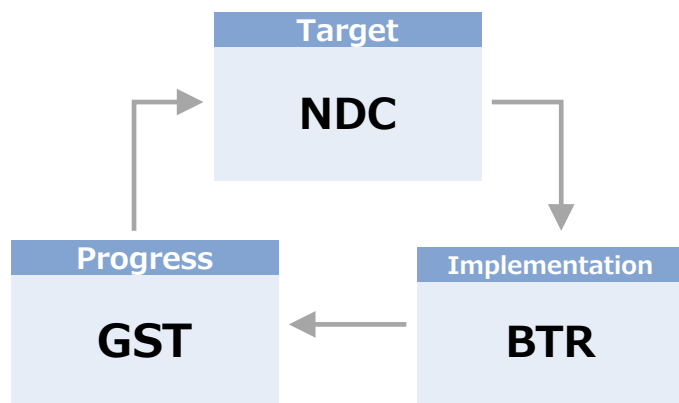


Japan's Initiatives to Address Climate Change 2025 - Synergies, Solutions, Transparency -



- Pursuing the Paris Agreement's 1.5°C goal under **multilateralism**. Based on **GST outcomes**, Parties **submit NDCs** and **report** implementation progress **in BTRs** to keep the Paris Agreement **cycles running**.
- Japan achieved a 27.1% reduction in fiscal 2023 compared to fiscal 2013 levels. Moving forward, steadily implement **GHG reduction measures** based on NDC submitted in February.
- Contributing to **decarbonization in Asia and globally**, by utilizing 1) **synergies** with nature, 2) **solutions** from market mechanisms and new technologies, and 3) enhanced **transparency** through inventories.

Cycle of Paris Agreement



Japan's Contributions to Global Decarbonization

- 1 Synergies** **Living in Harmony with Nature**
Blue Carbon | Adaptation Business | SATOYAMA | GREENxEXPO 2027
- 2 Solutions** **Market Mechanisms and New Technologies**
JCM | Perovskite solar cell | Artificial Photosynthesis | MIDORI∞INFINITY
- 3 Transparency** **Improvement of Inventories**
GOSAT | IPCC Session Host | Growing toward net-zero in ASEAN

Glossary

GST : Global Stocktake, to confirm progress made towards the Paris Agreement targets
NDC : Nationally Determined Contributions, incl. GHG reduction targets
BTR : Biennial Transparency Report
JCM : Joint Crediting Mechanism

1. Synergies : Living in harmony with Nature



- Promoting decarbonization through **Blue Carbon**
- Development of **Adaptation Business** Contributing to Climate Change Action and Biodiversity Conservation
- Promoting **SATOYAMA Initiative** and certification of **"Kyosei site," Nationally Certified Sustainably Managed Natural Sites**, functioning as CO2 sinks
- Promoting corporate disclosure of information on climate change, nature and circularity
- Hosting the international horticultural exhibition **"GREEN×EXPO 2027"**

Blue Carbon

- Projects implementing carbon fixing in Japan and overseas, in which plants that have absorbed CO2 through photosynthesis and other processes are deposited on the seabed after dying or as a result of the food chain.
[Example] Cooperation in mangrove restoration in Indonesia.

Example of Adaptation Business

- Coffee farming to avoid high temperature in agroforestry systems in Laos, taking into account the "2050 coffee problem", the negative impacts of climate change on coffee industry.
- Sustainable palm sugar production at the community level in Indonesia, balancing ecosystem conservation with climate change mitigation and adaptation measures.

GREEN×EXPO 2027

- To be held in Yokohama in 2027, A1 class international Horticultural Expo that will inspire people to solve global issues including climate change and biodiversity loss.



SATOYAMA Initiative

- Community Development and Knowledge Management for the Satoyama Initiative Programme (COMDEKS) has been implemented in 27 countries to support on-the-ground practices of local communities in conservation and sustainable use of natural resources



"Kyosei site" Nationally Certified Sustainably Managed Natural Sites

- As of October 2025, 448 areas have been certified as "Kyosei sites" where biodiversity conservation is being promoted through private sector initiatives and other efforts. Initiatives including sustainable forest management contribute to carbon sink measures together with the 30by30 target.

Corporate Disclosure of Information

- Global record of 198 companies (as of September 2025) in Japan have declared TNFD disclosures.
- Guidance has been developed to promote integrated disclosure aligned with corporate integrated approaches and frameworks across various environmental areas, including climate change and natural capital
- Supports the development and publication of the GCP through WBCSD.

2. Solutions : Market Mechanisms and New Technologies

- **Market Mechanisms:** Achieving global emission reductions and removals of **approximately 200 million tons by fiscal 2040** through the **JCM**
- **New Technologies:** Leading decarbonization by thorough energy conservation, promoting electrification and decarbonizing electricity, and next-generation solar cells

Promotion of JCM

- Collaboration with JCM partner countries and credit-acquiring countries to expand effective emission reduction and absorption activities that balance environmental integrity and flexibility through cooperative approaches under Article 6(2) of the Paris Agreement such as the JCM.
- JCM partner countries have expanded to 31, including India and ASEAN countries. India became the 31st country to sign the agreement in August 2025.
- Intercity collaboration on realizing a decarbonized society boosts JCM project development.
- Projects in collaboration with international organizations (ADB, UNIDO, EBRD).



Commencement of the JCM with India



Biogas Power Generation and Fuel Conversion Project (Philippines)



Development of New Technologies

- Regarding development, demonstration and implementation of new technologies contributing to decarbonization, the following innovative initiatives are strongly promoted involving participation from various stakeholders, including start-up companies:
 - Thorough implementation of energy conservation
 - Promotion of electrification and decarbonization of electricity
 - Next-gen solar cells (e.g. perovskite solar cells)
 - Next-gen semiconductors
 - Innovative catalysts
 - Tidal power generation
 - Artificial photosynthesis
 - Hydrogen



Installation of Perovskite solar cells on bus shelters (Sekisui Chemical Co., Ltd.)

The Agriculture, Forestry and Fisheries Sector

- Based on MIDORI∞INFINITY, the Ministry of Agriculture, Forestry and Fisheries (MAFF) promotes overseas deployment of Japan's GHG emission reduction technologies through utilizing the JCM. MIDORI∞INFINITY aims to facilitate decarbonization investment in the agri-food sector and contribute to food security.

Glossary

ADB: Asian Development Bank **UNIDO:** United Nations Industrial Development Organization **EBRD:** European Bank for Reconstruction and Development **MIDORI∞INFINITY:** The policy package compiling GHG emission reduction technologies for overseas deployment and support programs that Japanese private companies can utilize. Formulated by MAFF in May 2025.

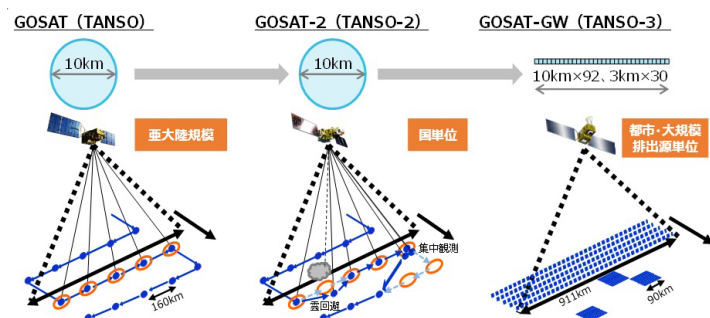
3. Transparency : Enhancement of Inventories

- **Improving accuracy** of national GHG inventories by utilizing **GOSAT-GW** satellite technology
- Contributing to inventories, **IPCC Session in Japan in 2027**
- Supporting **decarbonization policy developments in ASEAN** through BTRs and corporate MRVs
- **ASEAN collaborative report on economic growth by decarbonization**, as a GST2 contributor
- **World's first GHG inventory** with absorptions from blue carbon and CO₂-absorbing concrete

Utilization of GOSAT-GW

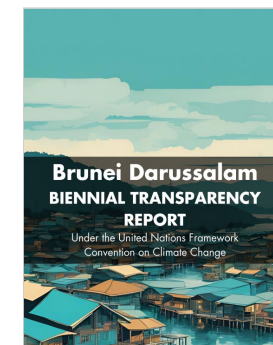
- Launched in June 2025. Through area-wide observation and improved resolution, emission and absorption quantities at the level of a city and large-scale sources can be tracked.

[Examples of demonstration experiment]
MRV on paddy fields for JCM, forest fire tracking, prevention of methane leakage from LNG (liquefied natural gas) supply chains.



ASEAN/Asia Cooperation

- Support enhancement of corporate transparency through PaSTI on revised SPACE and utilizing AIM for NDC formulation.
- Launch of BTR preparation support "SITA".
e.g. contribution to Brunei's BTR preparation
- Prepare report of achieving both decarbonization and economic growth based on the initiatives in ASEAN countries, aiming to contribute to GST2 by 2028.



Brunei's BTR

Contribution including hosting a Session of IPCC

- Longstanding contribution to the inventory area including the Technical Support Unit (TSU) of the Task Force on Inventories (TFI).

Reporting new sector inventory

- Inclusion of blue carbon (seagrass meadows and seaweed beds) and CO₂-absorbing concrete to GHG inventory as CO₂ absorption and sequestration.