Pathways to Japan's Green Transformation (GX)



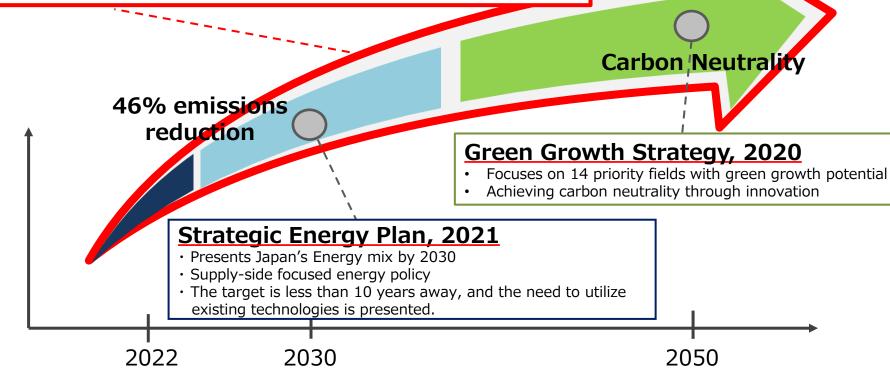
Ministry of Economy, Trade and Industry, JAPAN

# Japan's Green Transformation aims emission reduction & growth

- GoJ announced the Basic Policy for the Realization of GX in February 2023. Relevant bills passed the Diet session in May.
- Green Transformation (GX) delivers both emission reduction and economic growth. Successful GX initiatives enhance competitiveness of companies and

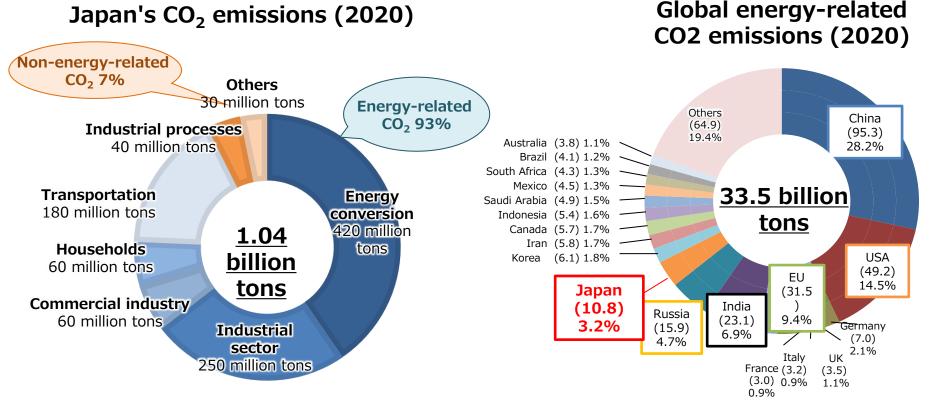
### Basic Policy for the Realization of GX, 2023

- Create new demand and markets in the fields of stable energy supply and decarbonization, leading to the improved competitiveness of its industries and economic growth.
- ¥150 trillion+ of public / private investments over next decade
- Pro Growth Carbon Pricing Concept.



# Non electricity matters

- In Japan, CO<sub>2</sub> emissions from power sector accounts for 40%. Emission reduction from Industrial and other sectors are crucial towards carbon neutral.
- Japan will contribute to global emission reduction by providing solution for ourselves and beyond.



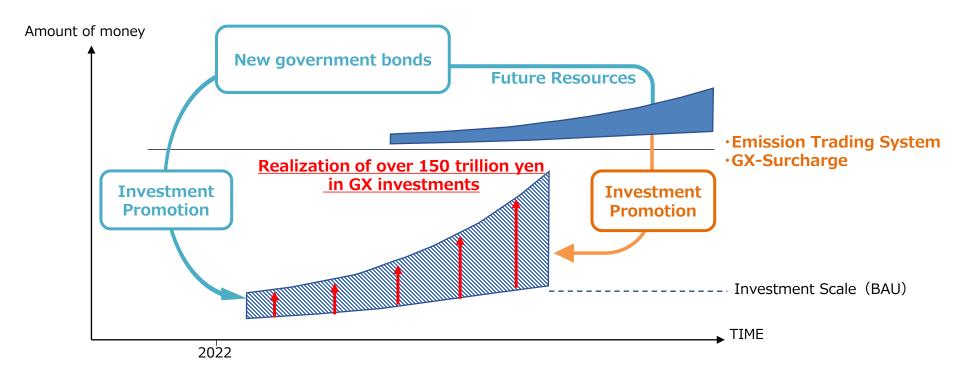
(Source)
Created from Greenhouse Gas Inventory Office
"Japanese greenhouse gas emission data"

(Source) IEA, CO2 Emissions from Fuel Combustion Highlights 2020

# **Pro-Growth Carbon Pricing Concept**

To promote the GX investment as described above, a "Pro-Growth Carbon Pricing Concept" will be embodied and implemented as soon as possible.

- ① **Government support for bold upfront investment** by issuing **new government bonds** (20 trillion yen over the next 10 years)
- 2 Introduction of carbon pricing to give incentives for GX investment
  - (1) Full-scale operation of **emissions trading system** in high emission industries [**from FY2026**]. + Allowance auctioning to be phased in gradually to **power generation companies** [**from FY2033**]
  - (2) Introduction of a **GX-Surcharge** on fossil fuel supply [from FY2028]
- 3 Strengthen financial support through public-private partnership



### Work on the hard to abate sector

• To realize carbon neutrality, efforts as listed below  $(1\sim4)$  are needed in the power and industry sectors.

- 1 Increasing energy efficiency
- 2 Decarbonization of electricity
- ③ Decarbonoization of heat (fuel) Hydrogen, Ammonia, SAF, Synthetic Fuels, etc. are still under development
- **4** Decarbonization of manufacturing processes and materials

**Hydrogen reduction ironmaking,** naphtha are still under development.

**Electrifying heat processes** are candidates for technology development.

Commercialized Technology Available

HARD TO ABATE

Technology still being developed toward commercialization

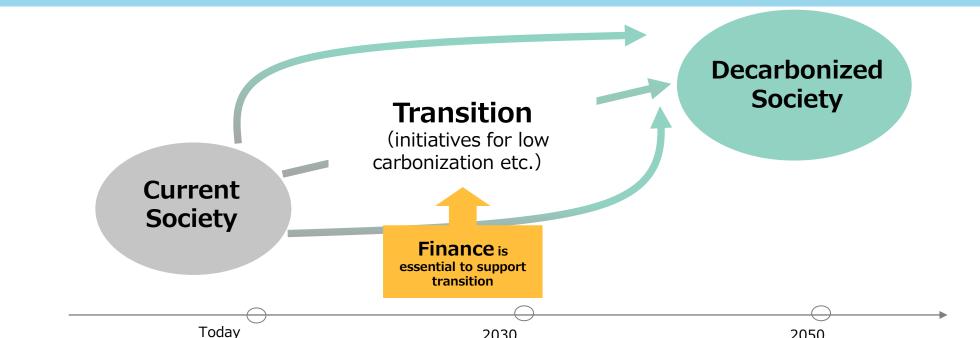
# **Transition Finance**



# The Importance of Transition Finance

**Transition finance refers to financial services supporting the whole-of-economy transition**, in the context of the SDGs, towards lower and net-zero emissions and climate resilience, in a way aligned with the goals of the Paris Agreement.

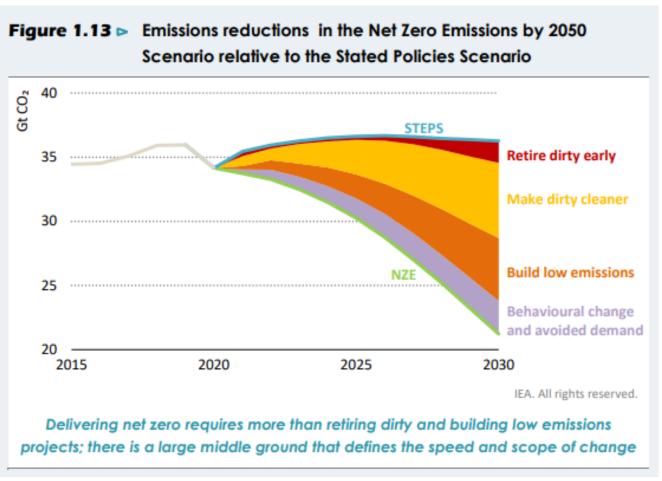
- Companies in many hard-to-abate sectors cannot immediately jump into the decarbonized society due to the outside factors including limitation of innovative technologies and geographical background of energy mix.
- To meet the Paris goals, it is salient to green all sectors and industries. Sectors that are currently GHG intensive but in its process of transitioning to net-zero emissions also require financing in their journey towards net-zero.
- Active engagement with all sectors and industries through transition finance is key in realizing this whole-of-economy transition.



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# Transitional technologies delivers significant reductions

- In the World Energy Outlook, 2021 IEA reported that the combination of *i) retiring from dirty early ii)*make dirty cleaner iii) build low emissions iv) behavioral change and avoided demand is essential for filling the gap of STEPS and Net Zero Emission trajectory.
- It is stated that the middle ground of actions that "make dirty cleaner" is crucial in determining the speed and scope of energy transitions, and delivers the largest share of emissions reductions.



# International Initiatives on Transition Finance

 The importance of transition plan are being recognized as a crucial tool to achieve the Paris Agreement and related initiatives are seen worldwide.

2019.06~12

#### AXAIM Guidelines for Transition Bonds

 follows the Green Bond Principles and adds requirements for issuers to the criteria.

Composition of ICMA WG Mark Carney's speech at UN Climate Action Summit 2019

2020.12

ICMA Climate Transition Finance Handbook

2021.05

Japan Basic Guidelines on Climate Transition Finance Japan Asia Energy Transition Initiative (AETI)

2021.10

#### TCFD Guidance on Metrics, Targets, and Transition Plans

Recommended the disclosure of transition plans

2022.06

#### CBI Criteria for highemission industries

- published a new draft for iron/steel sector as criteria for CBI certification
- Other sectors are also in progress

2022.06

#### GFANZ The Managed Phaseout of Highemitting Assets and others

 Published a guidance on specific areas such as managed phaseout and sectoral pathways

2022.02

#### G20 Finance Ministers and Central Bank Governors Meeting

 Sustainable finance roadmap has been approved last year, with reference to transition finance initiatives in FY2022 2022.09

# **CBI Transition Finance for Transforming Companies**

 addresses the challenges of assessing companies' transition and presents the five hallmarks of credible transitioning company

2022.10

# 2022 G20 Sustainable Finance Report

Summarizes the work on sustainable finance including the development of a framework for transition finance

2022.11

#### GFANZ Financial Institution Net-zero Transition Plans

 Published a recommendation and guidance on financial institution's transition plan

2023.04-05

**G7** (Japan Chair)

2022.09

#### Asia Transition Finance Guidelines

 Set out an approach to assess transition finance-suitability considering regional characteristics

2022.10

# OECD Guidance on Transition Finance

 Compiled a comprehensive overview of existing transition finance approaches and sets out elements for credible transition plans

2022.10

#### NZBA Transition Finance Guidance

 Stated the importance of banks' role in supporting companies' transition

2022.11

#### UK Transition Plan Taskforce

Published a consultation on their disclosure framework

## 2023 G7 Hiroshima Summit

- G7 Hiroshima Summit was held from 19<sup>th</sup> to 22<sup>nd</sup> May 2023.
- The importance of transition finance to advance the decarbonization of the whole economy was agreed among the leaders.

(also agreed among G7 Ministers' Meeting on Climate, Energy and Environment & Finance Ministers and Central Bank Governors' Meeting)



## Leaders' Communiqué

:

We remain committed to supporting the implementation and monitoring of G20 Sustainable Finance Roadmap.

We highlight the need for corporates to implement their net-zero transition in line with the temperature goal of the Paris Agreement based on credible corporate climate transition plans.

We also highlight that transition finance, in line with keeping a limit of 1.5°C temperature rise within reach, avoiding carbon lock-ins and based on effective emissions reduction, has a significant role in advancing the decarbonization of the economy as a whole.

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# Japan's 4 step policy tools on Climate Transition Finance

### **G7 Leaders Summit (May 2023, Hiroshima)**

- Transition finance, in line with keeping a limit of 1.5°C temperature rise within reach, avoiding carbon lock-ins and based on effective emissions reduction, has a significant role in advancing the decarbonization of the economy as a whole.
- Although green projects have attracted investment, transition to net zero requires more.
- To encourage private finance flow for transition, Japanese government take 4-step-policy.
- Companies are expected to show their credible transition strategy. They can account for their plan by referring to the technologies and pathway of the roadmap.

#### 1. Basic Guidelines

✓ FSA, MOE and METI formulated the Guidelines to establish transition finance in line with the ICMA transition handbook.



### 2. Sector Roadmaps

- ✓ Roadmaps with technologies for transition is formulated for 8 sectors: iron & steel, chemical, electricity, gas, oil, cement and paper & pulp, and automobiles.
- ✓ The roadmaps can be referred <u>by</u>
  <a href="mailto:companies">companies</a> to formulate their strategies and pathways, and <u>by financial entities</u> to evaluate those of clients

### 3. Model Projects

- ✓ 21 model projects from shipping, steel, aviation, chemical, energy and heavy industry sectors.
- ✓ The market of transition finance has reached 1 trillion yen cumulatively.

### 4. Follow-up Guidance

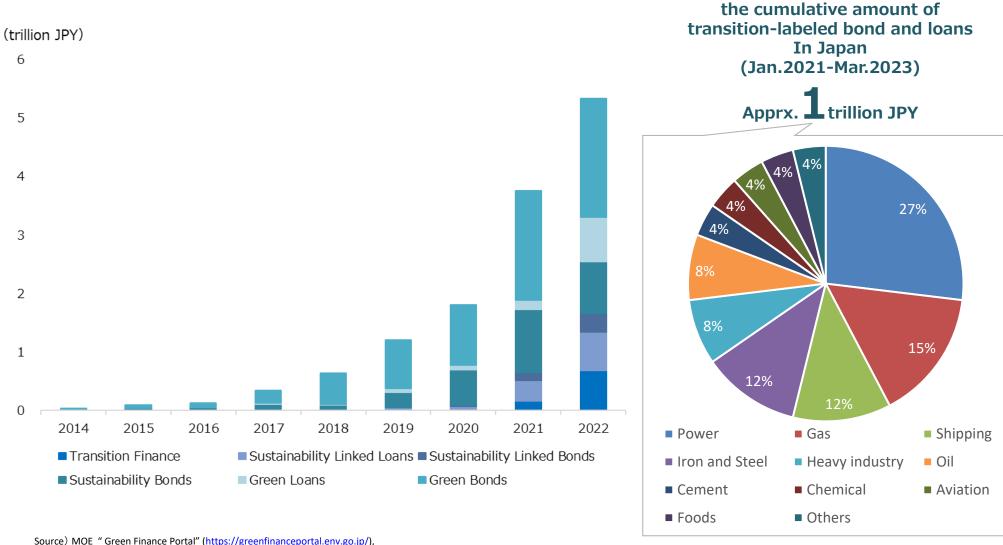
✓ Guidance for financiers (especially bond issuers) in following up after the issuance of transition finance was released in June 2023



Salar Suneer Smal

# One trillion JPY transition-labeled bonds and loans issued in Japan

The cumulative amount of transition-labeled bonds and loans has grown and surpassed 1 trillion JPY.



# Thank you

