



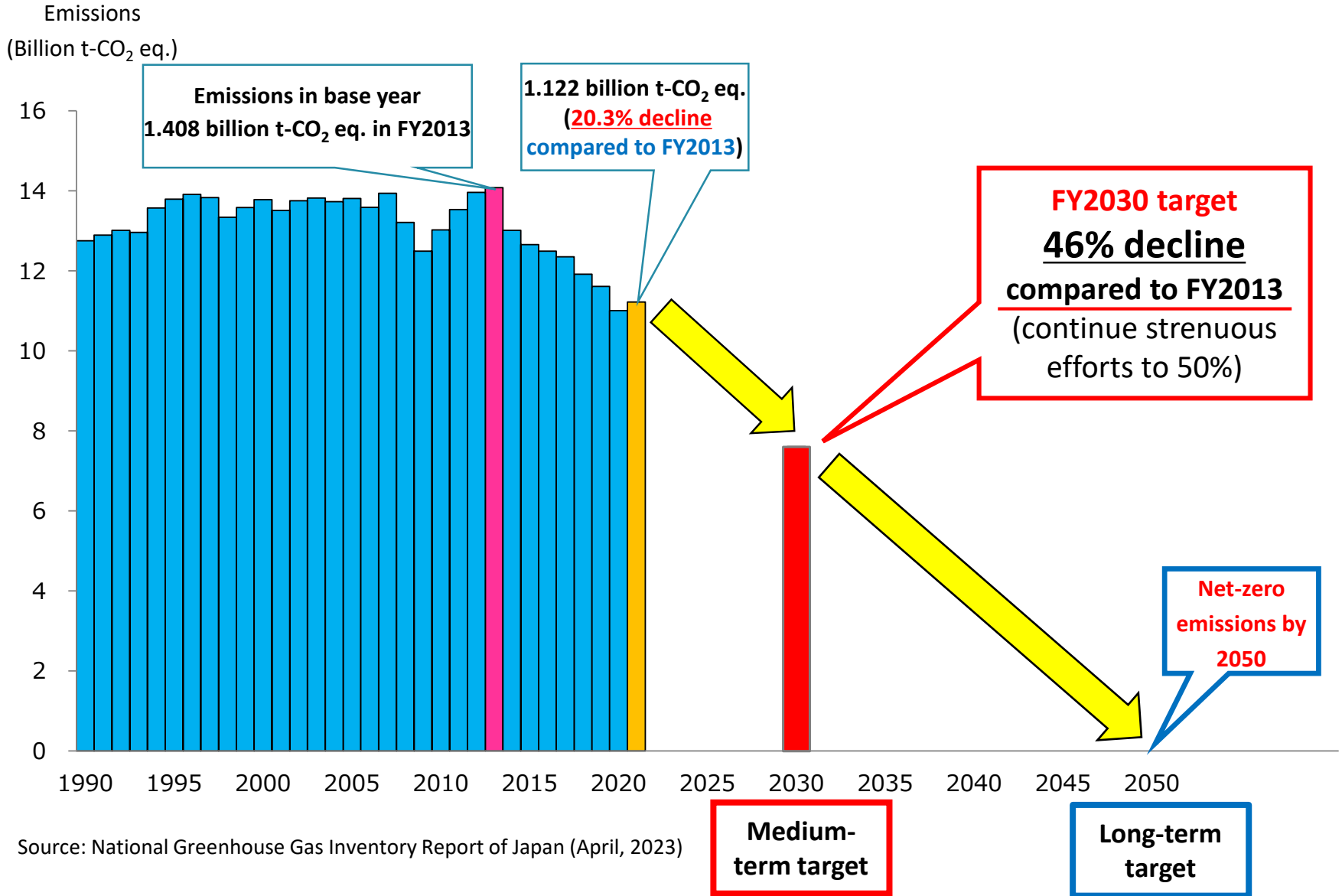
Ministry of the Environment

Country status of a national system for tracking the implementation of NDCs

5 July 2023

Sadamitsu Sakoguchi
Ministry of the Environment, Japan

Japan's Medium- and Long-term Targets for GHG Reduction



Summary of FY2021 GHG Emissions and Removals

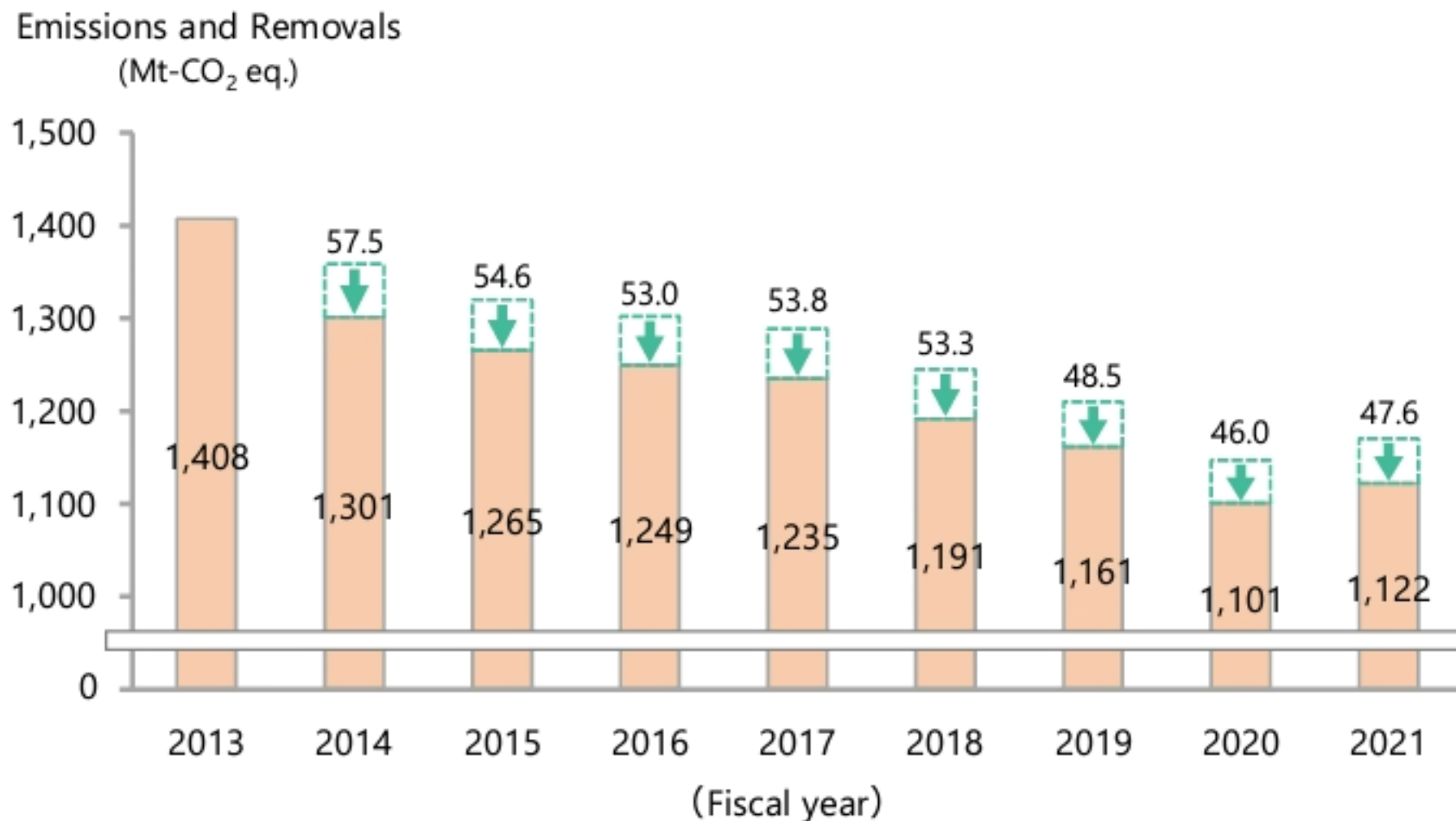


Figure 1 Trends in Japan's national GHG emissions and removals in FY2021 (final figures)

Estimated Emissions & Removals in FY2030

(Unit: Mt-CO ₂ eq.)	FY2013 ^{*1}	FY2020 ^{*2}	FY2021 ^{*2}	-46% (Japan's NDC)
GHG Emissions and Removals	1,408	1,101	1,122	760
Energy-related CO ₂	1,235	967	988	677
Industry	463	354	373	289
Commercial and others	238	184	190	116
Residential	208	167	156	70
Transport	224	183	185	146
Energy conversion	106	78.8	83.7	56
Non-energy-related CO ₂	82.3	74.2	75.8	70.0
CH ₄	30.0	27.4	27.4	26.7
N ₂ O	21.4	19.7	19.5	17.8
Four gases incl. alternative CFC (HFCs, PFCs, SF ₆ , and NF ₃)	39.1	58.1	59.1	21.8
Removals	-	-46.0	-47.6	-47.7
Joint Crediting Mechanism (JCM)	Contributing to international emission reductions and removals at the level of a cumulative total of approximately 100 million tCO₂ by fiscal year 2030.			

*1 Source: the Plan for Global Warming Countermeasures *2 Source: Japan's National Greenhouse Gas Emissions and Removals in FY2021 (Final Figures)

Plan for Global Warming Countermeasures

- The government established the *Plan for Global Warming Countermeasures*, the only general plan regarding global warming in Japan.
- *The Plan sets*
 - targets for reducing GHG emissions and removals,
 - basic matters concerning measures that businesses and citizens should implement, and
 - basic matters concerning measures that the national government and local governments should implement in order to achieve the target.

Evaluation method of the progress (FY2020)

○ Basic Concept

- The progress for individual measures was assessed based on **the forecasts for measure evaluation indicators from FY2020 to FY2030, in addition to the actual values of the measure evaluation indicators in FY2020.** The evaluation then **compared the FY2030 outlook with the target level.**

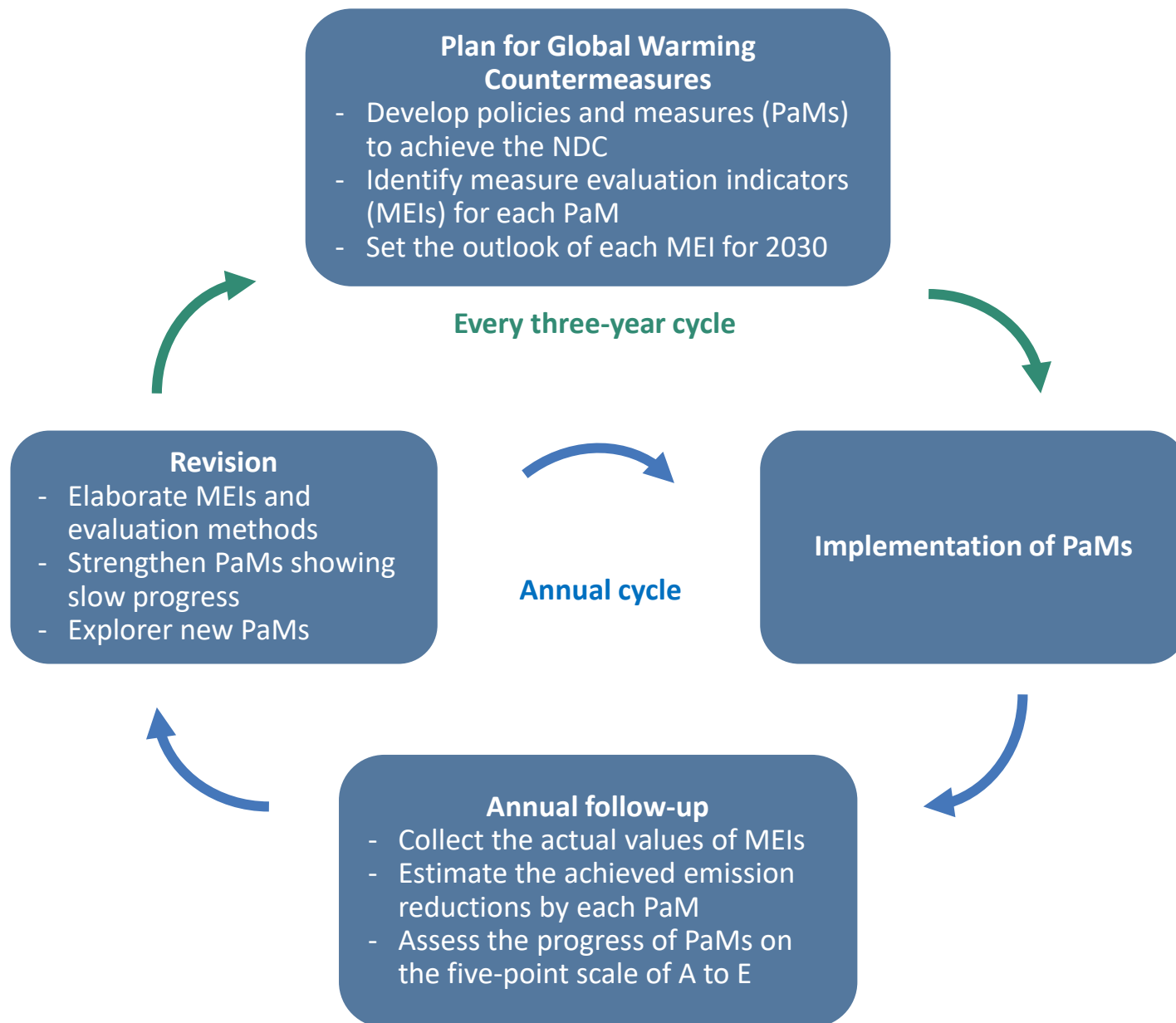
○ Evaluation Method

- Measures implemented in FY2020 were rated from A to E according to the following criteria.
 - A. Measures for which the actual results for FY2020 **already exceed the target level** for FY2030
 - B. Measures for which the evaluation index is **expected to exceed the target level** in FY2030
 - C. Measures for which the evaluation index is **expected to be equivalent to the target level** in FY2030
 - D. Measures for which the evaluation index is **expected to fall below the target level** in FY2030
 - E. Measures for which quantitative targets cannot be obtained

Progress Toward FY2030 Targets

Greenhouse Gas Emissions and Removals (billion t-CO ₂ eq.)	Result in FY2013	Target for FY2030	Result in FY2020	Reduction rate to be achieved by FY2030	Reduction rate in FY2020	FU Evaluation in FY2020 (Cases)
	14.08	7.60	11.06	▲46%	▲22%	A,B,C : 87 D,E : 28
Energy-originated CO ₂	12.35	6.77	9.67	▲45%	▲22%	A,B,C : 73 D,E : 18
Industry	4.63	2.89	3.56	▲38%	▲23%	A,B,C : 25 D,E : 4
Commercial and Others	2.38	1.16	1.82	▲51%	▲23%	A,B,C : 14 D,E : 4
Household	2.08	0.70	1.66	▲66%	▲20%	A,B,C : 8 D,E : 4
Transport	2.24	1.46	1.85	▲35%	▲18%	A,B,C : 21 D,E : 6
Energy conversion	1.06	0.56	0.82	▲47%	▲23%	A,B,C : 5 D,E : 0
Non-Energy-originated CO ₂ , Methane, and N ₂ O	1.34	1.15	1.25	▲14%	▲7%	A,B,C : 5 D,E : 6
Fluorinated gases (HFCs, PFCs, SF ₆ , and NF ₃)	0.39	0.22	0.58	▲44%	+47%	A,B,C : 2 D,E : 3
Carbon sink	-	▲0.48	▲0.45	-	-	A,B,C : 2 D,E : 1

Progress Evaluation of each policies and measures



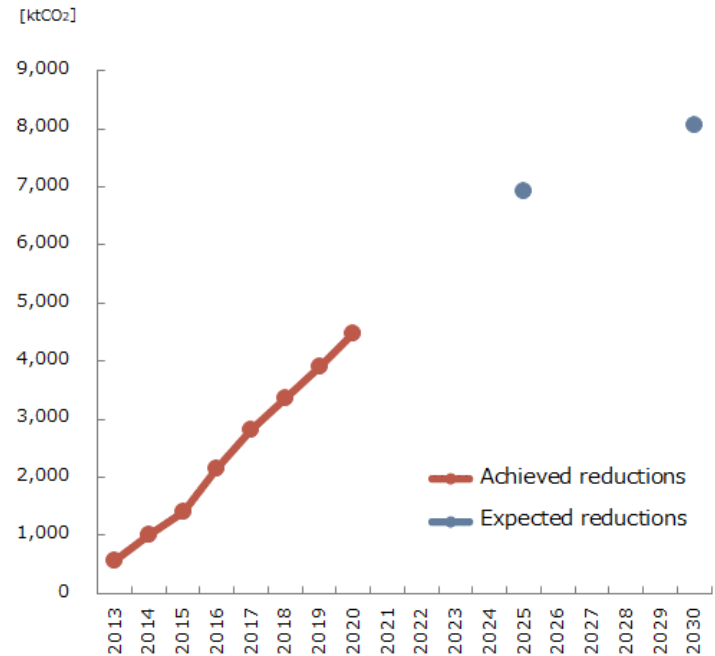
Example of progress evaluation of policies and measures

Introduction of low-carbon industrial furnaces

- ✓ Promote the introduction of energy-efficient industrial furnaces in the industry sector through regulations and subsidies

Measure evaluation indicator	Cumulative number of low-carbon industrial furnaces installed
Progress in the emission reductions	C (Expected to be equivalent to the target level in FY 2030)

Achieved and expected emission reductions



Thank you for your kind attention



Ministry of the Environment