



THE COMMITMENT TO A LOW CARBON SOCIETY

SINCE 1997

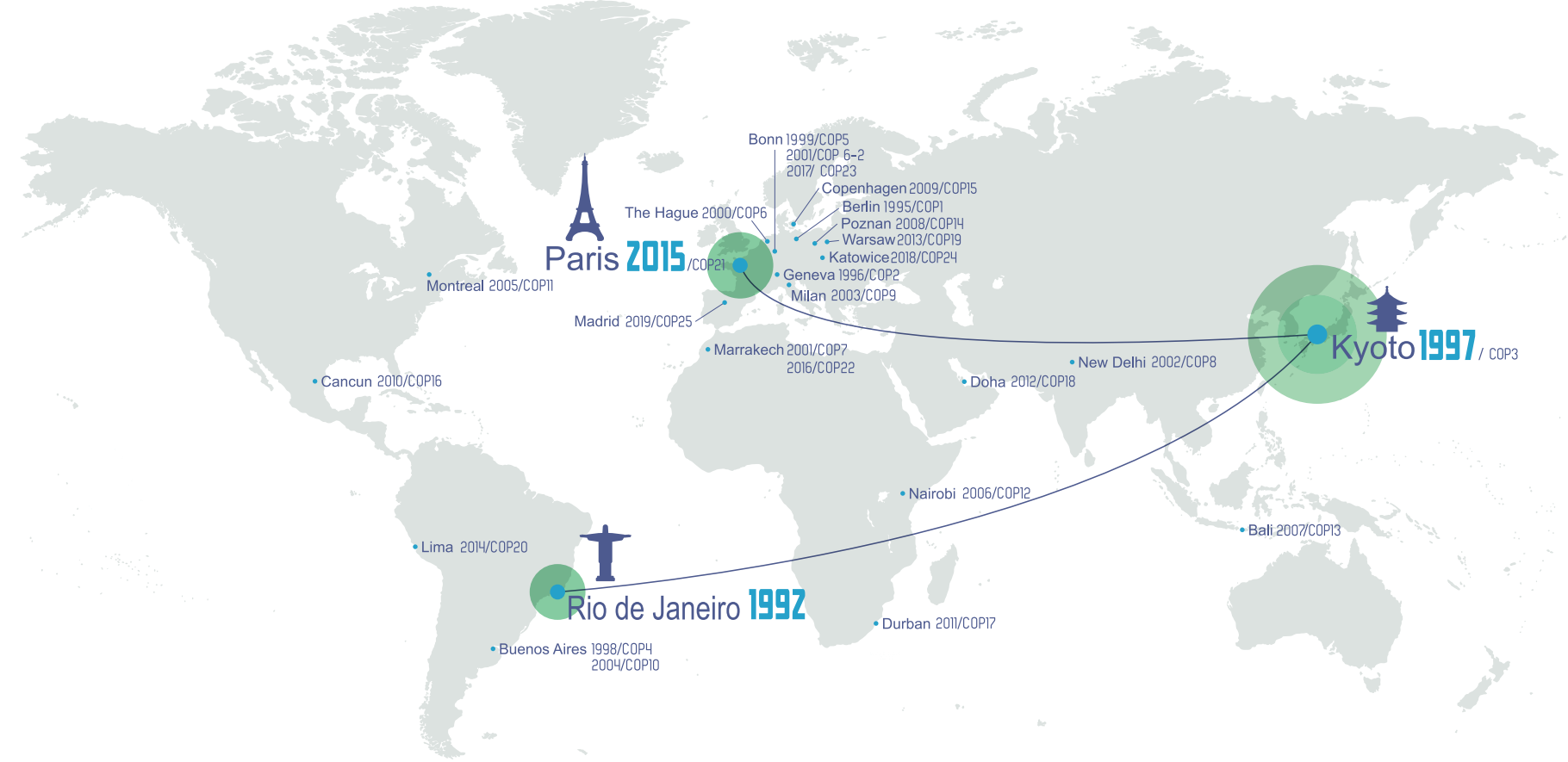
Keidanren
Policy & Action



Keidanren's Progress on Global Warming Countermeasures

KEIDANREN TOOK THE FIRST PIONEERING STEPS ON GLOBAL WARMING COUNTERMEASURES WELL AHEAD OF GOVERNMENTAL POLICY DECISIONS

▶ 1991	April	Presentation on Keidanren Global Environment Charter
1992	June	Adoption of the Framework Convention on Climate Change (UN Conference on Environment and Development)
1996	July	Presented the Keidanren Appeal on Environment (Declaration on Voluntary Action Plan on the Environment)
▶ 1997	June	Presentation on the Keidanren Voluntary Action Plan on the Environment
	December	Adoption of Kyoto Protocol (COP3)
▶ 1998	December	1st Keidanren Environmental Voluntary Action Plan Follow-up (yearly follow-up established)
2002	July	Establishment of the Evaluation Committee for the Voluntary Action Plan on the Environment
2005	April	Kyoto Protocol Target Achievement Plan (cabinet decision)
2009	December	Presentation of the plan for Keidanren's Commitment to a Low-carbon Society (concept and overview)
▶ 2013	January	Announcement of the first phase of the plan for Keidanren's Commitment to a Low-carbon Society (FY 2020 targets)
	March	Policy on current global warming countermeasures (Global Warming Prevention Headquarters)
	April	Starting the plan for Keidanren's Commitment to a Low-carbon Society
▶ 2015	April	Announcement of the second phase of the plan for Keidanren's Commitment to a Low-carbon Society (FY 2030 targets)
	July	Submission of Japan's Intended Nationally Determined Contribution (INDC) to the UN
	December	Adoption of the Paris Agreement (COP 21)
	May	Global Warming Countermeasures (cabinet decision)
2016	November	Entry into force of the Paris Agreement



Industry's voluntary action plans play a crucial role in Japanese government policies to address global warming



Kyoto Protocol Target Achievement Plan (revision)

(Cabinet decision, March 28, 2008)



Policy on current global warming countermeasures

(Decision by the Global Warming Prevention Headquarters on March 15, 2013)



Japan's Intended Nationally Determined Contribution(INDC)

(Decided by the Global Warming Prevention Headquarters and registered with the UN, July 17, 2015)



Global Warming Countermeasures

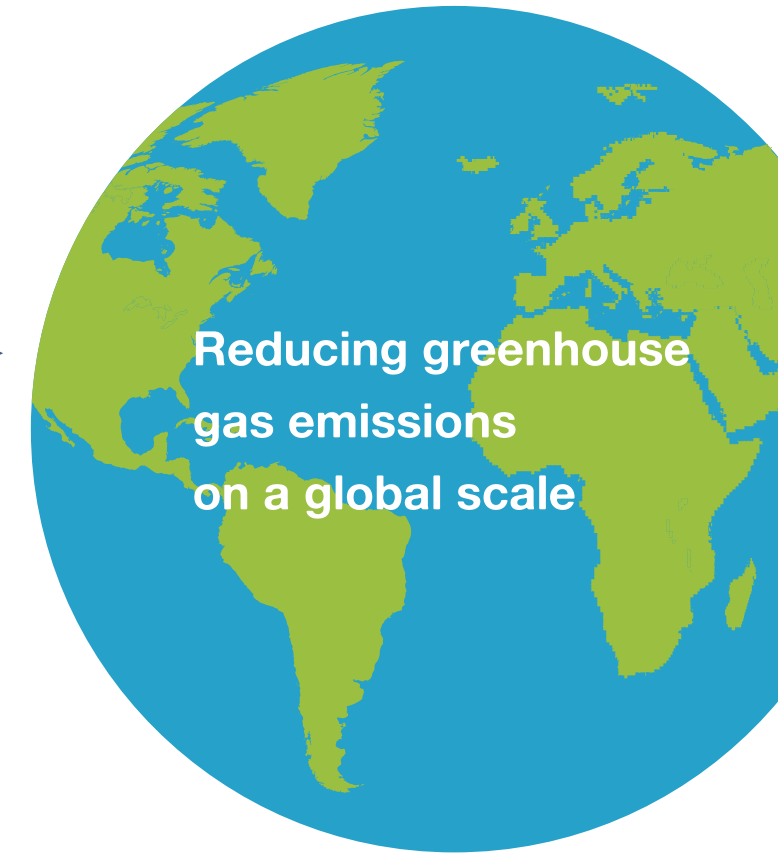
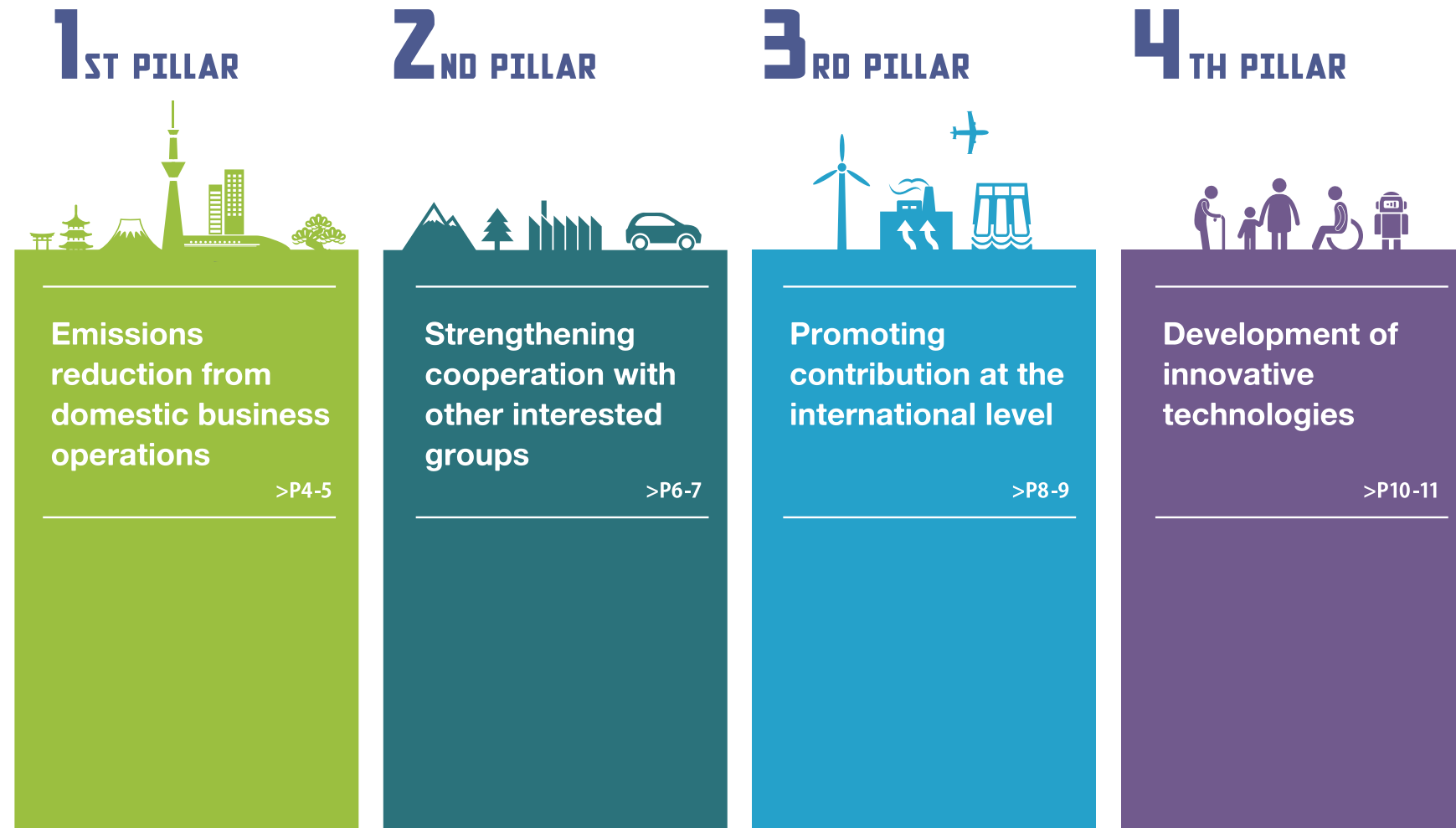
(Cabinet decision, May 13, 2016)



Framework of Keidanren's Commitment to a Low-carbon Society

THE 4 PILLARS FOR REDUCTION OF GLOBAL GREENHOUSE GAS EMISSIONS

Industries participating in Keidanren's Commitment to a Low-carbon Society move towards 2020 and 2030 targets guided by the 4 pillars: (1) Emissions reduction from domestic business operations (2) Strengthening cooperation with other interested groups (3) Promoting contribution at the international level (4) Development of innovative technologies

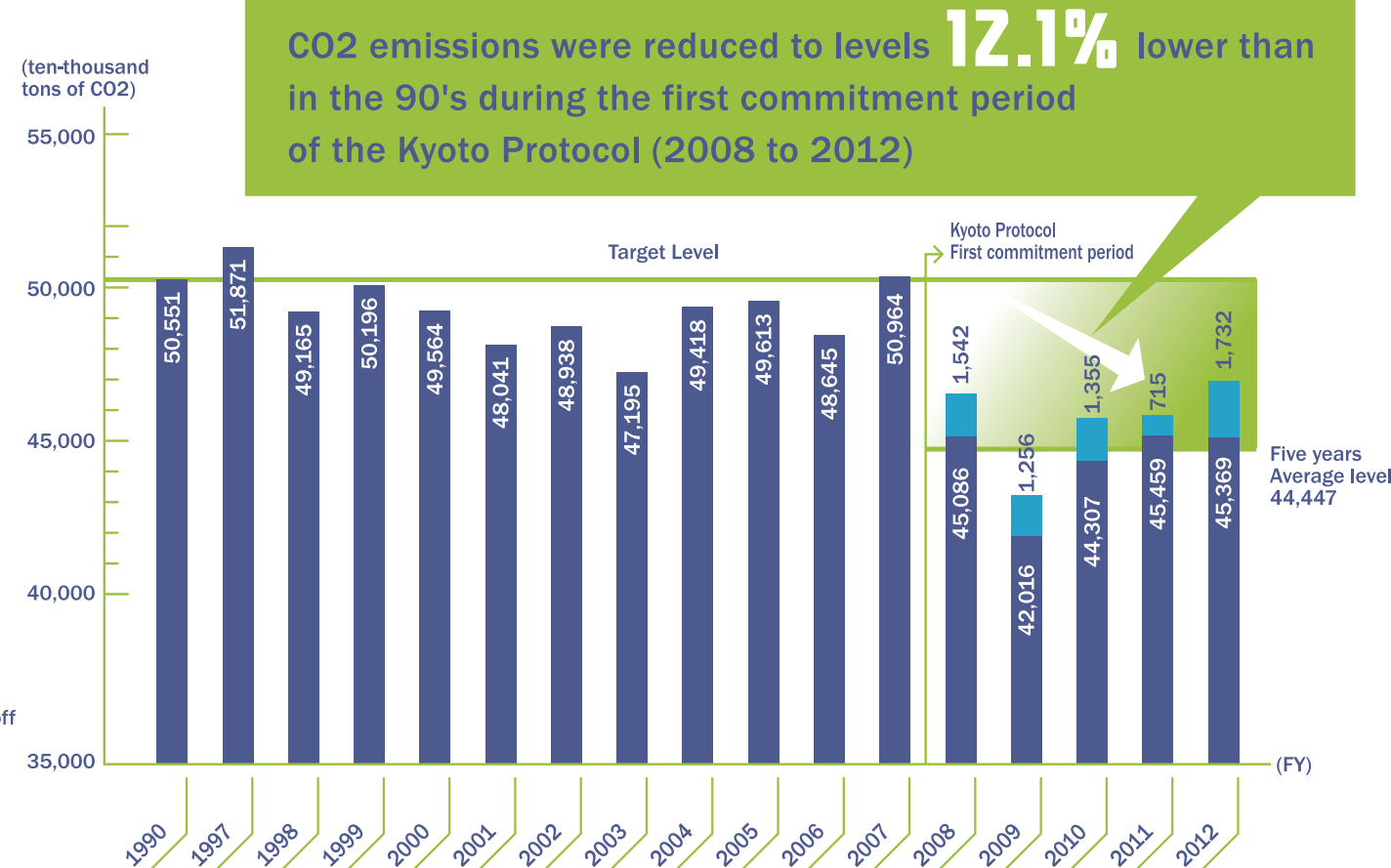


Enhancement of PDCA

Emissions reduction from domestic business operations

INDUSTRIES USE PDCA CYCLES TO SET AND IMPROVE OWN TARGETS AND REDUCE CO2 EMISSIONS INSIDE JAPAN

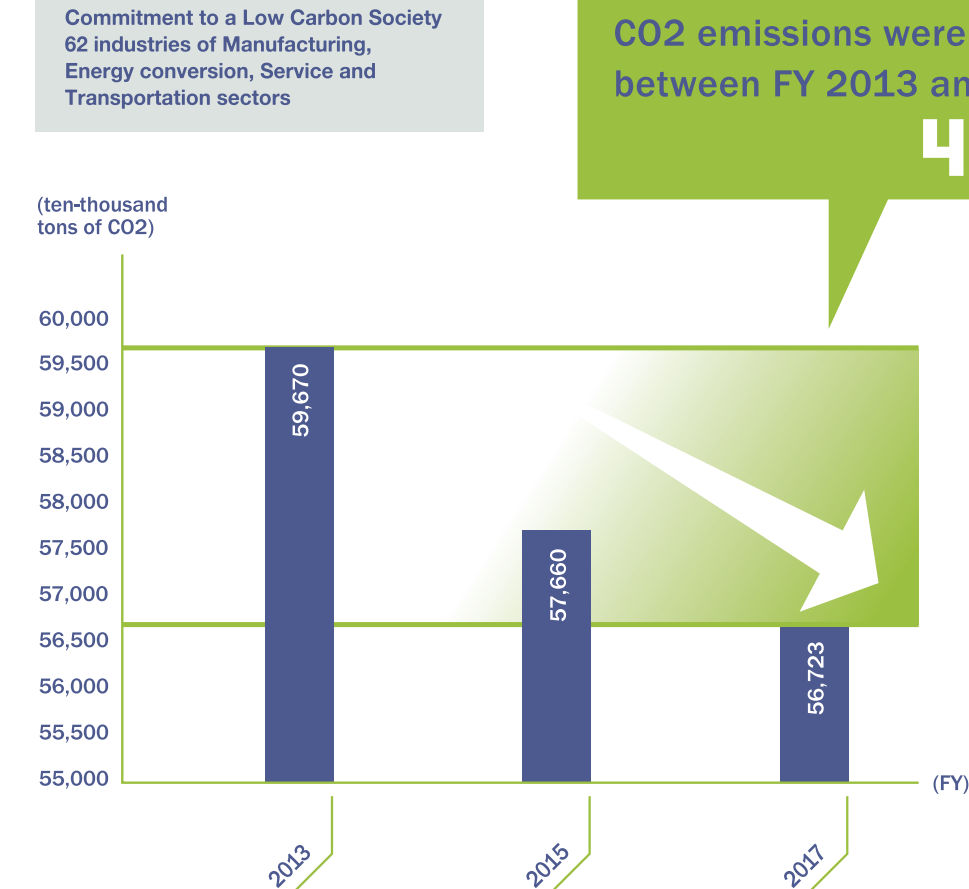
Voluntary Action Plan on the Environment
34 industries of Manufacturing and Energy conversion sectors



*1. Figures from 2008 and later are post-credit write-off. *2. Five-year average post credit write-off decreased 9.5% from that of FY 1990.

Industries work towards achievement of targets formed on the premise of the maximum introduction of the best available technology (BAT) that can be economically utilized, aggressive energy conservation and other efforts.

Commitment to a Low Carbon Society
62 industries of Manufacturing, Energy conversion, Service and Transportation sectors



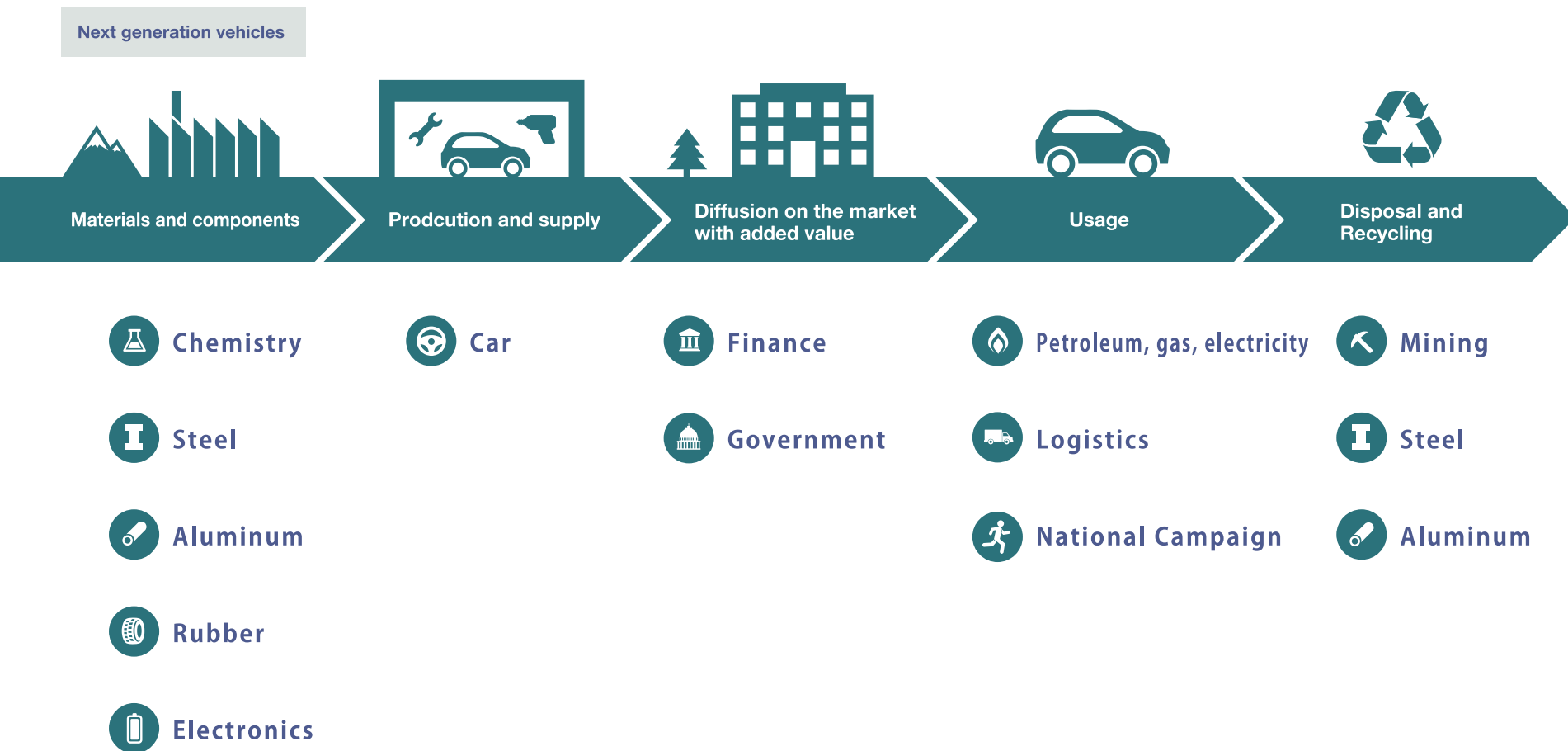
Source: Commitment to a Low-carbon Society 2018 Follow-up Results, Summary

Actions to achieve targets

- Introduction of energy-saving facilities, processes, equipment, etc.
- Energy recovery and effective utilization.
- Fuel conversion, Utilization of renewable energy, etc.
- Operation improvement of facilities, equipment.

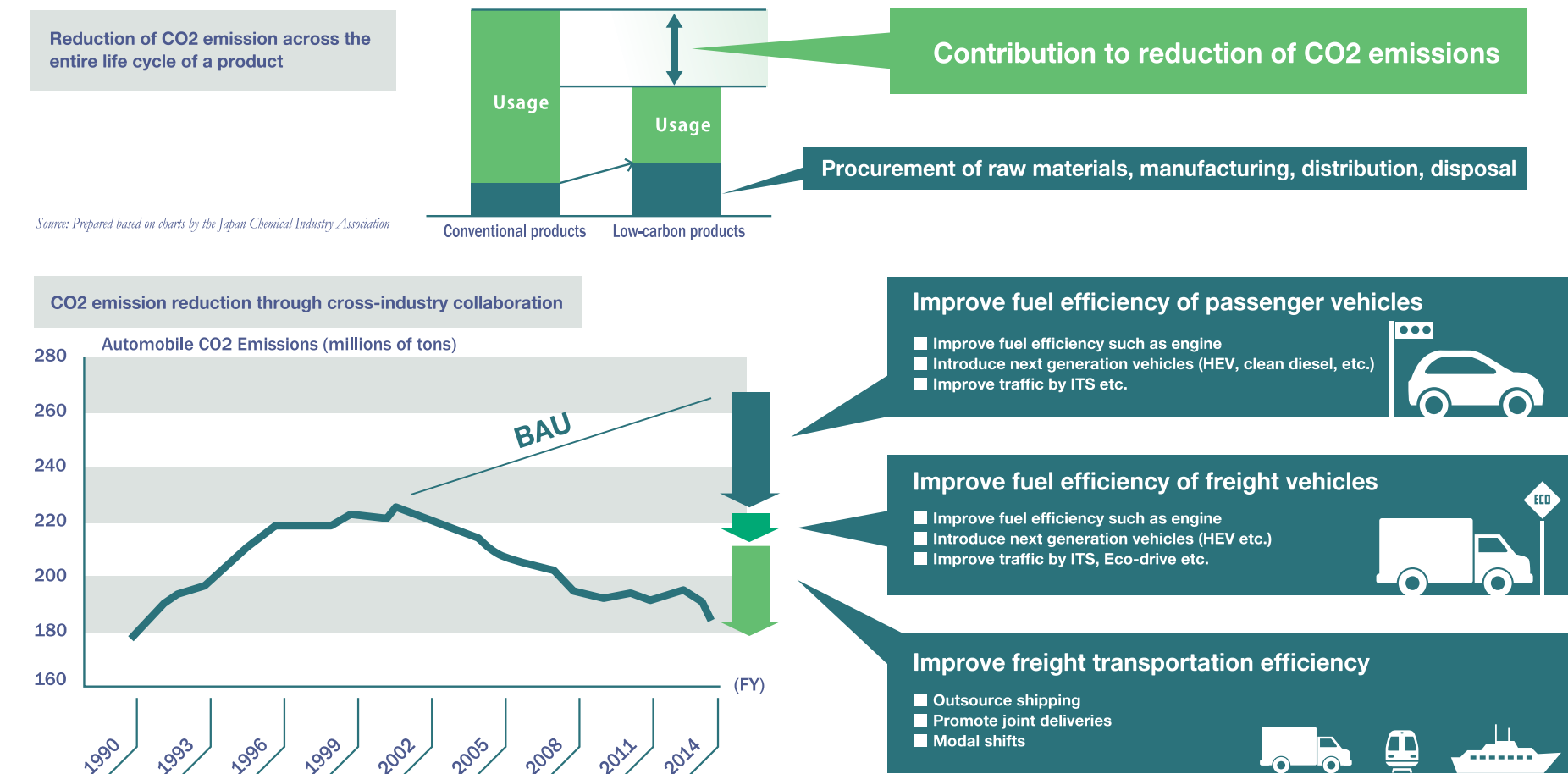


Strengthening cooperation with other interested groups CONTRIBUTING TO THE CARBON EMISSION REDUCTIONS THROUGH CROSS-SECTOR COOPERATION ACROSS THE VALUE CHAIN



Source: References and Examples from Commitment to a Low-carbon Society 2016 Follow-up Results, Summary

Industries not only reduce emissions from their domestic operations, but also procure and supply low carbon products and services, and engage in national campaign to contribute to emission reduction across the value chain.



Source: Japan Automobile Manufacturers Association, Inc.

Promoting contribution at the international level

CONTRIBUTING TO CARBON EMISSIONS REDUCTION OVERSEAS THROUGH LOW CARBON/ENERGY EFFICIENT TECHNOLOGIES

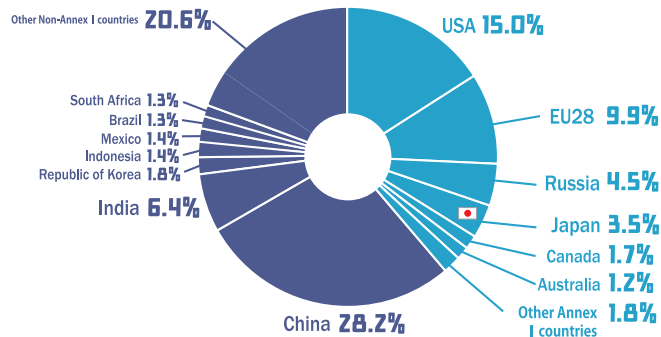


Importance of emissions reduction on a global scale

Japan accounts for approximately 3.5% of the world's CO2 emissions, while emerging and developing countries (Non-annex I countries) make up 62%, with China being the highest emitter (28.2%).

Since emissions from emerging and developing countries are expected to continue to increase in the future, it is essential to reduce GHG emissions globally.

Share of CO2 Emissions in Energy Source by Country



ANNEX I COUNTRIES

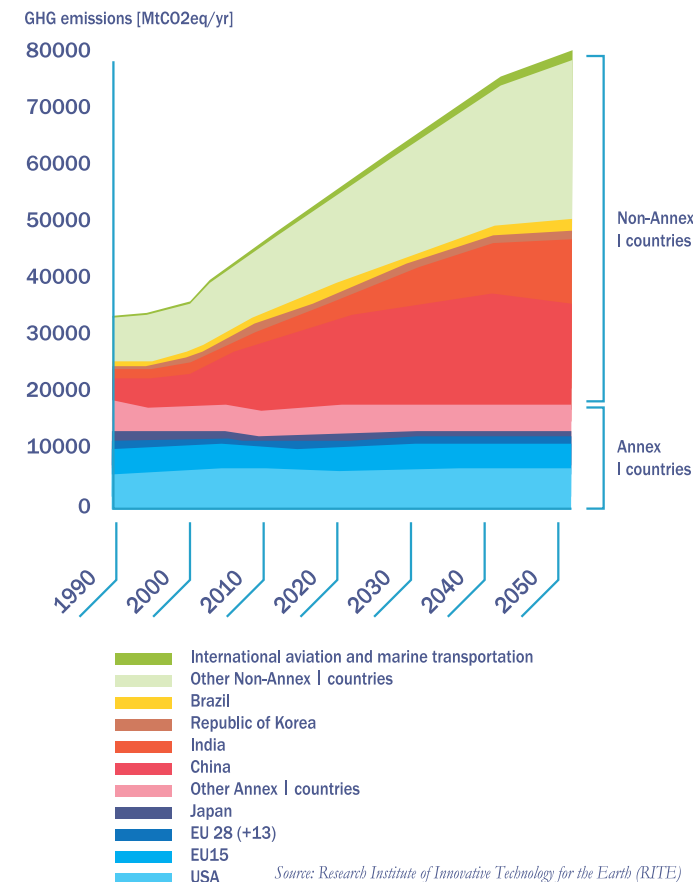
38%

NON-ANNEX I COUNTRIES

62%

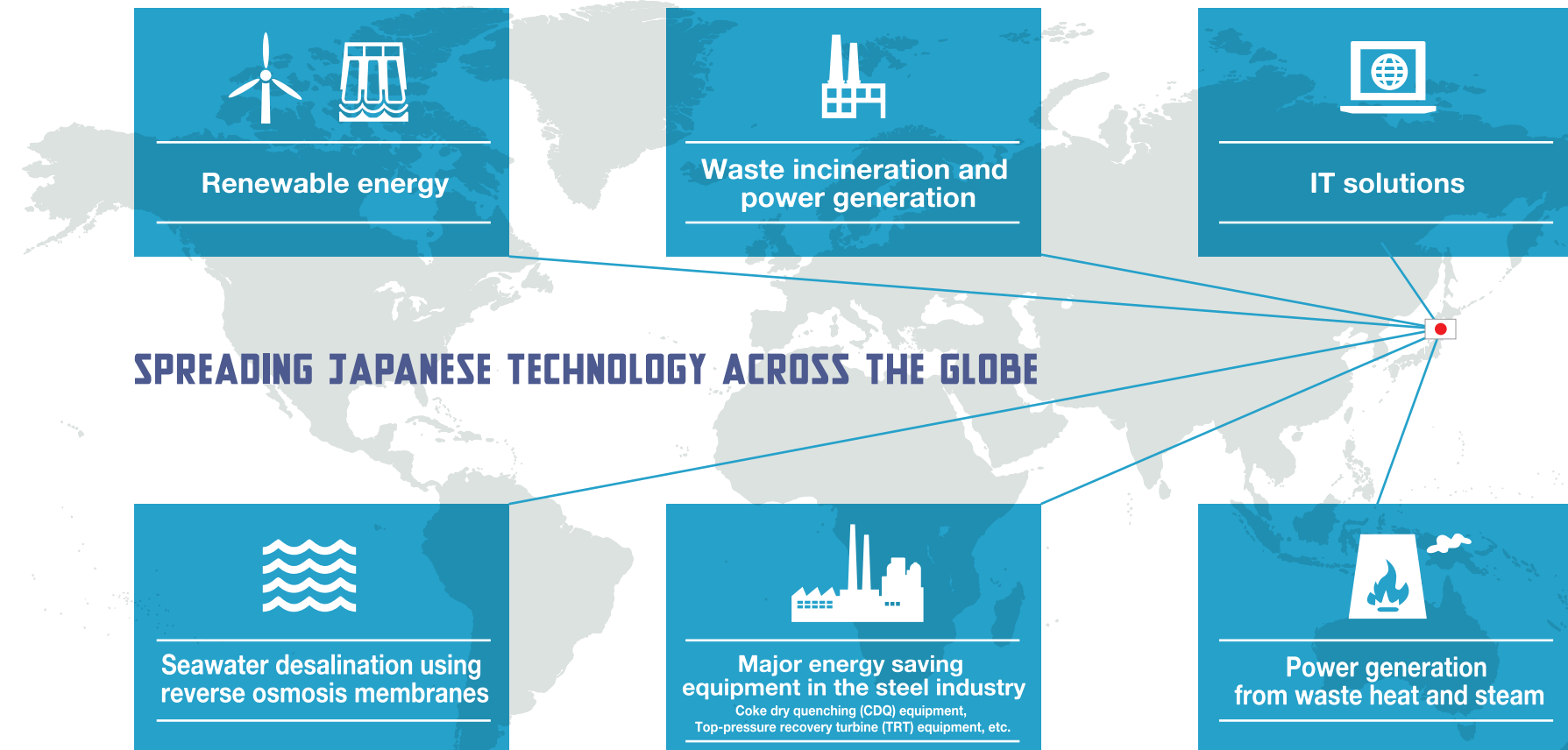
Source: Prepared based on the IEA CO2 Emissions from Fuel Combustion, 2018 Edition

Forecast Greenhouse Gas Emissions by Country (2050)



Source: Research Institute of Innovative Technology for the Earth (RITE)

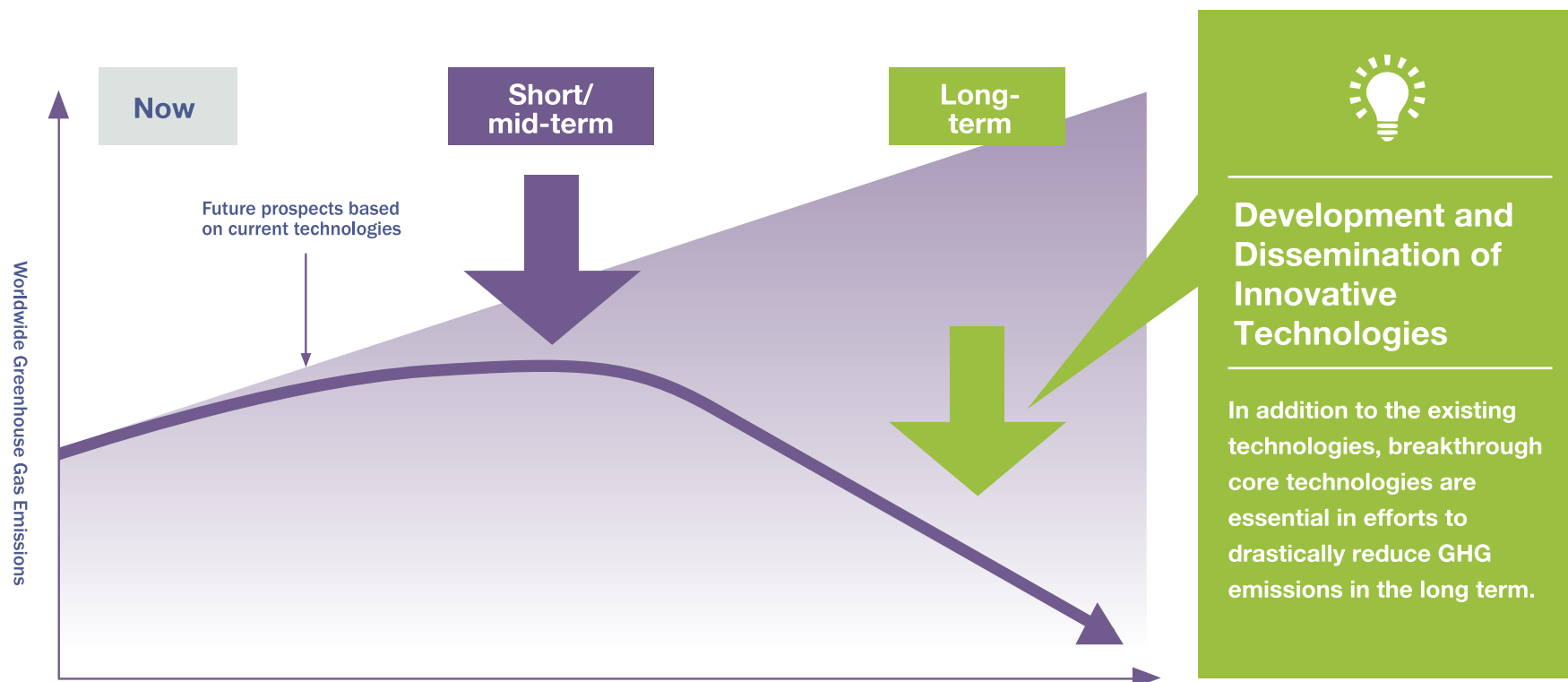
Industries contribute to global carbon reduction by proactively offering their low carbon/energy efficient technologies and Know-how. They also offer support at international conferences by working cooperatively towards the creation of international standards and sharing the wide variety of global warming countermeasures used in Japan.



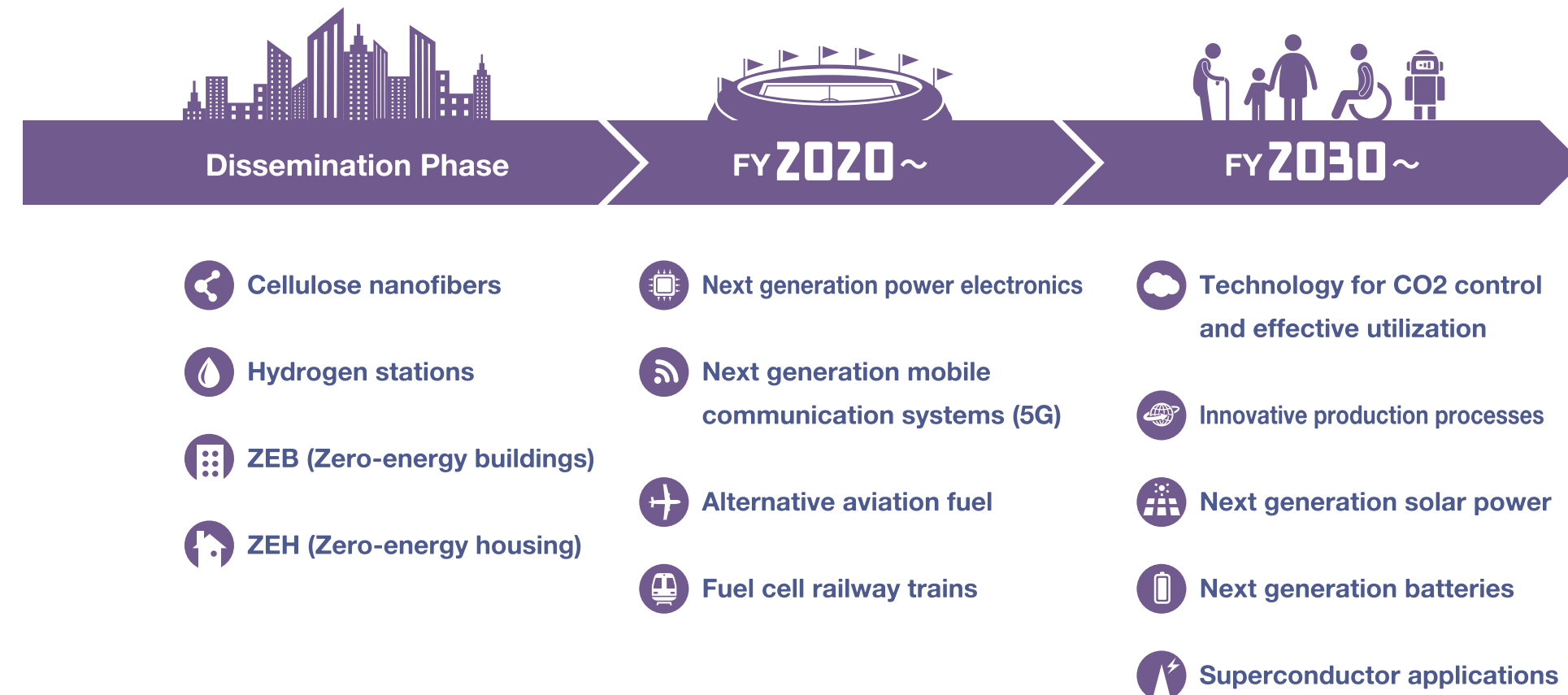
Source: Commitment to a Low-carbon Society 2016 Follow-up Results, Summary

Development of innovative technologies PURSUING THE INNOVATION AS THE KEY TO DRASTICALLY REDUCE GLOBAL GHG EMISSIONS IN THE LONG TERM

Employing technology for long-term greenhouse gas reduction on a global scale (image)



Industries work towards the development and utilization of innovative technologies through cooperation across industries, government and academia. Collaborations with various sectors will lead to further development and dissemination of innovative services and social systems.





3 main points for implementing the Commitment to a Low-carbon Society

THE COMMITMENT TO A LOW-CARBON SOCIETY IS AN EFFECTIVE, AUTONOMOUS AND CONTINUOUS ACTION BEFITTING THE SPIRIT OF THE PARIS AGREEMENT

Point 1 Effectiveness

Industries that are in the best position to understand industry outlook and the best available technologies set their own targets and implement their plans in the four pillars. This framework is highly effective and efficient to address challenges to global warming.



The four pillars

Point 2 Autonomy

Regardless of governmental policy decisions and regulations, industries set and improve their targets with the support of third party reviews. This framework, known as the pledge and review system, is the same method adopted in the Paris Agreement which enables participation across a wide range of entities and countries.



Pledge and review

Point 3 Continuity

PDCA cycle has been playing a key role to the continuous achievements of targets for the last decades. It enables industries to increase their ambition of targets through checking their progress.



PDCA cycle



PLEDGE & REVIEW

A system where the participant promises to engage in global warming countermeasures (pledge) then receives evaluations at regular intervals (review).

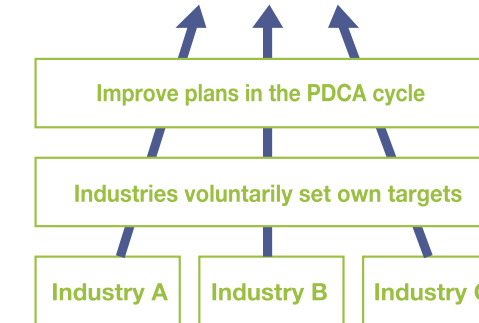


PDCA

The Plan-Do-Check-Action Cycle enables industries to determine, execute review and implement the plan accordingly.



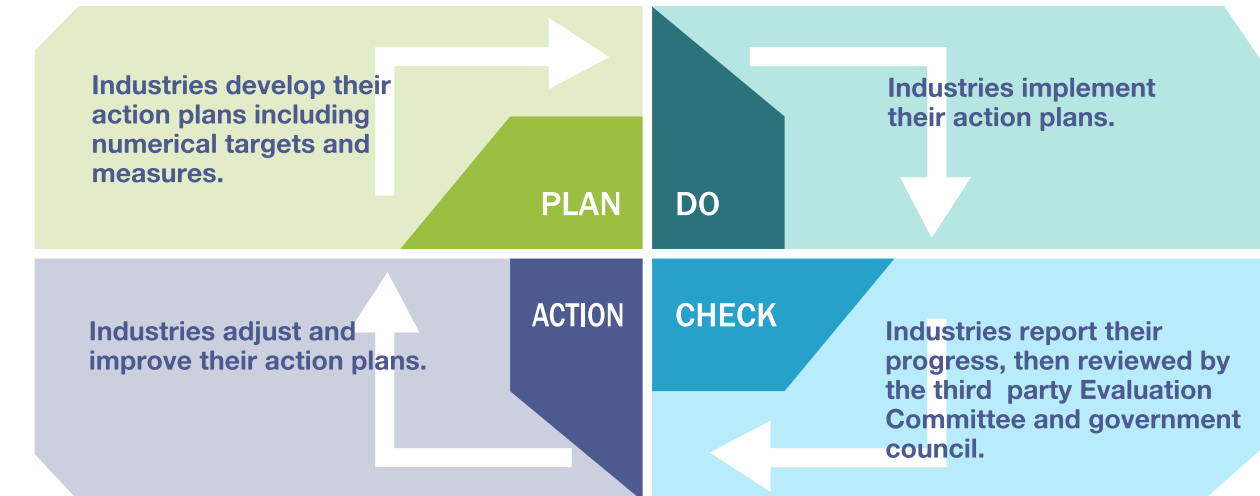
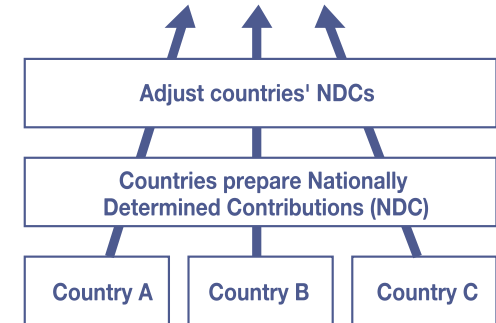
Keidanren's Commitment to a Low-carbon Society



REVIEW PLEDGE



The Paris Agreement



THE COMMITMENT TO A LOW CARBON SOCIETY

SINCE 1997



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