

A Shared Vision for Long-term Cooperative Action (Long-term Goal)

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Science requires reducing global GHG emissions at least by half

- The ultimate objective of the UNFCCC is “to achieve stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system”.
- According to the scientific knowledge, current annual fossil CO₂ emissions are 7.2 GtC per year (IPCC AR4). The capacity of sinks is estimated at only 3.1 GtC per year.

G8 Hokkaido Toyako Summit Leaders Declaration

(8 July 2008)

23. ... We seek to share with all Parties to the UNFCCC the vision of, and together with them to **consider and adopt in the UNFCCC negotiations, the goal of achieving at least 50% reduction of global emissions by 2050**, recognizing that this global challenge can only be met by a global response, in particular, by the contributions from all major economies, consistent with the principle of common but differentiated responsibilities and respective capabilities. ...

Declaration of Leaders Meeting of Major Economies on Energy Security and Climate Change

(9 July 2008)

4. ... We believe that it would be desirable for the Parties to **adopt in the negotiations under the Convention a long-term global goal for reducing global emissions**, taking into account the principle of equity. ...

Need to peak-out, decline, and then reduce at least by 50%

Future projection (BAU case)

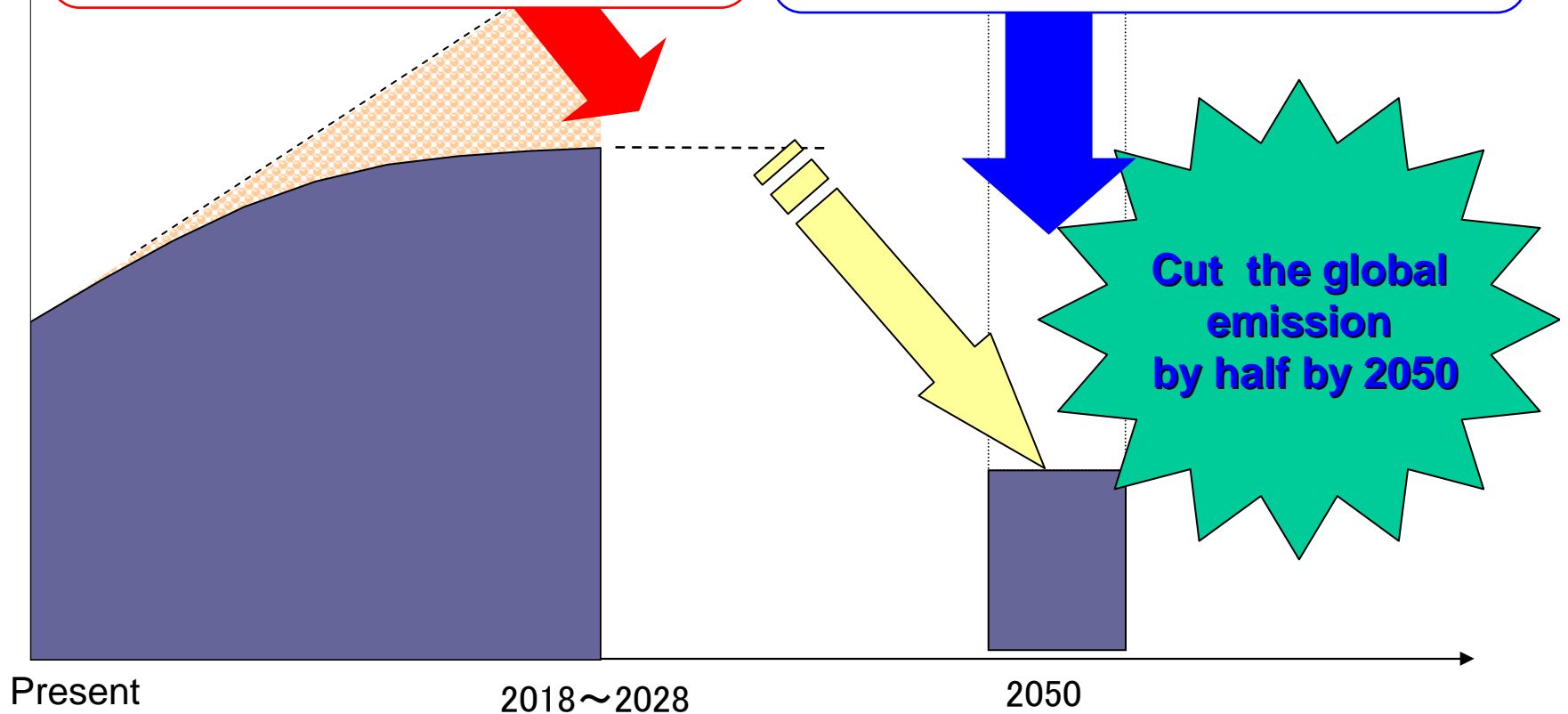
< Med-term Strategy >

< Long-term Strategy >

Global CO2 emissions

-peak out global emission within the next 10 to 20 years

-develop innovative technologies
-shift to low carbon society



Transition to a low-carbon society

- A low carbon society should be built through technological innovation, lifestyle innovation, and infrastructure innovation.
 - Innovative technologies will play a central role in realizing a low carbon society.
 - A shared vision on the long-term emission reduction goal and the road toward it will promote public and private investment in energy-related R&D.
- *All countries are required to take actions based on the principle of “common but differentiated responsibilities and respective capabilities”.*
- *Developed countries should lead the global efforts of reducing emissions.*