

# **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 CO<sub>2</sub> 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

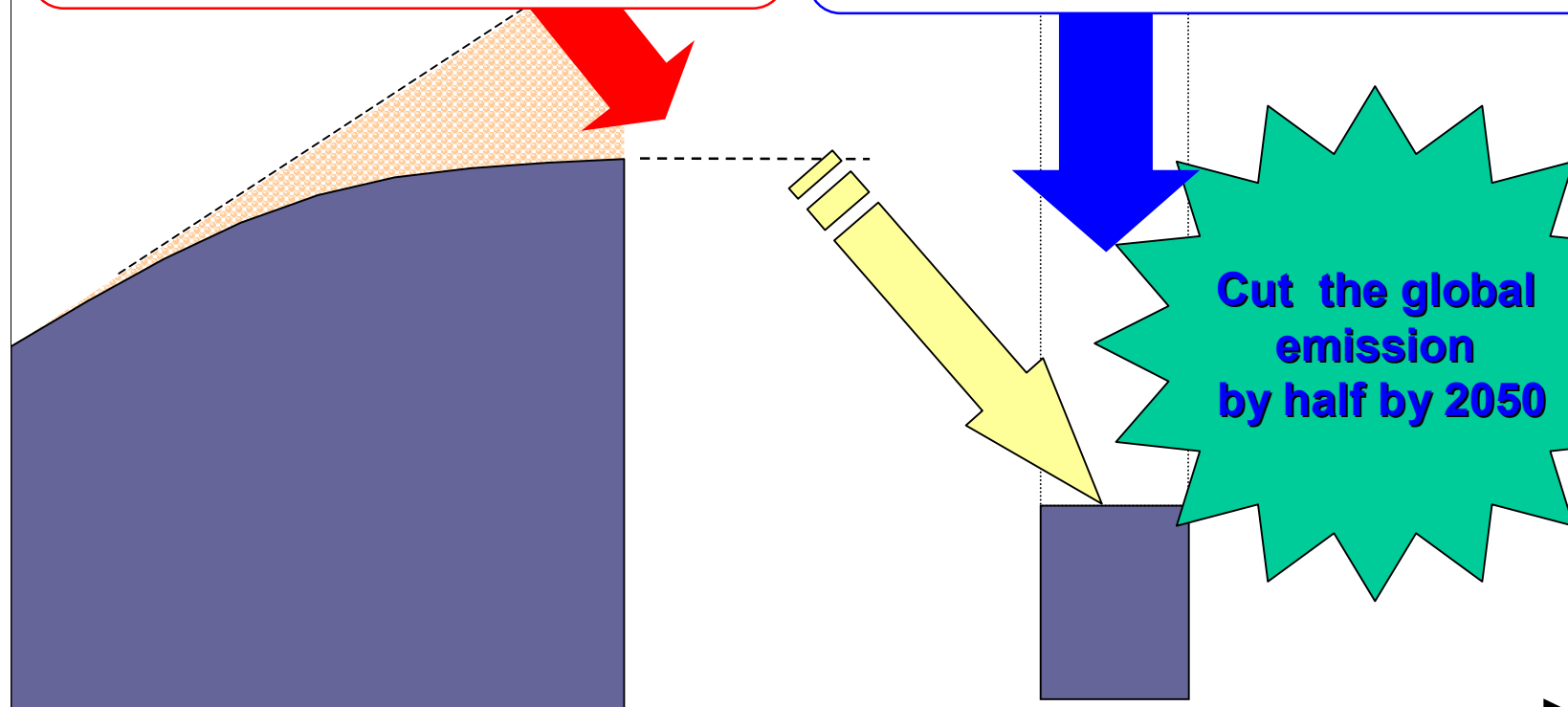
-develop innovative technologies  
-shift to low carbon society

Cut the global emission by half by 2050

Present

2018~2028

2050



# 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.*