

Addressing Climate Change:

24 May 2008

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Prof. Kaya's Identity

CO2 emissions =

Energy Efficiency

$\frac{\text{Energy Consumption}}{\text{GDP}}$

GDP

×

Carbon Intensity to Energy

$\frac{\text{CO2 emissions}}{\text{Energy Consumption}}$

Energy Consumption

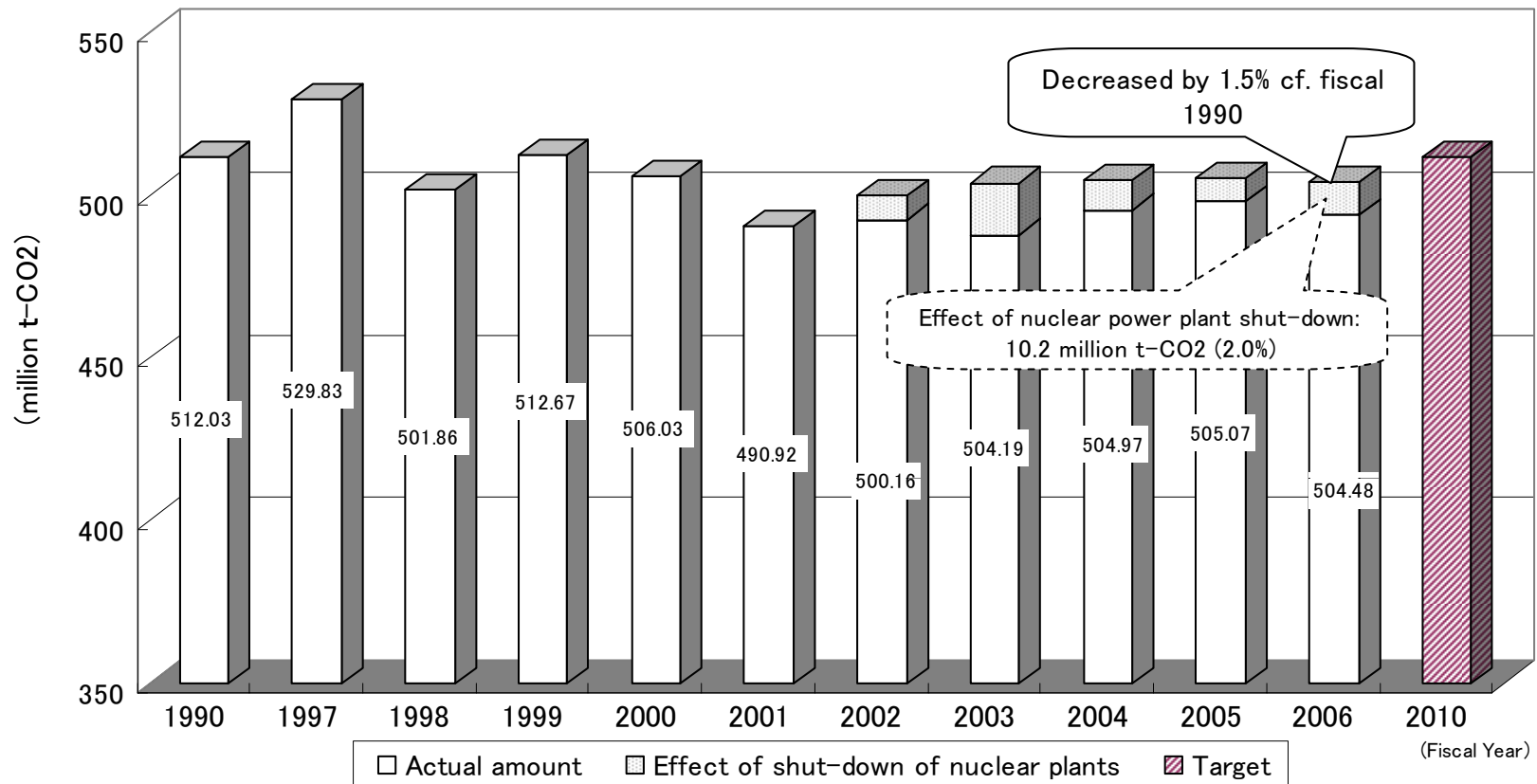
×

$\frac{\text{GDP}}{\text{Population}} \times \text{Population}$

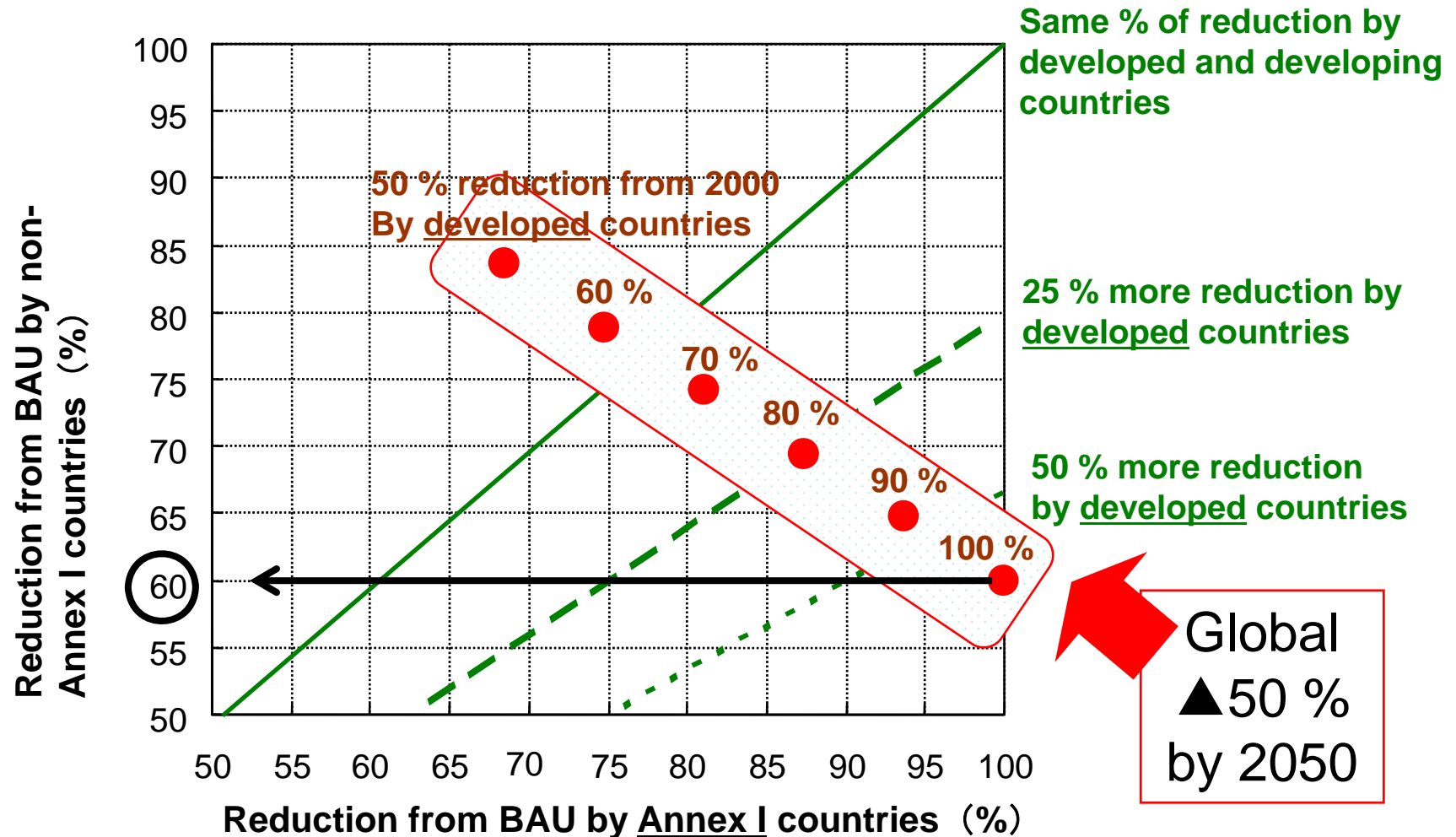
fundamental rights

KEIDANREN Action Plan

-CO2 emissions by 35 Industries in the Industrial and Energy Converting Sectors-



What is Differentiated Responsibilities to Achieve 50 by 50 ?



Should developed countries realize no emission, developing countries would still need to reduce 60% from BAU emission in 2050.

(Source: Akimoto, RITE, Yamaguchi, Tokyo University)