

# **Opening Remarks**

for Side Event on Higher Energy Efficient Cooling and HFC Lifecycle Management as a Key Contribution to Climate Change Mitigation and Adaptation

December 5, 2023

Japan Pavilion at UNFCCC COP28 in Dubai, the United Arab Emirates

#### Japan's CO<sub>2</sub> emissions and solution to the world

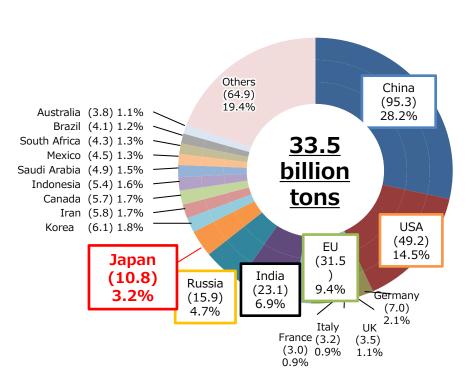


- Most of Japan's CO<sub>2</sub> emissions are energy-related.
- Japan will contribute to global emission reduction by providing solution for ourselves and beyond.

#### Japan's CO<sub>2</sub> emissions (2020)

#### Non-energy-related CO<sub>2</sub> 7% **Others** 30 million tons **Energy-related** CO<sub>2</sub> 93% **Industrial processes** 40 million tons **Transportation** Energy 180 million tons conversion 1.04 420 million billion Households tons 60 million tons tons Commercial industry 60 million tons **Industrial** sector 250 million tons

# Global energy-related CO2 emissions (2020)



(Source)
Created from Greenhouse Gas Inventory Office
"Japanese greenhouse gas emission data"

### **Key Elements of G7' Communiqué**



#### Various pathways according to each country's situation

highlight various pathways according to each country's energy situation, industrial and social structures, and geographical conditions should lead to our common goal of net zero Energy security and clean energy transitions (Para 49)

#### **Engagement with other developing and emerging countries**

We reaffirm the critical importance of collective action, and engagement with other developing and emerging countries, particularly within the G20, to accelerate emission reduction, including by supporting their transition to net-zero GHG emissions through various and practical pathways taking into account national circumstances

Collective action (Para 58)

#### **Energy efficiency as the "first fuel"**

We highlight the role of energy efficiency as the "first fuel" as a key pillar in the global energy transition towards net-zero GHG emissions in 2050.

Energy efficiency (Para 63)

#### **Avoided Emissions**

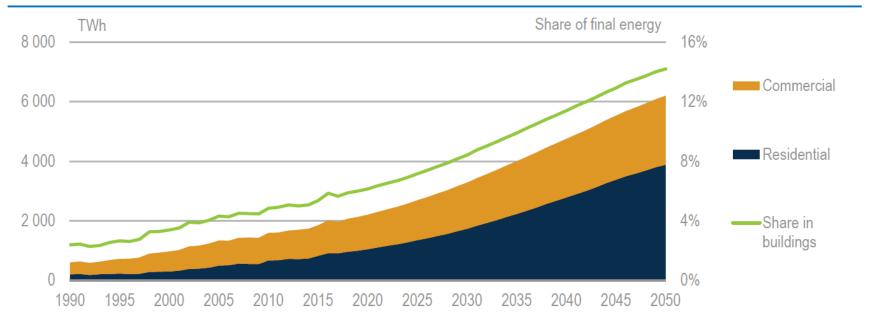
There is also value in acknowledging the contribution of a certain entity to emission reductions of other entities by providing decarbonization solutions in a given system, in other words "avoided emissions".

### Importance of higher energy efficient cooling



 In the IEA report, global energy use for space cooling is projected to jump from 2,020 TWh in 2016 to 6,200 TWh in 2050 – an astounding threefold increase.

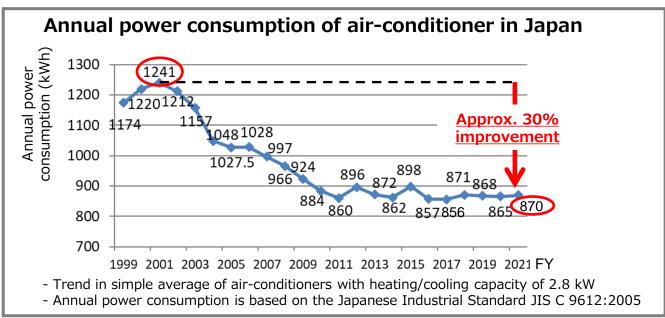
Figure 3.5 • World energy use for space cooling by subsector in the Baseline Scenario

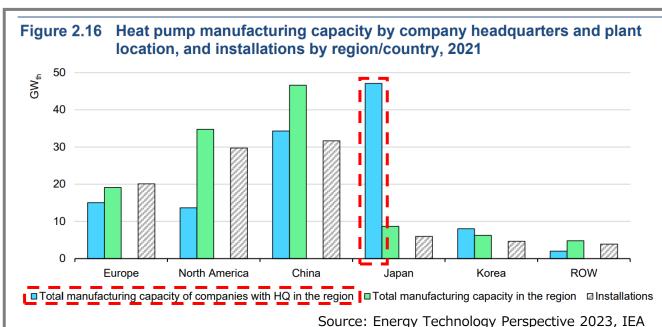


Key message • On current trends, energy needs for space cooling – almost entirely in the form of electricity – will more than triple between 2016 and 2050, driven mainly by the residential sector.

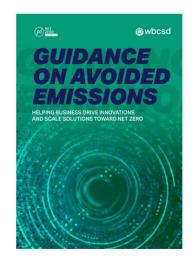
#### Japan's efforts and technologies contribute to the world







### WBCSD published Guidance on Avoided Emissions



### METI hold GGX×TCFD Summit to accelerate discussion on AE





# Thank you for your kind attention