

Decarbonizing Global Supply Chain through Spurring Consumer-Driven Green Investment

June 2023

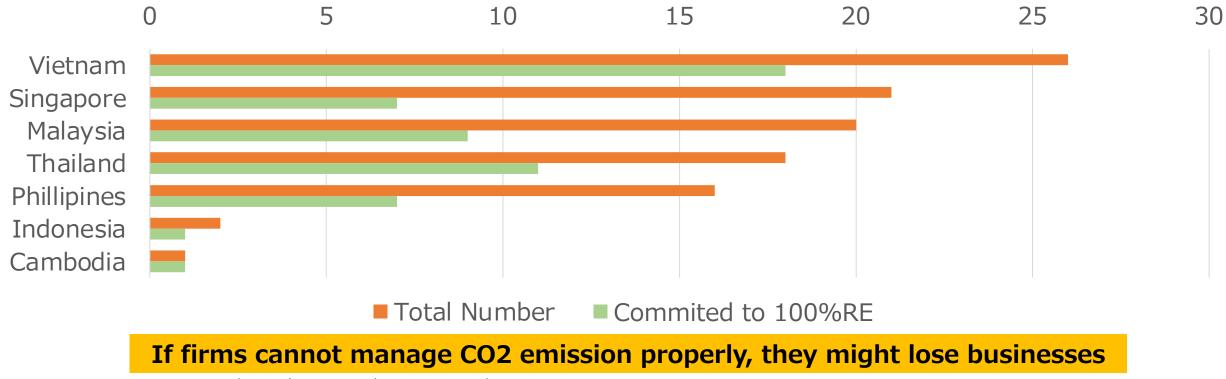
Chief Representative of AEM-METI Economic and Industrial Cooperation Committee (AMEICC) Secretariat

Ryosuke Fujioka

Pressures for Quicker Decarbonization from Stakeholders

- As a cooperate strategy, <u>many firms must get decarbonized due to strong pressures from their</u> <u>stakeholders</u> (e.g. business partners, customers and banks)
- Apple, for example, globally requests its supplier to use 100% renewable electricity for its products by 2030 as their manufacturing process of their business partners accounts for about 70% of the entire CO2 emission of their products.
- As a result, more than 250 partners have committed to Apple's request and switched their electricity to renewables.

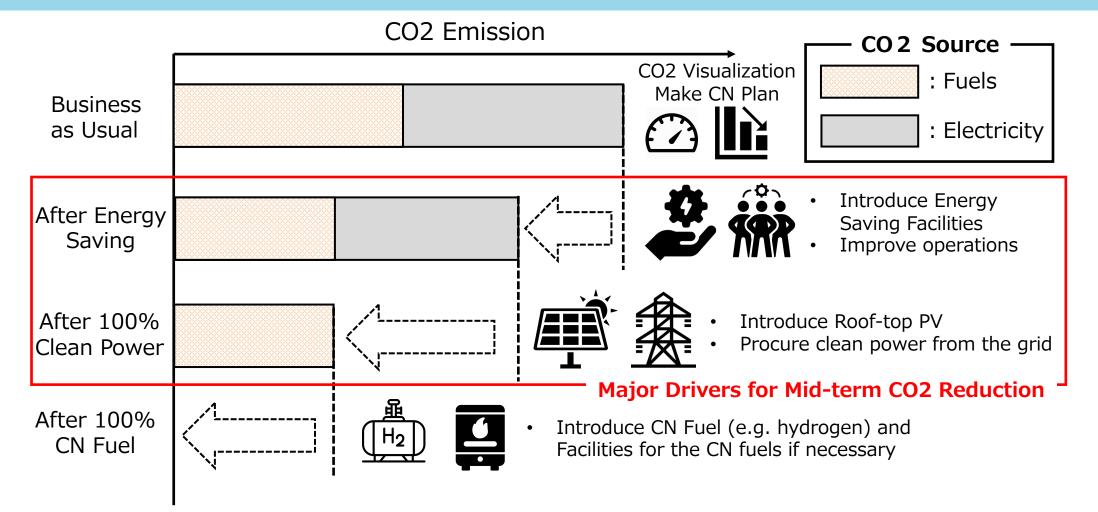
Number of Production Sites by Country which has business relationship with Apple



Source: 2022 Apple Supplier List, Apple Environmental Progress Report 2022 etc.

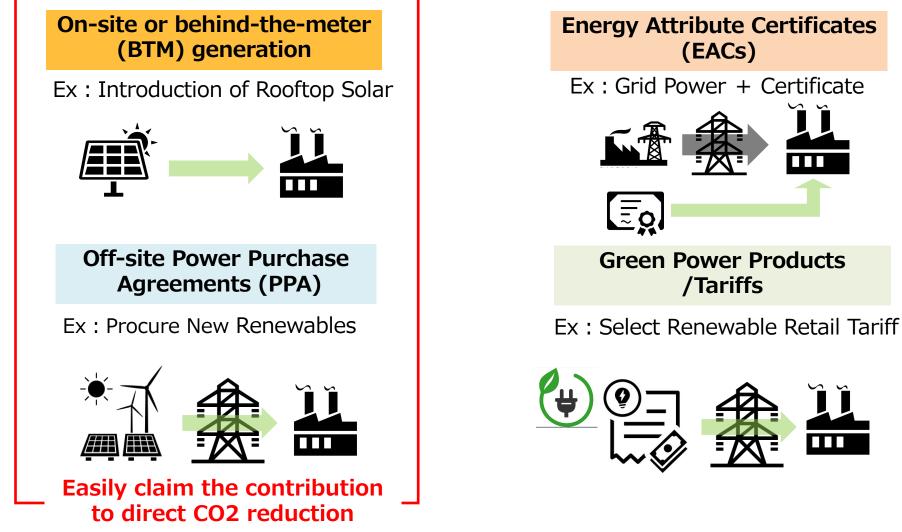
Basic Cooperate Strategy toward Carbon Neutrality

- In order to reduce CO2 emission in a cost-effective way, <u>firms visualize their CO2 emissions and establish</u> <u>a concrete plan toward Carbon Neutral</u> as a first step.
- Based on their own plans, the firms <u>save their energy as much as possible and switch to clean power</u>. Then, they <u>use decarbonized fuels</u> such as hydrogen and biomass.



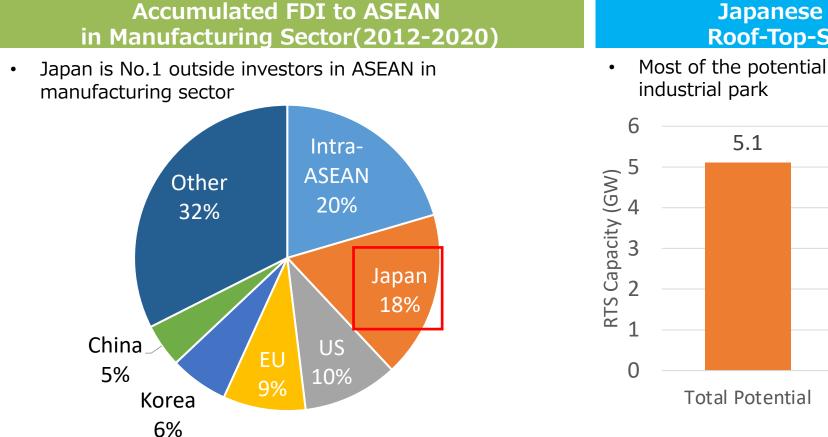
Ref. Four Main Methods to Procure Clean Electricity

 On-site Generation and Off-site PPA with investments in new renewables gets more favorable options as they <u>can more easily claim the contribution to direct CO2 reduction</u>, which will be required in some global standards such as RE100.



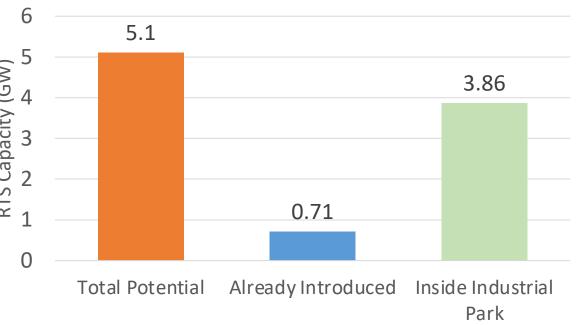
Leveraging Japanese Accumulated Assets in ASEAN

- Japanese firms made a huge investments to ASEAN particularly in manufacturing sector to develop supply chain to sell products to global market
- They now <u>have a very high motivation to get greener</u> in order to make their supply chain sustainable, which creates large rooms for collaborations (e.g. contribution to CO2 emission reduction at national level, spillover effect to local firms)



Japanese Factory's Potential of Roof-Top-Solar (RTS) in Thailand

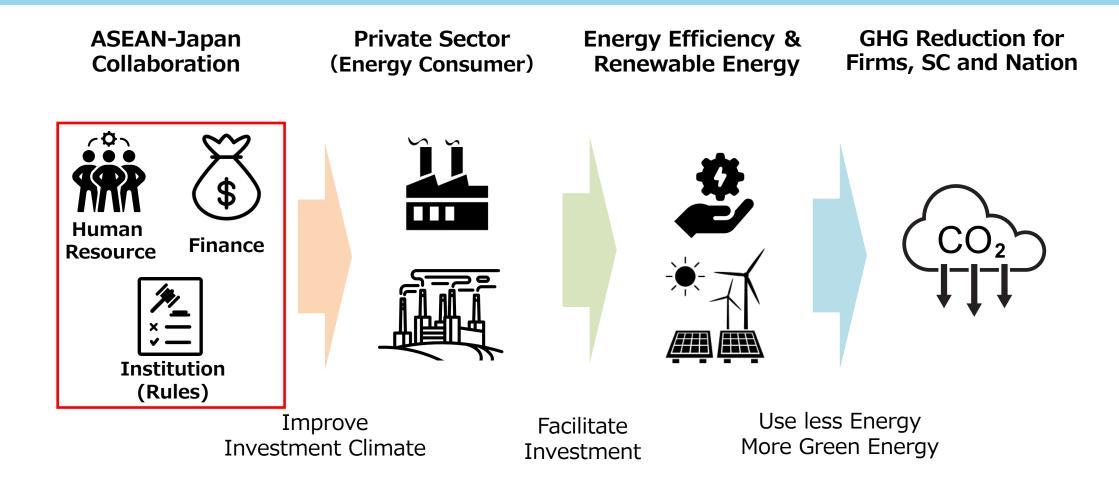
• Most of the potential is untapped and clustered in the industrial park



Reference: ASEAN Statistical Yearbook 2021, COMM Bangkok

Spurring Consumer-Driven Green Investment in ASEAN

- In collaboration with ASEAN, Japan is willing to <u>support to provide enablers such as human resources</u>, <u>finance and institution</u> to spur energy consumer driven green investments especially in energy efficiency (EE) and renewable energy (RE) sector.
- Those investments can lead to reducing GHG emissions <u>not only at company level but also at a supply</u> <u>chain (SC) and a national level</u>.



Introductions of Panelists





Dr. Theerawat Limpibunterng President of Siam DENSO Manufacturing Co.,Ltd.

Mr. Octavianus Bramantya General Manager at KADIN Net Zero Hub



Mr. Michitaka Tokeiji Founder CEO, Zeroboard Inc.



Mr. Satoru Wachi, Team Leader of Overseas Industrial Park Department, Sumitomo Corporation



Mr. Akihisa Matsuda Vice President Director, JETRO

Questions to the Panelists

Question1

Motivations for Your Actions

• Why did you decide to start what you are doing at the beginning? Has your motivation been changed now?

Question2 Challenges and Strategies

• What is the biggest challenges you are facing (or the biggest missing piece) and how do you try to overcome it?

Question3 Potential of Collaborations

• How can you accelerate your actions through collaborations with other stakeholders including today's other panelists?