

# Outcomes of the G20 Ministerial Meeting on Energy Transitions and Global Environment for Sustainable Growth

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Meeting (ESOM) for G20 EMM

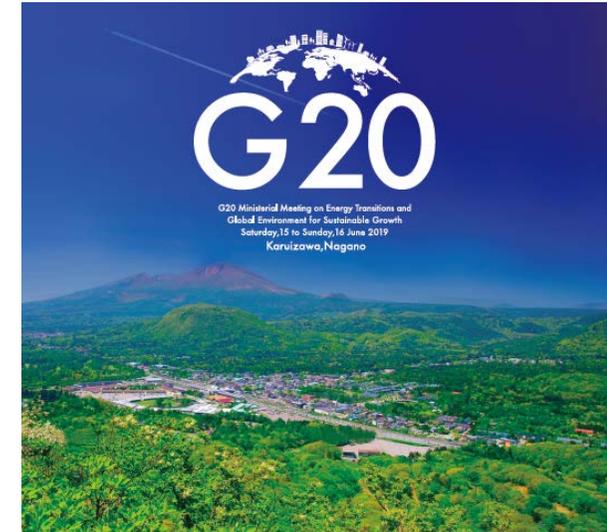
ISAP Thematic Track 11, Yokohama, July 31, 2019

# The way to Energy and Environment Ministerial Meeting and Osaka Summit

**1<sup>st</sup> ETWG & ESOM : February 12-13 in Tokyo**

**2<sup>nd</sup> ETWG & ESOM : April 18-19 in Toyama**

**3<sup>rd</sup> ETWG & ESOM : June 13-14 in Karuizawa**



The View at Karuizawa Town

**Ministerial Meeting on Energy Transitions and Global Environment  
for Sustainable Growth : June 15-16 in Karuizawa**

**Osaka Summit : June 28-29 in Osaka**

# Topics of Ministerial Meeting

## Joint session

**Accelerating virtuous circle of environmental protection and economic growth by innovation**

## Energy session

**Energy Transitions that achieve “3E+S” (Energy security, Economic efficiency, Environment and Safety)**

## Environment session

- Resource Efficiency and Marine Plastic Litter**
- Adaptation and Resilient Infrastructure including Ecosystem-based Approach**

# G20 Energy and Environment Ministerial Meeting

## Outline

Date : June 15-16, 2019

Place : Karuizawa, Nagano, Japan

Participants : G20 members and guest countries

G20 Ministerial Meeting on Energy Transitions and  
Global Environment for Sustainable Growth

June 15-16, 2019 Karuizawa, Nagano, Japan

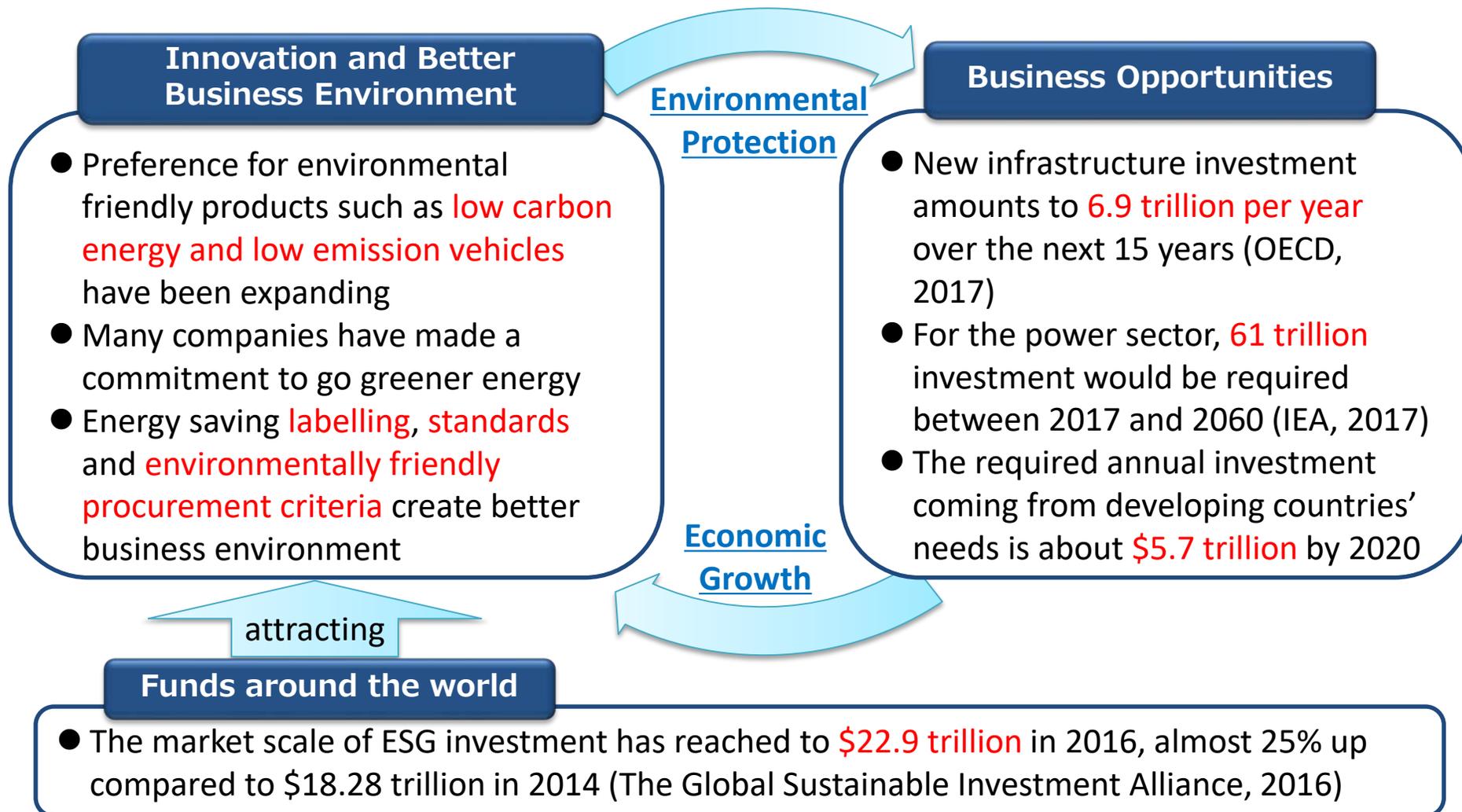


## Main Outcomes

- The meeting adopted **negotiated communique and 3 action plans** annexed to the communique (G20 Karuizawa Innovation Action Plan, G20 Implementation Framework for Actions on Marine Plastic Litter, G20 Action Agenda on Adaptation and Resilient Infrastructure)
- Regarding communique, G20 members sent out a unified message including climate change issues and agreed on the importance of a concept of **“a virtuous cycle of environment and growth”**. As for marine plastic issues, G20 members agreed on a new framework where they implement voluntary actions and continue to share actions and best practices among the G20 members.
- These key outcomes have supported for consensus building on G20 Summit in Osaka.

# Virtuous Cycle of Environment and Growth

- Countermeasures in response to environmental challenge are no longer a cost to businesses but **a source of competitiveness**



# G20 Karuizawa Innovation Action Plan

## Collect wisdom from around the world

- Seek to enhance **international cooperation and encourage research, development and deployment of innovative technologies and approaches** including air and water related technologies, behavioral science for life-style change, CCUS, Net Zero Energy Building, demand-side management, hydrogen, nature-based solutions, resilient and sustainable cities, etc.
- Welcome the G20 Japanese Presidency's initiative aimed at spurring innovation in the context of climate change through **the international conference, called Research & Development 20 for clean energy technologies ("RD20")**.

## Mobilize private finance and investment

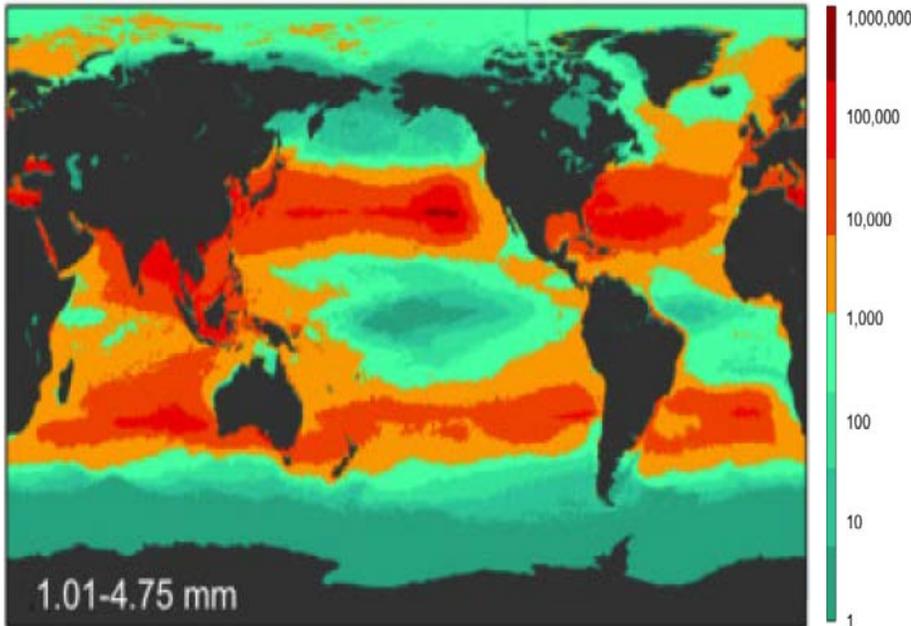
- Support efforts to **mobilize finance and to improve the market and investment environment** for various energy options, innovative technologies and quality infrastructure that enhance energy access, resilience, cleaner environment and water access.

## Improve business environments

- **Explore business matching, workshops and other international collaboration** to improve business environments and encourage business activities. (eco-labeling and environmentally friendly public procurement criteria, etc.)
- **Welcome launching analytical work to study and deliver recommendations or options on creating better business environments** focusing on public-private partnerships.

# Status of Marine Plastic Pollution

## <Global Marine Plastic Pollution>



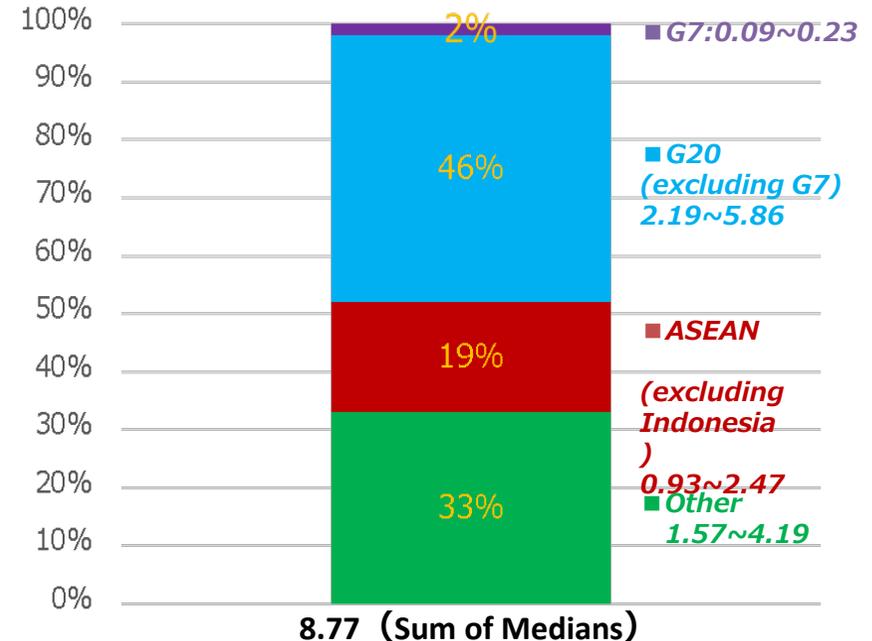
**Distribution Density of microplastics (1~4.75mm)  
(model projection)**

(Source) Erikson et al. : (2014), "Plastic Pollution in the World's Oceans: More than 5 Trillion Plastic Pieces Weighing over 250,000 Tons Afloat at Sea", PLoS One 9 (12), doi:10.1371/journal.pone.0111913

Color bar  
(Unit: pieces km<sup>-2</sup>)  
Yellow: 1,000-10,000  
Orange: 10,000-100,000  
Red: 100,000-1,000,000

## <Marine Plastic Litter by Region>

(Unit: million tons /year)



(Note) The ratio is calculated by using medians of respective estimates.

(Source) Jambeck et al. : Plastic waste inputs from land into the ocean, Science (2015)

- ◆ Estimation by a researcher based on population density, economic status, and etc.
- ◆ There is no agreed international statistics on Marine Plastic Litter, that differs from GHG. There is an urgent need for additional data, the standardization/harmonization of promoting consistency in data collection and analysis.

## Facilitating the Effective Implementation

- **Promoting a life-cycle approach** including sound waste management, marine litter cleaned up, promotion and deployment of innovative solutions, and international cooperation in order to support each countries in strengthening their capacity.
- Sharing and updating information on relevant policies, plans and measures. **Utilizing opportunities of G20 Resource Efficiency Dialogue for the first info sharing.**

Voluntary actions by the G20 members

Reinforcing efforts in line with the G20 Action Plan on Marine Litter

Information sharing and continued updating

## Collaboration among G20 members and outreach activities

- Promotion of international cooperation
- Promotion of innovative solutions
- Sharing scientific information and knowledge
- Multi-stakeholder involvement and awareness raising



# G20 Action Agenda on Adaptation and Resilient Infrastructure

## G20 Action Agenda

- Total **70 actions, initiatives and best practices** on climate change adaptation, disaster risk reduction, and quality and resilient infrastructure at multilateral, bilateral, regional, national and local levels that G20 members wish to highlight and share with other countries.

### Multilateral

- AP-PLAT (Jp)
- SATOYAMA Initiative (Jp)
- CREWS/ Early Warning Initiative (Cn)
- EPIC (USA), etc.

### Bilateral

- W. Africa Coastal Program (Fr)
- CCA Uruguay River/EbA (Ar), etc.

### National

- Climate Change Adaptation Act (Jp)
- Circulating and Ecological Economy (Jp)
- Climate Proofing Infra-Investment (EU)
- Case Studies (Au), etc.

## AP-PLAT Establishment

- AP-PLAT was **established on 16th June, 2019** during G20 Ministerial Meeting to share climate risk and adaptation information via online with the stakeholders.
- AP-PLAT also explores practical partnership aiming to enable environment for **climate change risk informed decision making and practical adaptation action.**



# Outcomes of the G20 Osaka Summit ①

## Outline

**Date : June 28-29, 2019**

**City : Osaka, Japan**

**Participants : G20 members, Guest Invitees  
(Outreach countries, International Organizations)**



## Key environmental outcomes

- G20 leaders adopted the G20 Osaka leaders' declaration, including Japan's call for a paradigm shift "where the **virtuous cycle of environment and growth** is accelerated through innovations, and with business communities playing an important role, in synergy with the public sector."
- Regarding the Paris Agreement, "Signatories to the Paris Agreement who confirmed at Buenos Aires its irreversibility and are determined to implement it, reaffirm their commitment to its full implementation," while the United States "reiterates its decision to withdraw from the Paris Agreement."
- G20 leaders shared the "**Osaka Blue Ocean Vision**", which aims to reduce additional marine plastic waste to zero by 2050, and endorsed the "**G20 Implementation Framework for Actions on Marine Plastic Litter**" that was agreed on G20 Ministerial Meeting in Karuizawa.

# Outcomes of the G20 Osaka Summit ②

## Osaka Blue Ocean Vision

- G20 leaders shared the Osaka Blue Ocean Vision **as a common global vision**
- They also called on other members of the international community to also share this vision for protecting the world's oceans



“We **aim to reduce additional pollution by marine plastic litter to zero by 2050** through a comprehensive life-cycle approach that includes reducing the discharge of mismanaged plastic litter by improved waste management and innovative solutions while recognizing the important role of plastics for society.”

## G20 Implementation Framework

- **Adopted on G20 Ministerial Meeting on Energy Transitions and Global Environment for Sustainable Growth**
  - (1) Facilitate effective implementation through encouraging **voluntary actions by the G20 members, and their information sharing and continued updating**
  - (2) Engage in collaborative actions among the G20 members and outreach activities beyond the G20 through ① Promotion of international cooperation, ② Promotion of innovative solutions, ③ Sharing scientific information and knowledge, ④ Multi-stakeholder involvement and awareness raising
- **These are also endorsed by G20 Osaka Summit**

“We also endorse the G20 Implementation Framework for Actions on Marine Plastic Litter. ”

# G20 Resource Efficiency Dialogue

- The G20 countries decided to establish a **G20 Resource Efficiency Dialogue** at the summit in Hamburg on July 7-8, 2017.
- A G20 Workshop on Resource Efficiency take place under the G20 Presidency every year (in Germany 2017, in Argentina 2018). It performs a role of the platform to share knowledge, advance options for resource efficiency and promote sustainable consumption and production patterns.
- Japan plans to utilize the opportunity of the next G20 Resource Efficiency Dialogue for the **first sharing of information on marine plastic litter** based on the G20 Implementation Framework, and **development a roadmap** for the Dialogue.

The first meeting of the G20 Resource Efficiency Dialogue  
Berlin, Germany (November, 2017)



Panel Discussions

【Key Themes】

- Resource Efficiency & SDGs
- Global Resource Consumption and Forecasting Future Resource Demand

The second meeting of the G20 Resource Efficiency Dialogue  
Puerto Iguazú, Argentina (August, 2018)



Opening Speech by Ms.  
Naomi Tokashiki, State  
Minister of the Environment

The third meeting of the G20 Resource Efficiency Dialogue is scheduled to take place in Tokyo on October 9 – 11, 2019



Expected to share information and practices based on the implementation framework