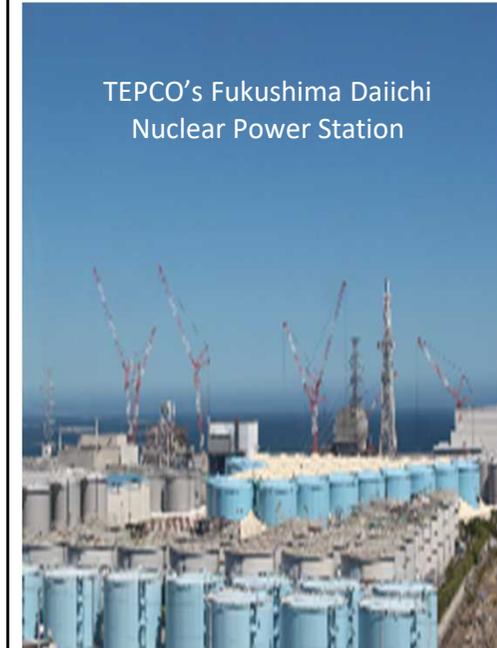




# Japan's Efforts after the Announcement of the Basic Policy on handling of the ALPS treated water at the TEPCO's FDNPS



- Based on more than six years of comprehensive study by experts and reviews by the IAEA, the Government of Japan (GOJ) published **the Basic Policy** on handling of the ALPS (Advanced Liquid Processing System) treated water at Fukushima Daiichi Nuclear Power Station (FDNPS) on 13 April 2021.
- Following the GOJ's Basic Policy, TEPCO conducted assessment of potential impact on humans and the marine environment, based on international guidelines and international practice and in cooperation with experts.
- Subject to an approval of the independent Nuclear Regulation Authority (NRA), TEPCO will conduct discharge into the sea (envisaged to take place approximately two years after the announcement of the Basic Policy).

## The GOJ has engaged in ensuring safety, transparency, and accountability of the discharge

### 1. Safety of Discharge

- (1) **Potential impact on humans and the marine environment has been assessed** (p2)
- (2) **Sea Area monitoring projects will be strengthened and enhanced** (p2)

### 2. Transparency and Accountability

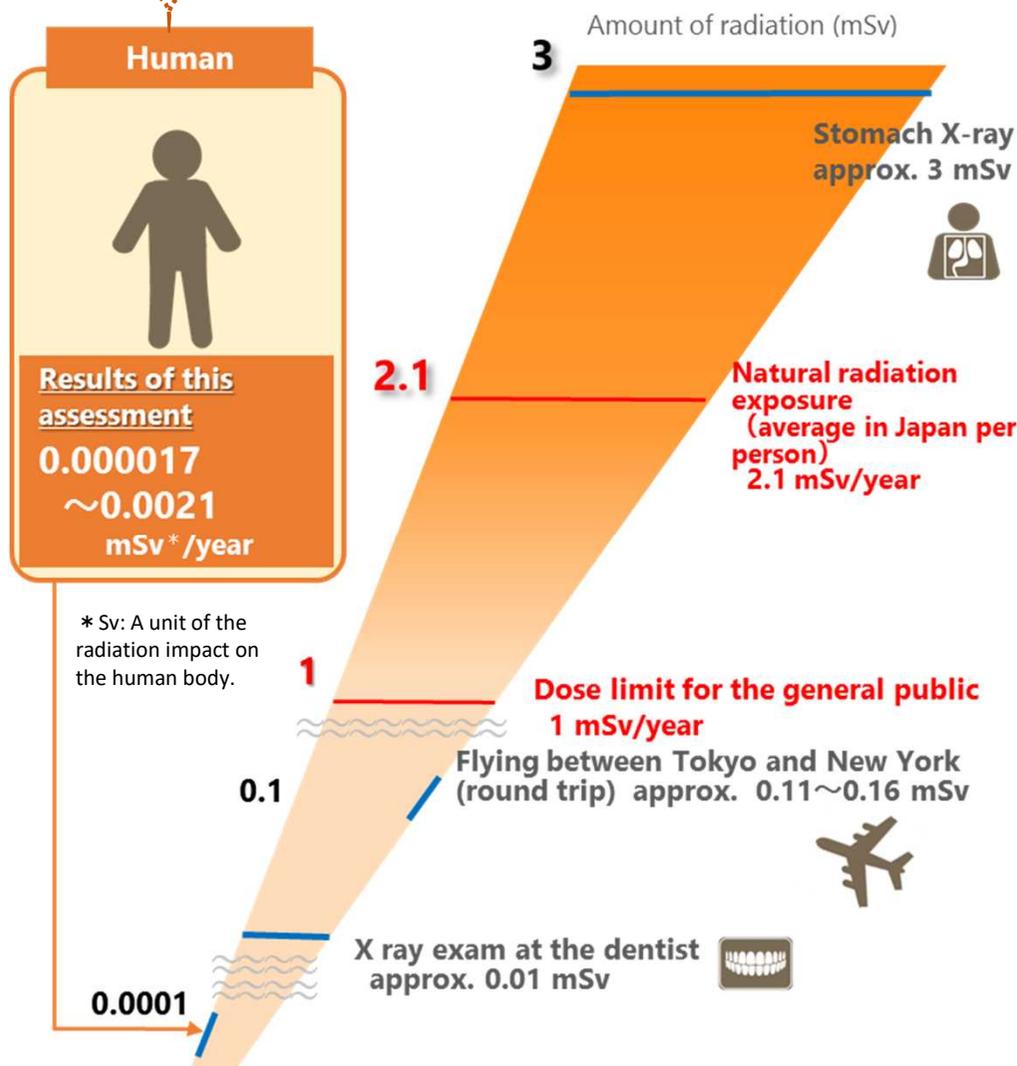
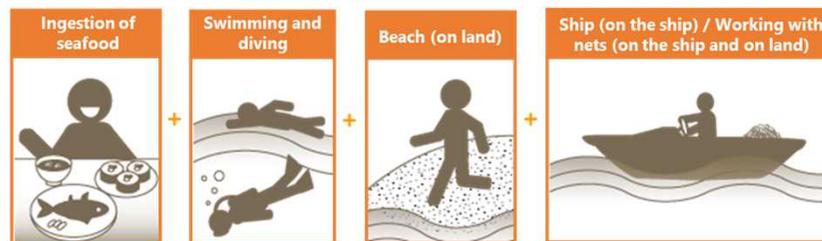
- Information based on scientific evidence has been and will be provided in a transparent manner (p4)
- Cooperation with the IAEA will be continued (e.g. review missions, IAEA Marine Monitoring) (p5)

# 1. Safety

## (1) Assessment of the potential impact on humans and the marine environment

➤ The results of the assessment\* show that **effects on human and the marine environment are minimal.**

\*It was conducted according to internationally recognized methods (as found in the IAEA Safety Standard documents and ICRP recommendations).



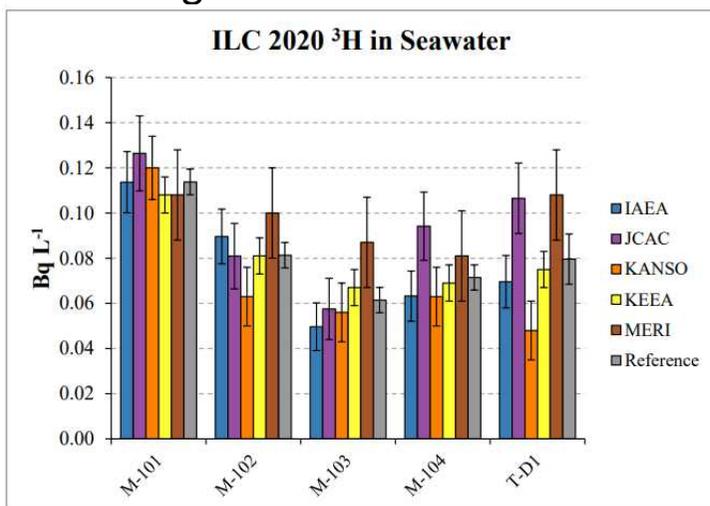
\* \* Gy: A unit of radiation impact on animals and plants

**Reference level defined by the ICRP**  
1~10 mGy per day\*  
(10 times this amount for crab)

## (2) Environmental monitoring

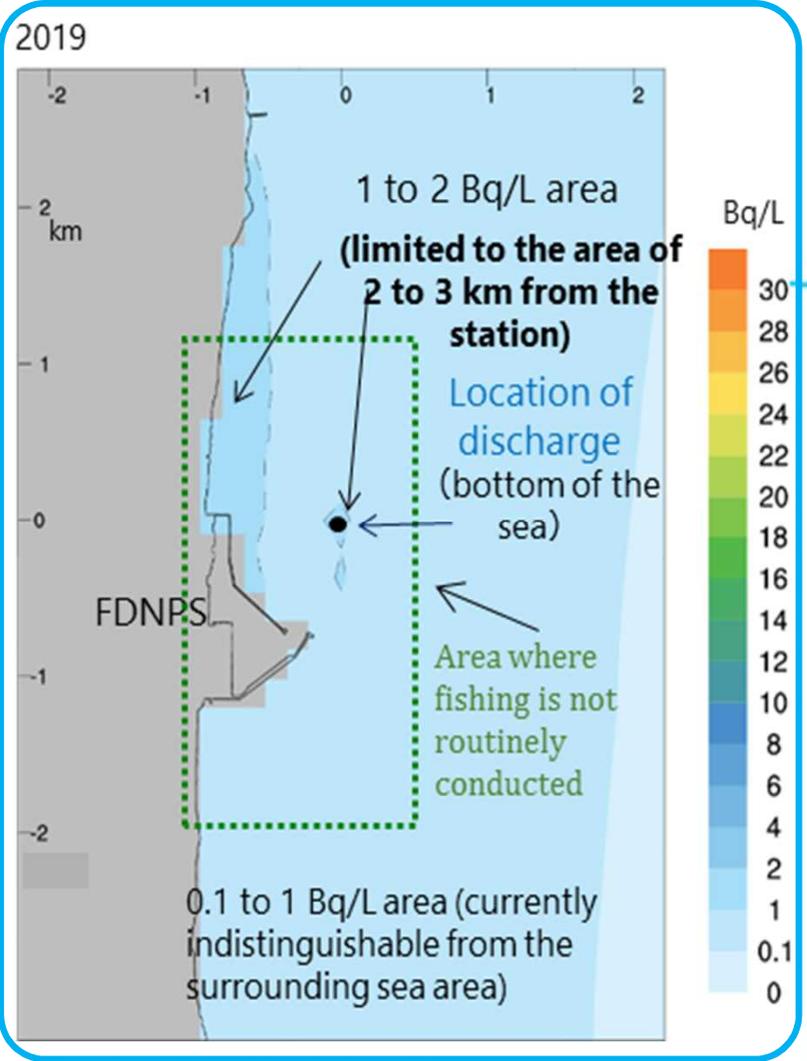
➤ The GOJ will strengthen and enhance monitoring before and after the discharge.

➤ Transparency will be ensured by engagement of third-parties including the IAEA.

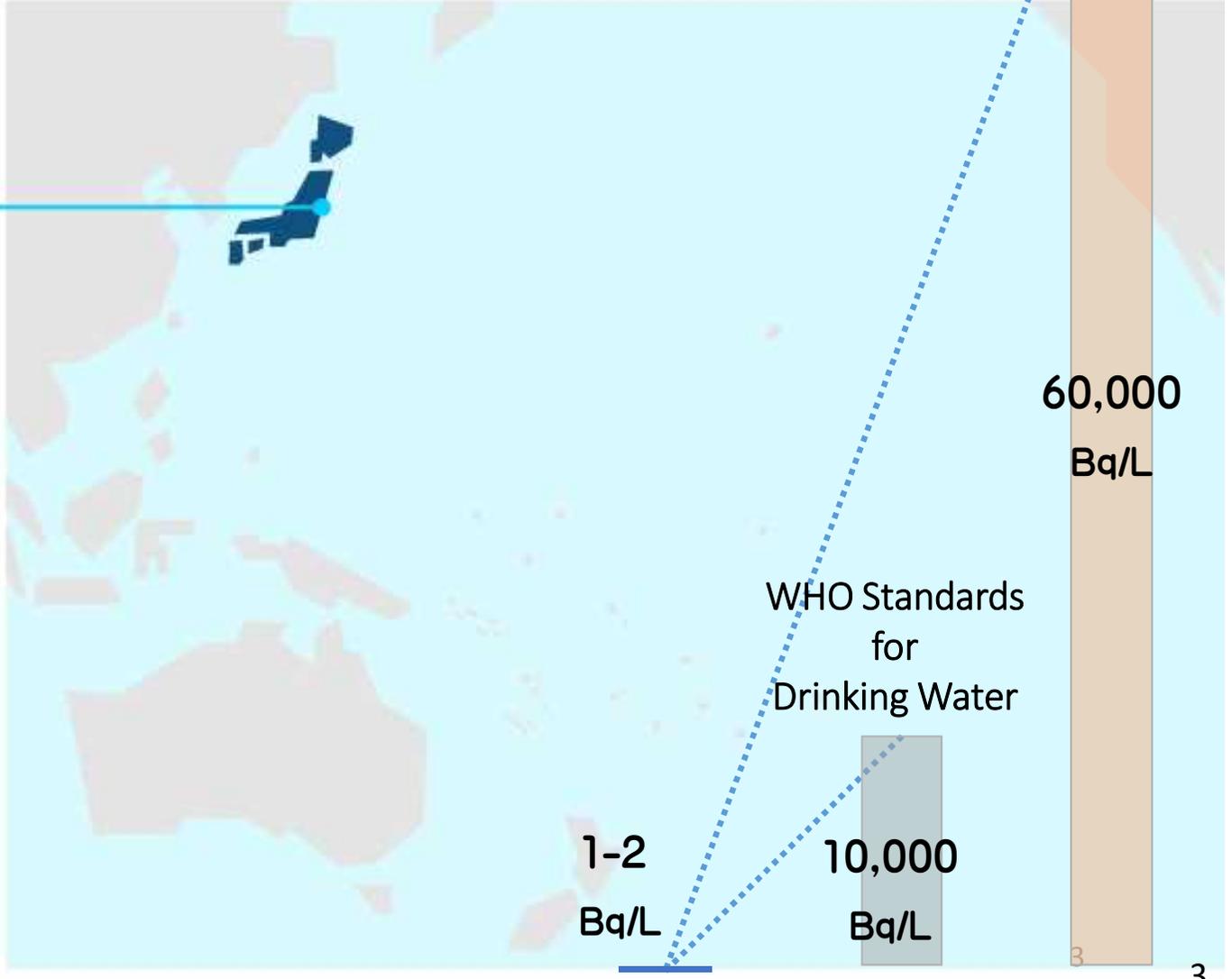


### (3) Dispersion simulation at sea

➤ The areas in which tritium concentration exceeds the background level (1 Bq/L) is **limited to within 3km from the FDNPS**. Even in these areas, the concentration is **sufficiently low compared with the WHO Guideline for drinking water quality value (10,000 Bq/L)**.



Discharged amount:  
22 trillion becquerels/year



## 2. Transparency and accountability

### (1) Providing scientific evidence and information

- The GOJ has been explaining the situation of the FDNPS to the international community:
  - **Briefing sessions** have been held for the Diplomatic Missions in Tokyo (DMT), including:
    - ✓ April 2021: 108<sup>th</sup> Briefing Session for the DMT regarding the announcement of Basic Policy
    - ✓ August 2021: 109<sup>th</sup> Briefing Session for the DMT regarding the status of Review Regarding the Handling of ALPS Treated Water (Overview) announced on August 25th by TEPCO
    - ✓ September 2021: 110<sup>th</sup> Briefing session for the DMT regarding the cooperation with the IAEA
    - ✓ November 2021: 111<sup>st</sup> Briefing Session for the DMT regarding the TEPCO's Report of Radiological Impact Assessment on humans and the marine environment of discharging ALPS treated water into the sea
  - **Monthly Reports** on the discharge record and the monitoring results are sent to all the DMT and the IAEA.
  - **Technical briefings** on the occasions of international conferences
  - **Related information** is available on the website of Ministry of Economy, Trade and Industry (METI).  
<https://www.meti.go.jp/english/earthquake/nuclear/decommissioning/index.html>



Briefing sessions for the DMT (2020)



Side event at IAEA General Conference (2021)

## 2. Transparency and accountability

### (2) Cooperation with the IAEA

#### ➤ Background:

- **After the announcement of the Basic Policy, the GOJ requested the IAEA to review** the plan and associated activities related to the discharge of ALPS treated water against International Safety Standards.
- **The IAEA agreed** to provide the assistance before, during and after the discharge of the ALPS treated water and will **review the implementation of the GOJ's Basic Policy**.
- In July 2021, the **Terms of Reference**, which includes the following points, was **signed** between the GOJ and the IAEA.
  - Review Mission to METI/TEPCO on Safety Aspects of the water discharge process
  - Review Mission to NRA on Regulatory Aspects
  - Environmental Monitoring before, during and after the discharge
  - Information Provision to the International Community by the GOJ and the IAEA
- In September 2021, a **Kick-Off Meeting between the IAEA and METI/TEPCO, Nuclear Regulation Authority and Ministry of Foreign Affairs** was held in Japan.
- In November 2021, IAEA Marine Monitoring was conducted in Japan.
- In November 2021, the **Preparatory Meeting for the 1<sup>st</sup> Review Mission to METI/TEPCO** was held.

(cf.) IAEA Reviews will be conducted with the advice of the internationally recognized experts designated by the IAEA.

#### ➤ Timeline:

- 1<sup>st</sup> Review Mission to METI/TEPCO (In the 1<sup>st</sup> quarter of 2022 (tbc))
- 1<sup>st</sup> Review Mission to NRA (In the 1<sup>st</sup> quarter of 2022 (tbc))