

A. Japan Faces an Unprecedented Challenge

(Enormous Earthquake, Tsunamis and Nuclear Accident)

1. Damage
2. Rescue Efforts and Foreign Assistance
3. Nuclear Power Stations

Great Support of the International Community

Japan deeply appreciates the assistance offered from people all over the world.

- 163 countries and regions
- 43 international organizations
- [Rescue teams]
From 27 countries, regions and international organizations

(As of March 1st)



US Navy/US Pacific Command
(Operation Tomodachi)

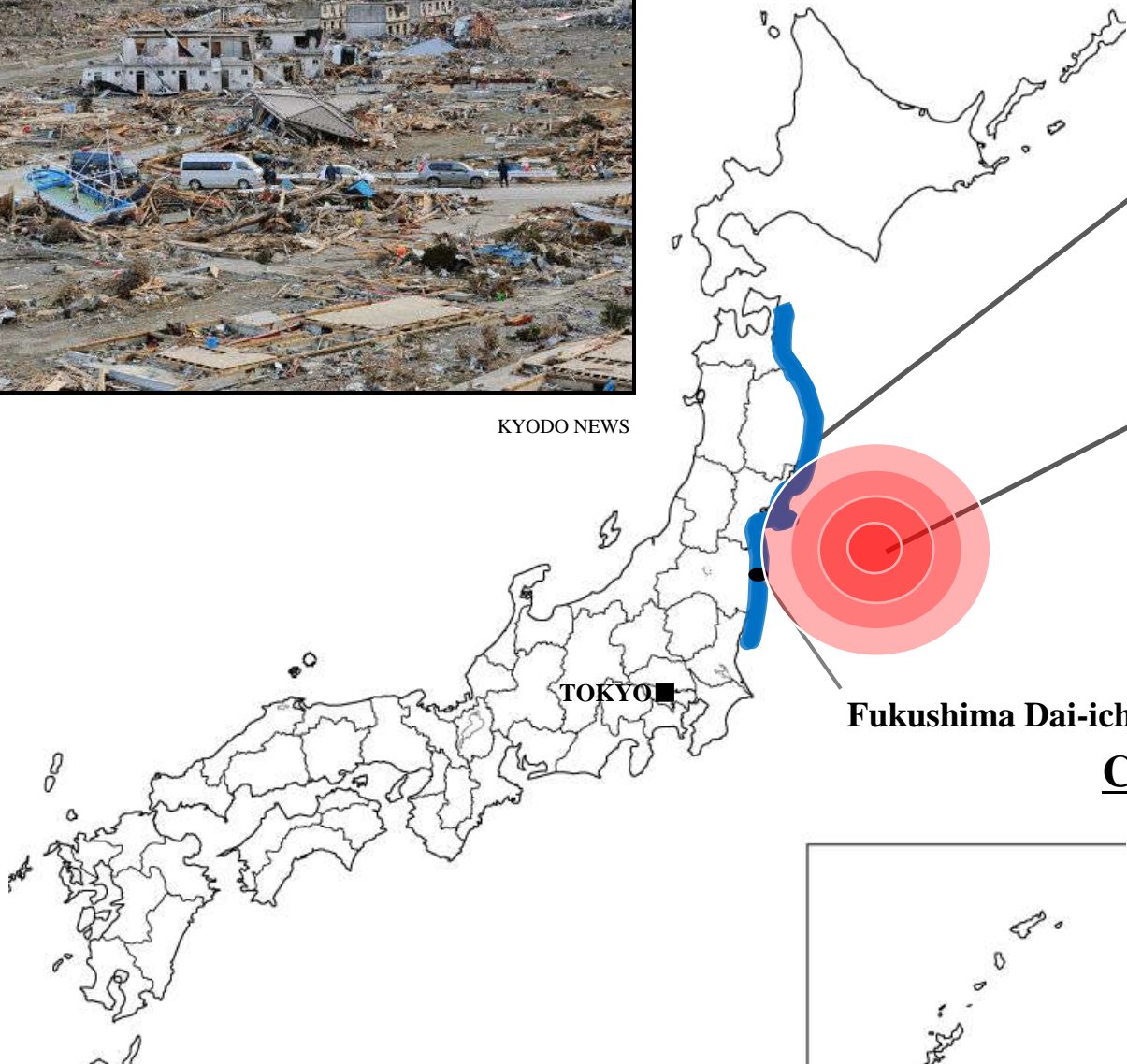


Japan Faces an Unprecedented Challenge

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KYODO NEWS



Tsunamis
14 meters or higher

Earthquakes:
M - 9.0 quake (March 11)
M - 7 class 6 times
M - 6 class 96 times
M - 5 class 588 times

(As of February 8th)

Fukushima Dai-ichi

Casualties : over 25,000

- Dead over 15,850
- Missing over 3,250
- Injured over 6,000

(As of February 24th)

2. Rescue Efforts and Foreign Assistance



KYODO NEWS



Ministry of Defense



Ministry of Defense



Ministry of Defense

3. Nuclear Power Stations

Nuclear Reactors near Epicenter of the Earthquake

4 Nuclear Power Stations with 14 Units



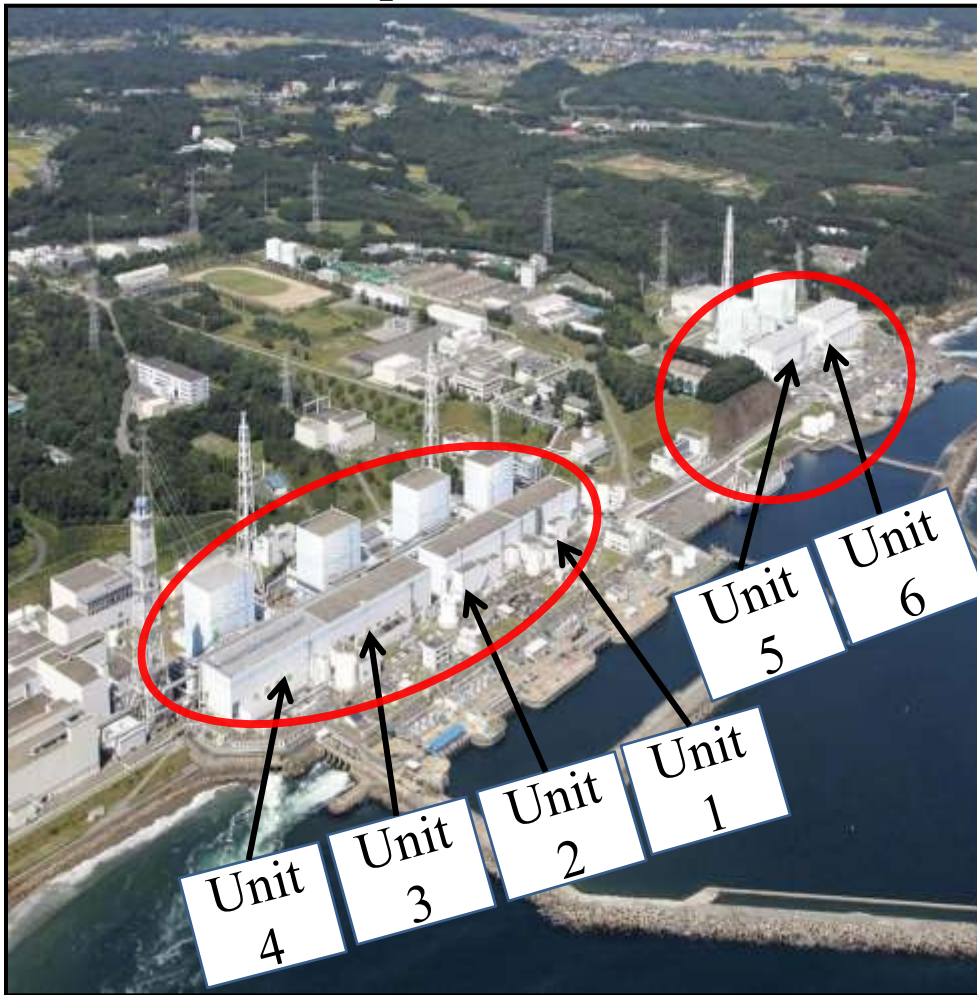
		automatic shut down	cold shut down
Onagawa			
Unit 1	524 MW, 1984-	✓	✓
Unit 2	825 MW, 1995-	✓	✓
Unit 3	825 MW, 2002-	✓	✓
Fukushima Dai-ichi			
Unit 1	460 MW, 1971-	✓	✓
Unit 2	784 MW, 1974-	✓	✓
Unit 3	784 MW, 1976-	✓	✓
Unit 4※	784 MW, 1978-	Periodical inspection	—
Unit 5	784 MW, 1978-		✓
Unit 6	1,100 MW, 1979-		✓
Fukushima Dai-ni			
Unit 1	1,100 MW, 1982-	✓	✓
Unit 2	1,100 MW, 1984-	✓	✓
Unit 3	1,100 MW, 1985-	✓	✓
Unit 4	1,100 MW, 1987-	✓	✓
Tokai Dai-ni			
Unit 1	1,100 MW, 1978-	✓	✓

※ Reactor Unit 4 had been defueled for maintenance.

3. Nuclear Power Stations

Fukushima Dai-ichi Nuclear Power Station

Before the Earthquake and Tsunamis



TEPCO

After the Earthquake and Tsunamis



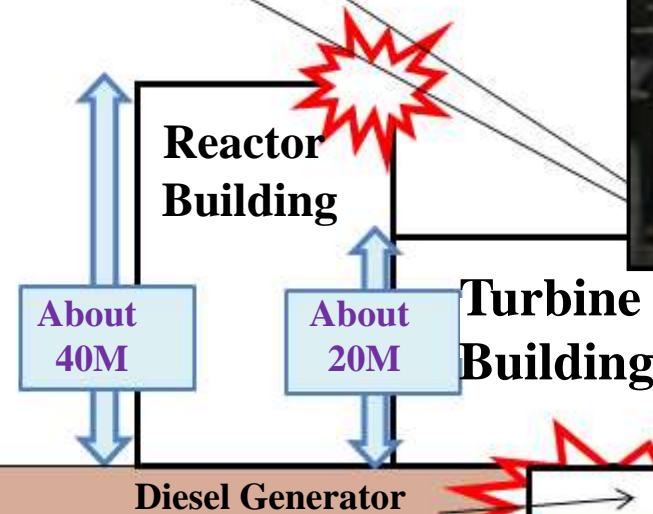
Air Photo Service Inc (Myoko, Niigata Japan)

3. Nuclear Power Stations

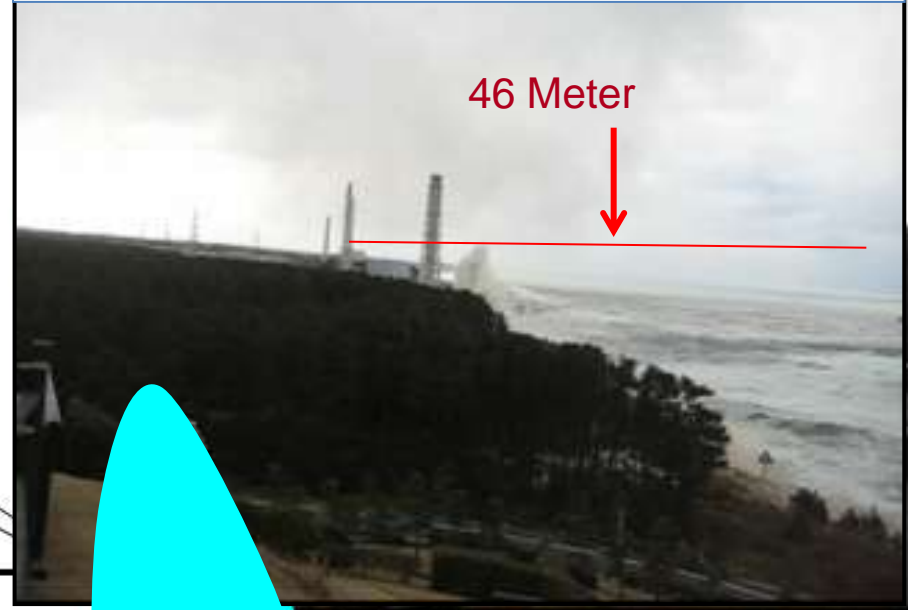
Fukushima Dai-ichi Nuclear Power Station

Cause of the Damage

① **Loss of off-site power due to the earthquake**



Huge Tsunami

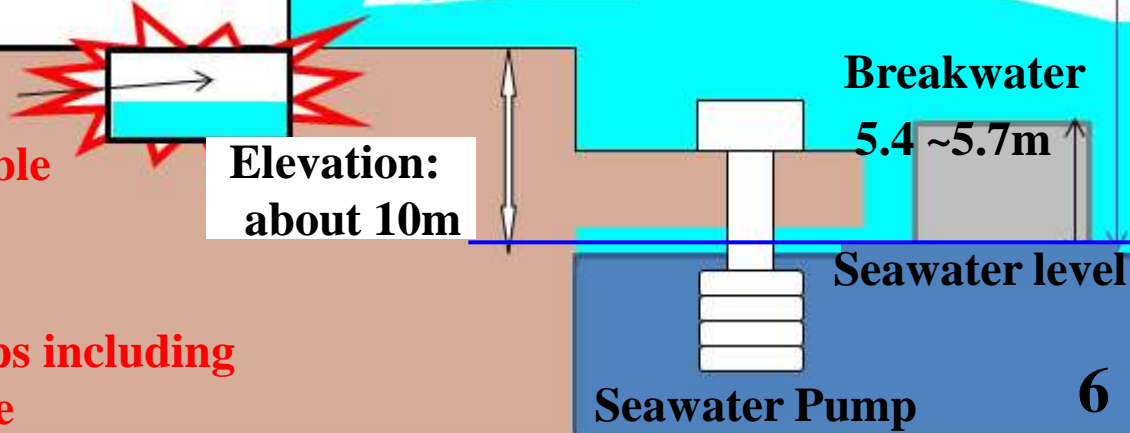


GE Hitachi Nuclear Energy

Tsunami (estimated 14m)

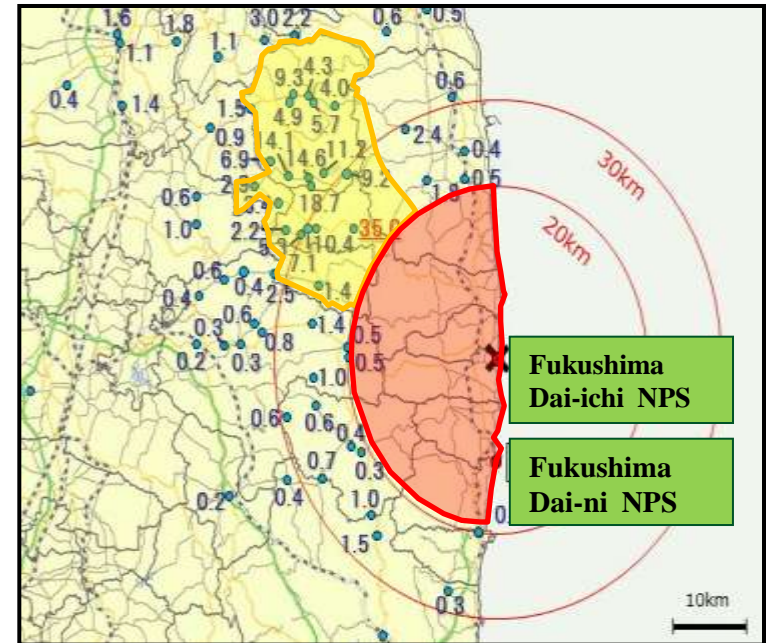
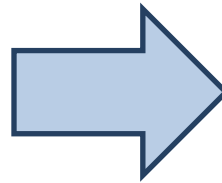
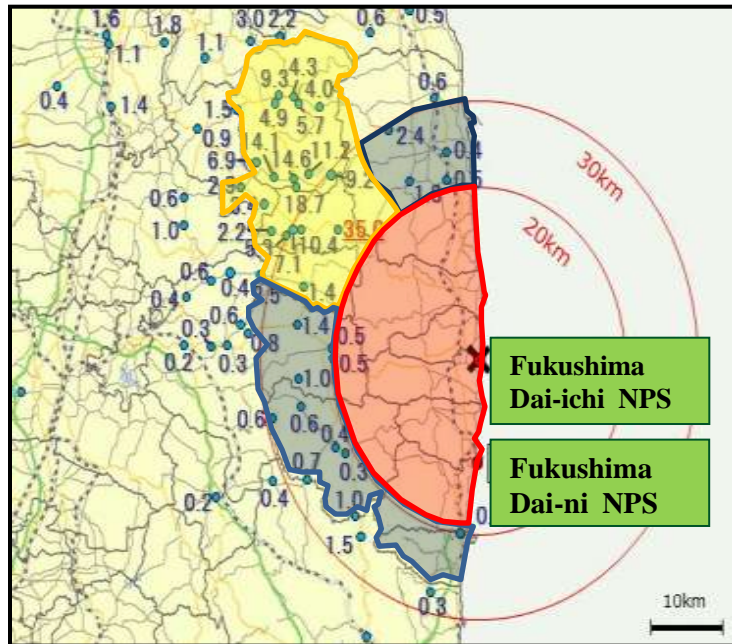
② **Diesel generator inoperable due to the tsunami**

All motor operated pumps including ECCS became inoperable



3. Nuclear Power Stations

Fukushima Dai-ichi Nuclear Power Station



Evacuation-Prepared Area  **has been lifted on Sep 30th.**

20 km radius of the plant

→ **Restricted Area** 

Area where accumulated annual dose may reach 20 mSv

→ **Deliberate Evacuation Area** 

INES Rating on the Events in Fukushima Dai-ichi NPS

The Rating of the International Nuclear and Radiological Event Scale (INES) on Fukushima Dai-ichi Nuclear Power Station (NPS), is temporarily assessed as Level 7.

