Anti-Tsunami Measures in Asia Pacific Region

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16th August 2016

Sendai Framework for Disaster Risk Reduction (2015-2030)

<Outcome>
The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries.

<Priority for Action>

1: Understanding disaster risk
2: Strengthening disaster risk governance to manage disaster risk
3: Investing in disaster risk reduction for resilience
4: Enhancing disaster preparedness for effective response, and to Build Back Better in recovery, rehabilitation and reconstruction
5: Increase the number of countries with national and local DRR strategies

<Target>
1. Reduce disaster mortality
2. Reduce the number of affected people
3. Reduce economic loss
4. Reduce damage to critical infrastructure
5. Enhance international cooperation
6. Enhance access to disaster risk information
International Frameworks (SDGs, WTAD, COP)

1st Meeting on Paris Agreement (Adoption of Rules)

APEC members share many common issues

World Geographical Distribution of Hypocer

Sources: DRR White Paper, Cabinet Office, Japan
Damages by Tsunami

Chile Earthquake and Tsunami in 1960: Tsunami affected northeast of Japan.

Tsunami by the great north-east Earthquake in Japan 2011

JICA in Disaster Risk Reduction

Recovery & reconstruction planning, restoration of buildings, rehabilitation of infrastructure, mental health care, recovery of livelihood

Response
Collecting information, Damage and needs assessment, dispatching rescue/medical teams, provision of emergency supplies, financial aid

Preparedness
Evacuation drill, disaster risk insurance, stock of emergency material, strengthening collaboration among rescue/medical teams, preparation for response, recovery and reconstruction, collecting information

Risk analysis, damage simulation, hazard/risk map, strong government complex against disasters, education on DRR, voluntary organization for DRR, early warning system, structural measures for DRR, relocation

Build Back Better
Seamless assistance
JICA’s Development Strategic Goals focusing on Disaster Risk Reduction

Cases of Cooperation for Countermeasures against Tsunami in Peru

<Grant Agreement (G/A)>
The Project for Improvement of Equipment for Disaster Risk Management
(☆Tide Gage, ◎Transmitter of EWBS)

<Loan Agreement (L/A)>
Stand-by Emergency Credit for Urgent Recovery (SECURE)

<Technical Cooperation (T/C)>
1) Project for Enhancement of Earthquake and Tsunami Disaster Mitigation Technology and “Follow-up” in Peru (★Project Site)

2) Implementation of Emergency Warning Broadcast System(EWBS) Expert

3) Training Course on Countermeasures against Tsunami
Case 1: “Project for Enhancement of Earthquake and Tsunami Disaster Mitigation Technology and Follow-up in Peru” (T/C) with CISMID-UNI

- Development of technologies and measures for earthquakes and tsunamis risk evaluation and mitigation
- Assistance of strengthening the disaster prevention education

Case 2: “The Project for Improvement of Equipment for Disaster Risk Management” (G/A) with INDECI

Process of EWBS

1. DHN
2. COEN
3. IRTP (Lima)
Case 3: “Stand-by Emergency Credit for Urgent Recovery” (SECURE, L/A) with Ministry of Economy and Finance

- Conclusion of a contract of Stand-by Emergency Credit for Urgent Recovery ($100 MM aprox.) on March, 2014.
- Assistance for enhancement of capacity for disaster risk management of the Government of Peru
- Assistance for early recovery from natural disaster of Tsunami etc.
- SECURE is also concluded with other countries: Philippines, El Salvador

JICA Tsunami cooperation project in APEC economies: Indonesia

2005 Aceh, Indonesia

Evacuation tower in aceh, Indonesia

Training course in Japan

Work Shop in BNPB

Evacuation drill and evacuation board
JICA Tsunami cooperation project in APEC economies: Philippines and Mexico

Capacity Enhancement for the government

Installation of observation equipment

Mexico

Hazard Assessment of Large Earthquakes and Tsunamis in the Mexican Pacific Coast project

JICA Tsunami cooperation project in APEC economies: Chile

Capacity Enhancement for the government for Latin America ("KIZUNA" project)

Chile

Research Project for enhancement of technology to develop tsunami-resilient community
Strengthening the Cooperation for Countermeasures against Tsunami

Collaboration among APEC economies is vital

- Strengthen the network and deepen the information sharing
- Early warning system using broadband
- Enhanced international cooperation
- Capacity development

Source: MOFA