Chapter 2 Measures for Disaster Prevention and Mitigation and National Resilience Reflecting Disasters in 2018

1-1 Emergency Inspection of Critical Infrastructure

Reflecting the impact of natural disasters in 2018 (e.g., Northern Osaka Prefecture Earthquake, the Heavy Rain Event of July 2018, Typhoon JEBI (1821), Hokkaido Eastern Iburi Earthquake) on people's lives, economic livelihoods and lives, the government held the Ministerial Meeting on Emergency Inspection of Critical Infrastructure on September 21, 2018 with an aim to discuss over continuous functionality of electricity, transportation and other critical infrastructure. At the meeting, it was agreed that the government would formulate measures to this end by the end of November (Reference: https://www.kantei.go.jp/jp/singi/jyuyouinfura/index.html). Under this project, 12 ministries and agencies carried out emergency inspections on 132 items concerning (1) critical infrastructure for securing power in the event of a disaster, and (2) critical infrastructure for protecting people's lives.

Example of an Emergency Inspection Item

Electricity Emergency Inspection of	of Electricity Infrastructure <u>国土強制化</u>		
Overview			
 Overview: Learning from the major blackout affecting the entire Hokkaido Prefecture caused by the 2018 Hokkaido Eastern Iburi Earthquake, overall inspection of electricity infrastructure will be conducted across Japan, bearing in mind the inspection work for the major blackout conducted by the third party committee established under the Organization for Cross-regional Coordination of Transmission Operators (OCCTO). Scope: Overall inspection of electricity infrastructure will be conducted across Japan, bearing in mind the aforementioned inspection work. Ministry/agency in charge: Ministry of Economy, Trade and Industry (METI) 			
Issues Identified Following the Recent Disaster]		
A massive blackout occurred during the Hokkaido Eastern Iburi Earthquake in September 2018 due to multiple factors, including the shutdown of a major thermal power plant, electric line failures, and disruptions to renewable energy power generation (hydropower and wind power).	Che status of the electricity system (power transmission network) from the earthquake to the major blackout in the Hokkaido areas		

Source: Prime Minister's Office of Japan website (Ministerial Meeting on Emergency Inspection of Critical Infrastructure)

(Reference: https://www.kantei.go.jp/jp/singi/jyuyouinfura/index.html)

At the second Ministerial Meeting on November 27, 2018, the government reviewed inspection results and formulated measures, which were grouped into the following two categories: (1) the maintenance of the functionality of critical infrastructure for disaster prevention (those that protect people's lives and property from floods, sediment disasters and other disasters and those related to rescue and relief activities and medical activities); and (2) the maintenance of the functionality of critical infrastructure to support people's economic livelihoods and lives (e.g., electricity, food supply and transportation infrastructure).

1-2 Approval of the Three-Year Emergency Response Plan for Disaster Prevention, Disaster Mitigation, and Building National Resilience

At the third Ministerial Meeting (jointly held with the National Resilience Promotion Office) on December 14, 2018, the Prime Minister said, "We will create a country that possesses strength and resilience, not giving in to disasters. We must continue on this path of national resilience as Japan's grand plan for the long-term future. In particular, in recent years, since disasters have grown in intensity, disaster prevention, disaster mitigation, and building national resilience for the protection of the lives and property of the people have become important and urgent issues, and we must continue to advance these efforts swiftly." With this view in mind, the members of the meeting formulated measures for critical infrastructure based on the results of emergency inspections, as well as those for concrete block walls and farm ponds reflecting the results of past inspections. At the meeting, the Cabinet approved the Three-Year Emergency Response Plan for Disaster Prevention, Disaster Mitigation, and Building National Resilience, which described urgent measures that required immediate action, such as the below.

Reference: https://www.kantei.go.jp/jp/singi/jyuyouinfura/index.html.

Example of Emergency Inspection Results and Response Measures





Reference: https://www.kantei.go.jp/jp/singi/jyuyouinfura/index.html

1-3 Implementation of the Three-Year Emergency Response Plan for Disaster Prevention, Disaster Mitigation, and Building National Resilience

The Three-Year Emergency Response Plan for Disaster Prevention, Disaster Mitigation, and Building National Resilience describes the goals, contents, expenditures and other information of 160 tangible and intangible measures to be urgently implemented over the three years from FY2018 to FY2020 from the perspectives of (1) the maintenance of the functionality of critical infrastructure for disaster prevention and (2) the maintenance of the functionality of critical infrastructure to support people's economic livelihoods and lives.

These emergency measures will be carried out with a fund of approximately 7 trillion yen utilizing the fiscal investment and loan program and contributions from the private sector with a view to achieving completion or significant advancement by the end of the period. In order to ensure the functionality of critical infrastructure, which protects people's lives and property from natural disasters and is essential for people's lives and economic livelihoods, the national government will promote these measures in cooperation with various entities, including local governments, private hospitals, airport terminal companies, communications companies, and railway companies.

Among these measures, expenditures for those to be commenced in the first fiscal year were covered by the FY2018 secondary supplementary budget. Additional funds will be allocated from the FY2019 and FY2020 budgets for temporary and special measures.

The government will conduct periodical follow-up assessments on the progress of these emergency measures to ensure steadily progress and attainment of the defined goals in three years.

Overview of the Three-Year Emergency Response Plan for Disaster Prevention, Disaster Mitigation, and Building National Resilience

1. Basic Principles		
 Based on the Results of the Emergency Inspection of Critic emergency measures were for the maintenance of the fu the maintenance of the fu These emergency measures ar National Resilience Basic Plan. 	e Emergency Inspection of Critical Infrastructure and Response Measures (report from th al Infrastructure on November 27, 2018) and the results of past inspections on concrete blo mulated for the following two purposes: unctionality of critical infrastructure for disaster prevention; and unctionality of critical infrastructure to support people's economic livelihoods and lives. re tangible and intangible measures falling under 20 priority and other programs included i They will be promoted intensively over the next three years.	e Ministerial Meeting on ock walls and farm ponds, in the 45 programs of the
2. Categories of Measure	es and Estimated Budgets	
OEmergency measures: 160 it OImplemented with a fund of	ems approximately 7 trillion yen (also utilizing the fiscal investment and loan program) ^{*1, *2}	
I. Maintenance of the functionality of critical infrastructure for disaster prevention: Approx. 3.5 trillion yen (*1) Includes 0.6 trillion yen		
 (1) Prevention and minimizatio trillion yen (2) Securing disaster response (3) Securing information neces 	in of damage of major floods, sediment disasters, earthquakes, tsunamis, and other disasters: Approx. 2.8 capabilities, including those for rescue and relief activities and medical activities: Approx. 0.5 trillion yen sary for evacuation: Approx. 0.2 trillion yen	from the fiscal investment and loan program and 0.4 trillion yen of contributions from the private sector.
II. Maintenance of the func Approx. 3.5 trillion yen	tionality of critical infrastructure to support people's economic livelihoods and lives:	FY2018 1st supplementary budget.
 Securing electricity and ene Securing food supply, lifelin Securing land, sea, and air t Securing information, comr 	rgy supply: Approx. 0.3 trillion yen e utilities, supply chains, etc.: Approx. 1.1 trillion yen ransportation networks: Approx. 2 trillion yen nunications, and information services necessary in daily life: Approx. 0.02 trillion yen	(*2) Totals may not add up due to rounding.
3. Period and Goals		
 Period: Three years from FY2018 Goals: Complete or significantly a and building national resilience 	to FY2020 dvance emergency measures that require immediate action from the viewpoint of promoting disaster prev	ention and disaster mitigation

Source: Prime Minister's Office of Japan website (Ministerial Meeting on Emergency Inspection of Critical Infrastructure) Reference: https://www.kantei.go.jp/jp/singi/jyuyouinfura/index.html