



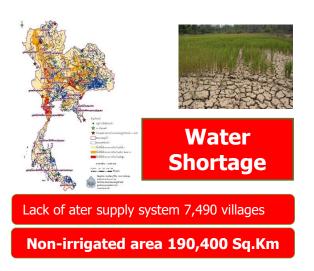
Update on national capacity on water resources management

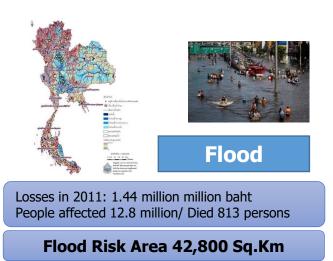


Mr. Atthapong Chantanumate Expert on Water Analysis



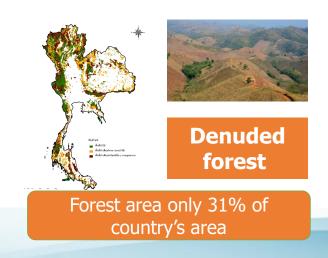
Problems of the National Water Management











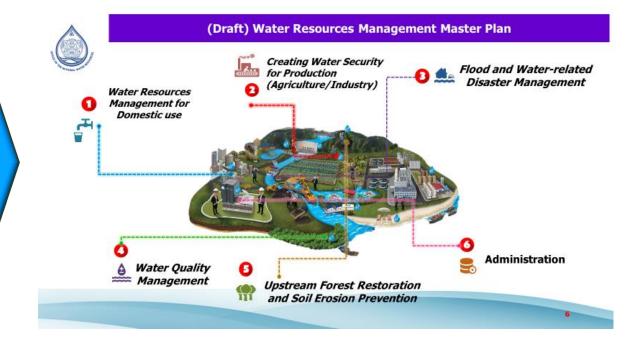


No coordination among water-related agencies



Policies of the National Water Management

Cabinet Resolution
on 7 May 2015
assigned the National Water
Resources Committee to implement
the Strategic Plan on Water
Resources Management
(2015 - 2026)



National Council for Peace and Order (NCPO) establish

Office of the National Water Resources
On 25 October 2017

Roles and responsibilities

- 1. To study and analyze water situation for making policy recommendations, providing water resources management master plan, and coordinating to implement policy into practice.
- 2. To collect national budget on integrated water resources management and make recommendations on water resources management planning to the National Water Resources Committee (NWRC).
- 3. To monitor water resources management based on designated policy, master plan, and measures.
- 4. To integrate both national and international water information and evaluate water needs and water supply for different sectors including present and future impact.
- 5. To serve as secretary to the NWRC
- 6. To establish and operate the Special National Command Center for Water Crisis.



Mechanism to Manage Water of the Nation

Stakeholders

20-Year National Strategy & Sustainable Development

Water Resources Committee

National

&

Office of the National Water Resources 20-Year Water Resources Management Master Plan Innovation & Big Data For Water Management

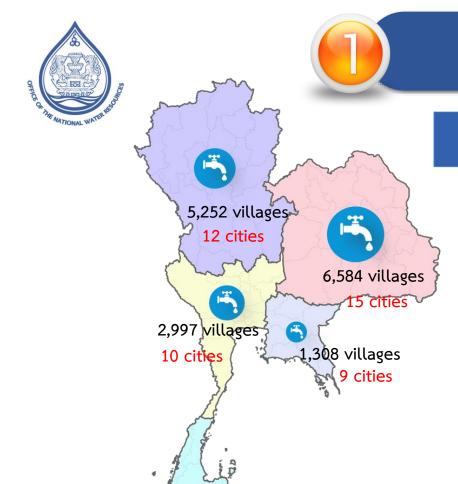
Water Resources Act 2018

4 - Pillar Mechanism to Manage Water



20-Year Water Resources Management Master Plan





3,359 villages

Water Resources Management for Domestic Use

Targets



Standard of water supply at villages is equal to standard of drinking water within 2030 (SDGs)



Support the expansion of major cities, tourist attraction cities, and economic area in duration of 20 years



Water saving / Maintain rate of water use per capita and reduce it in the future (2027)













Program on Efficiency Improvement of 20,034 water supplies
Program on Urban Water Supply Development of 59 cities (2022)

543 villages 2 cities

รงเทพฯ และปริมณฑล ในที่บริเวณชายฝั่งทะเลตะวันออก (ESB) ที่ศักยภาพการชลประทาน เที่เสี่ยงแล้งปานกลาง พื้นที่เสี่ยงแล้งสูง

Creating Water Security for Production (Agriculture/Industry)

Targets



Develop new water resources and delivery system to the highest potential



Water provision for rainfed agriculture to enhance potential of small projects and to reduce risk of crop damage at 50%



Increase productivity and improve water use structure in collaboration with the National Strategy No.2 (Competitiveness Enhancement) and No.4 (Opportunity and Social Equity Creation)



















Flood and Water-related Disaster Management

Targets



Drainage / Water Channel Obstruction Improvement

- 565 main rivers
- 154 Tributaries

5,500 Km.

562 Water Channel Obstruction



Provide river basin layout and enforce it in city/province planning



Flood protection of 764 cities by sequence of damage or economic and social impact



Flood mitigation of crisis area, big watershed, sub-basin / minimize risk and severity at least 60%



Increase adaptation and evacuation efficiency during flood period

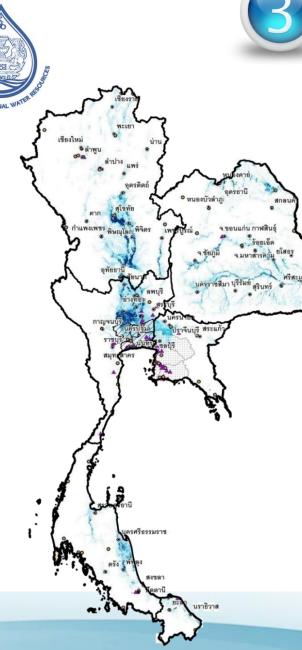












Water Quality Management

Targets

สัญลักษณ์

ระดับความสูง (เมตร)

ข้อมูลโดย: กรมควบคุมมลพิษ, กรมการปกครอง จัดทำโดย ส่วนสารสนเทศภูมิศาสตร์,



Develop and enhance efficiency of collecting system and central wastewater treatment plant to control wastewater drainage to the environment



Control and reduce wastewater, both quantity and dirtiness, at source



Restore rivers, canals, and natural water bodies throughout the country



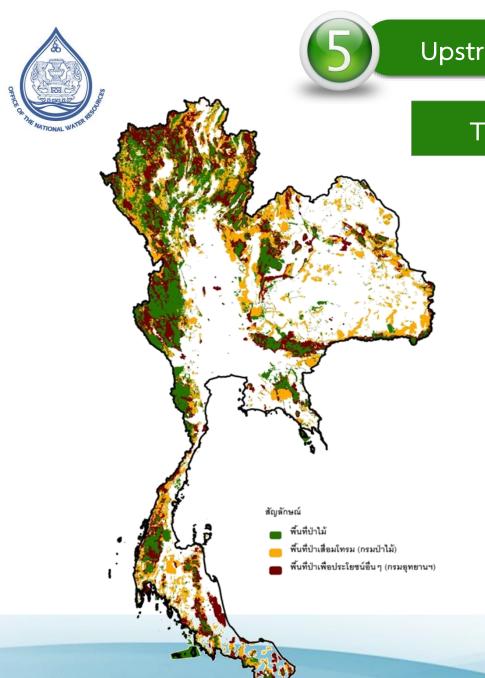












Upstream Forest Restoration and Soil Erosion Prevention

Targets >>40%



Upstream forest was restored and slow down flash flood at upstream area



Prevent soil erosion of steep farming to retard water and decrease sediment in water resources









Administration



strategy



Provide improve law, institution in relation to water management





Targets

- 28 water-related laws
- Establish the National Water Resources Committee / River Basin Committee in conform to the Water Resources Act 2018





Make water management plan





Strategic plan / Master plan / Action plan / Crisis plan





Monitoring and evaluation





Impact evaluation





Develop database and Decision Supporting System





- System that links to Big Data
- Provide additional database
- Efficiency enhancement and water administration





R&D and initiate water management approaches





Research that is used in water management





Public relations, participatory water management, and capacity development



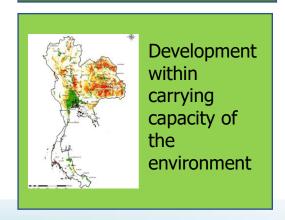
- Capacity development of target groups
- Target groups that receive PR media about water management



20-Year National Strategy & Sustainable Development

20-Year National
Strategy &
Sustainable
Development

SEA (Strategic Environmental Assessment)



- Apply SEA for basin development plan
- Balance use of national natural resources
- Mitigate impact to transboundary water



Challenges and way forward in next 10 years



POLICIES

- MRC Regulation
- Transboundary coordination

Climate Change

- R&D on water management and adaptation
- Data sharing network with MRC member countries

Human Resources

- Capacity building
- Access to updated water information

Environmental Impact & Economy

Secure environment & economy among MRC member countries

