

Updates of Water Environment Governance in Viet Nam

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- 1. Facts and statistics of water quality**
- 2. Legislative framework for water environmental governance**
- 3. Future targets/plans, issues and challenges of water environment governance**



Facts and statistics of water quality

Table No 1: Water quality to be calculated using WQI according to Decision 1460/QĐ-TCMT, 2019 by Viet Nam Environment Administration are shown in values from 0-100

WQI value	Explanation	Color code
91 - 100	Good for drinking water supply	
76 - 90	Good for drinking water supply with special treatment options	
51 - 75	Good for agricultural activities	
26 - 50	Good for waterway transportation	
10 - 25	Heavily polluted water needs treatment before usage	
<10	Toxic water needs treatment	

Facts and statistics of water quality

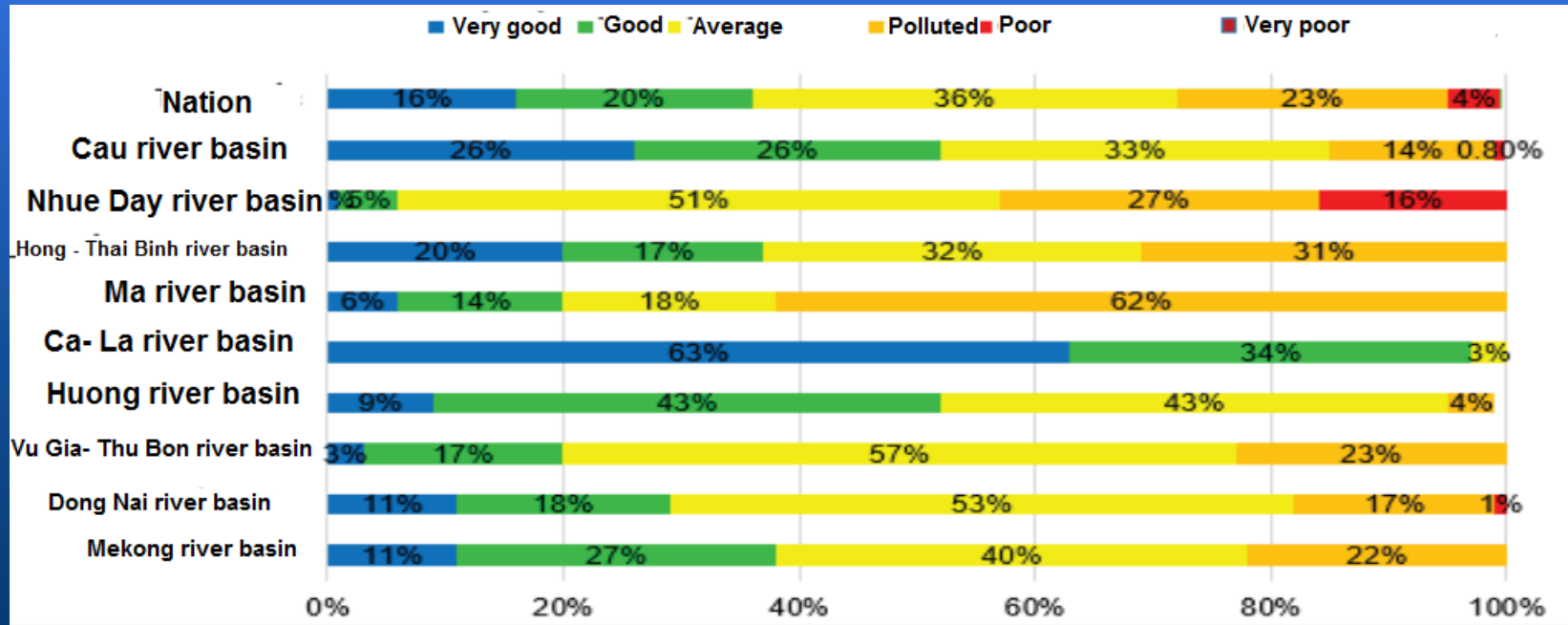
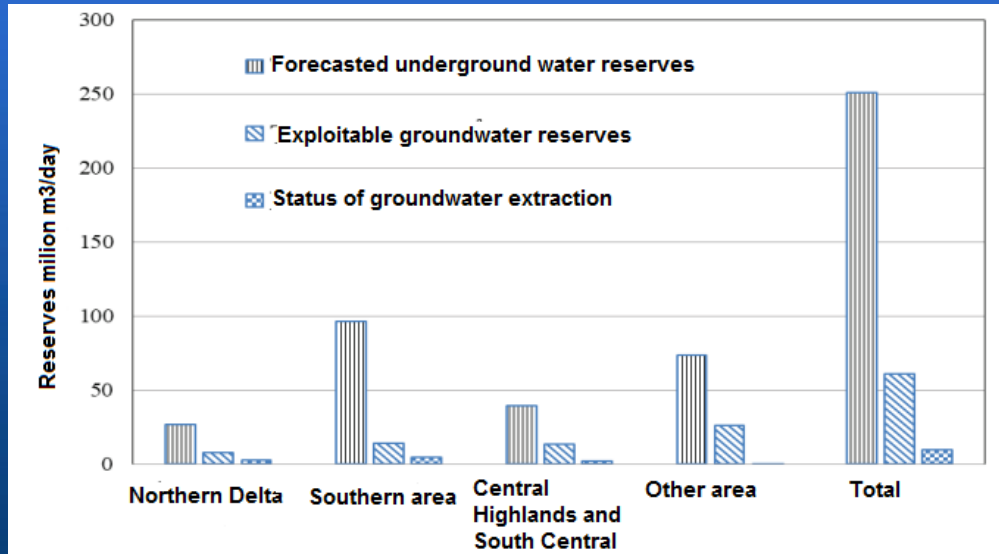


Chart No 1: WQI values for 10 main river basins in Viet Nam from 2016-2020

Facts and statistics of water quality



- Ground water quality is quite good, within the threshold of the Standard 09-MT:2015/BTNMT.
- Metal and ammonium pollution in groundwater occurs mostly in high mining areas in the North, Central and South.

Current status of groundwater resources in Vietnam

Facts and statistics of domestic wastewater management

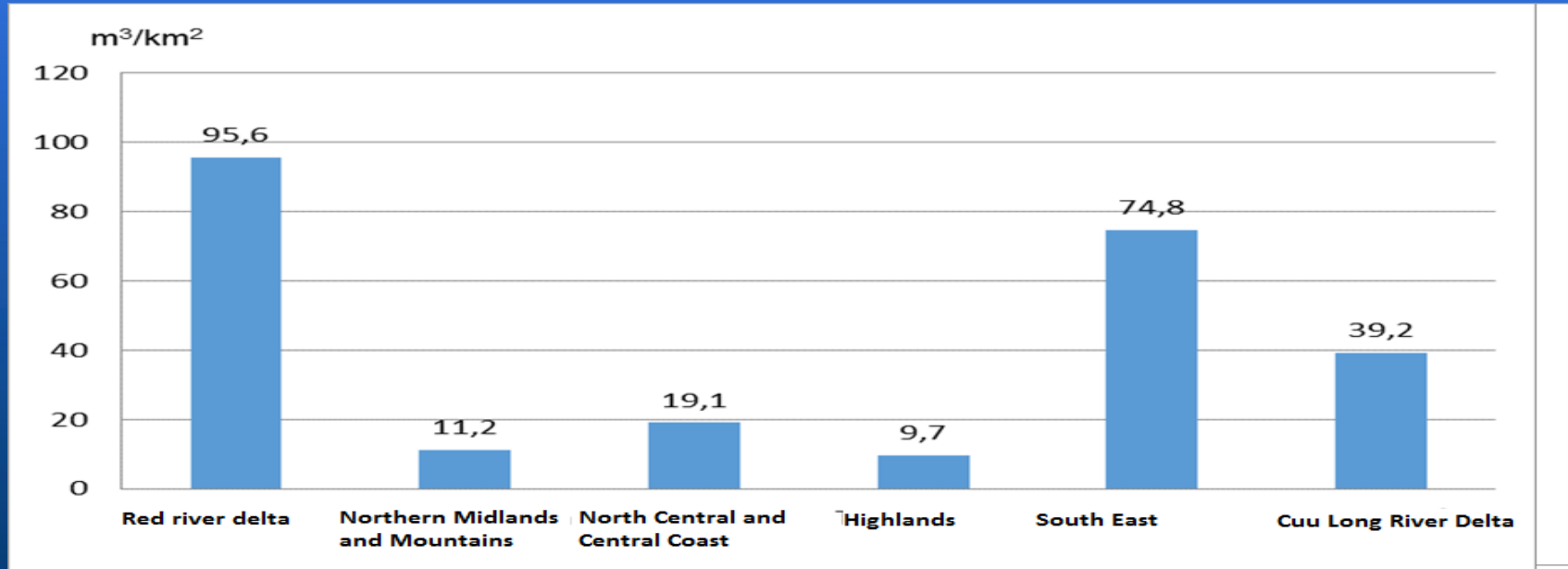


Chart No 2: Generation of domestic waste water in 6 regions in Viet Nam

Facts and statistics of domestic wastewater management

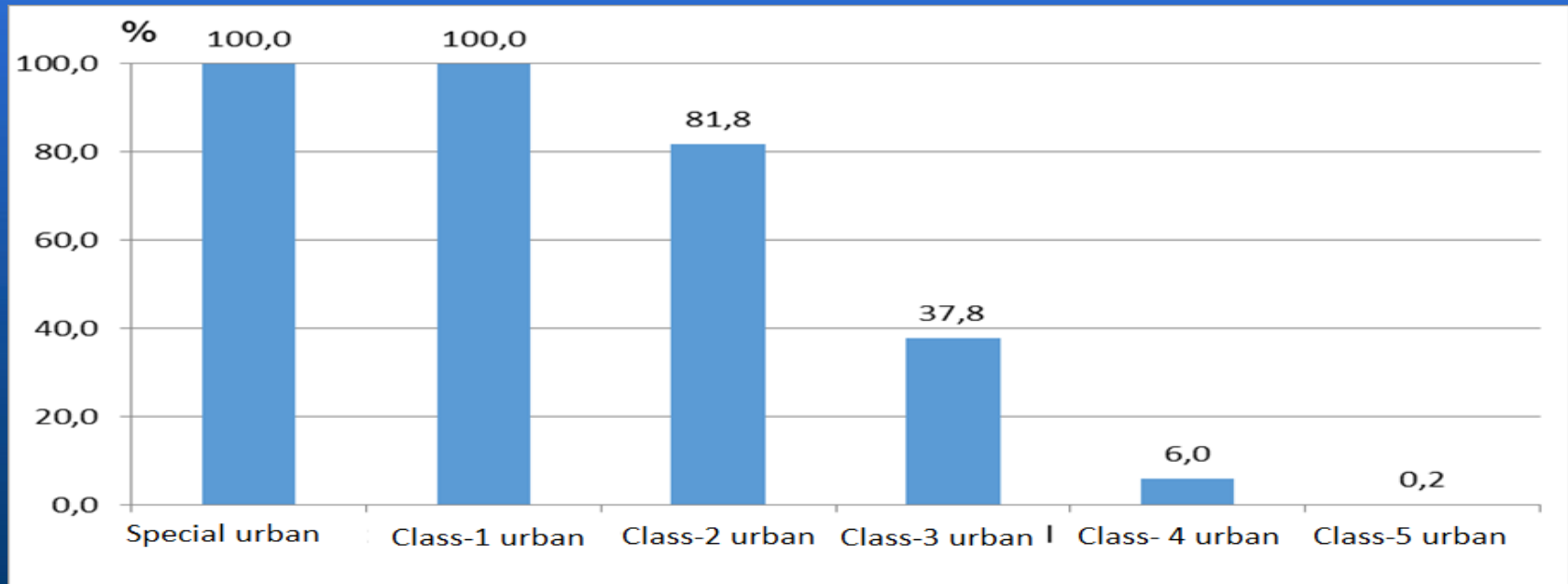


Chart No 3: Ratio of standard waste water treatment plant in 6 types of cities in Viet Nam



Facts and statistics of domestic wastewater management

Region	Province	Volume (m ³ /day)
Red River Delta	Ha Noi	75,000
	Bac Giang	51,000
	Ninh Binh	13,000
	Bac Ninh	65,000
Northern Central and Coastal Central	Nghe An	26,578
	Thanh Hoa	2,800
	Khanh Hoa	10,000
South Eastern Delta	Binh Duong	136,700
	Ho Chi Minh city	143,701
	Ba Ria-Vung Tau	56,880
Mekong Delta	Dong Thap	12,477

Table No 2: Generation of industrial waste water in several provinces in Viet Nam

Facts and statistics of domestic wastewater management

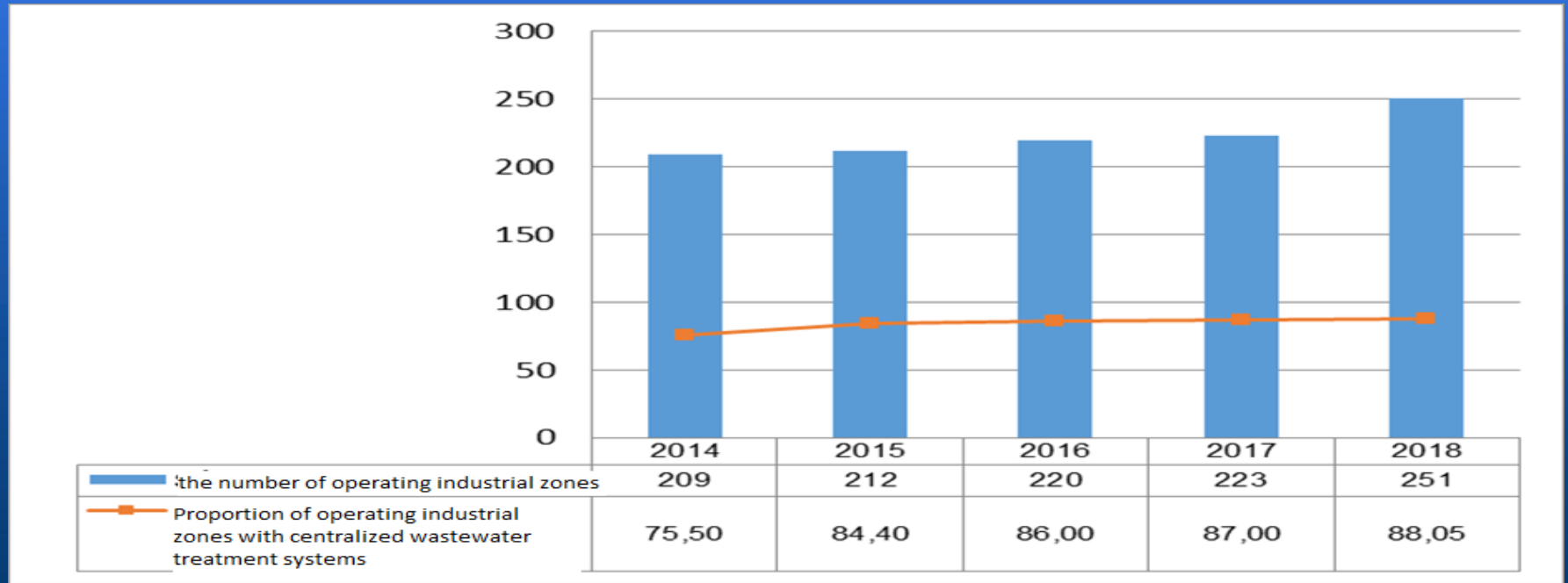


Chart No 4: Percentage of waste water treatment plants in industrial parks in Viet Nam



Legislative framework for water environmental governance

LAW ON ENV. PROTECTION 2020
15 chapters, 171 articles

1. Water quality management and control of discharge to the water environment

2. Management of wastewater

3. Supportive tools to management of water environment

LAW ON WATER RESOURCES 2012

1. Prevention of water pollution, degradation and shortage

2. Monitoring of water resources

3. Water resources protection corridor



Legislative framework for water environmental governance

01 QCVN for surface water quality; 12 QCVN for waste water;

- QCVN 14:2008/BTNMT for domestic waste water
- QCVN 25:2010/BTNMT for waste water from landfill
- QCVN 28:2010/BTNMT for hospital and medical waste water
- QCVN 29:2010/BTNMT for waste water from oil and gasoline facility
- QCVN 40:2011/BTNMT for industrial waste water
- QCVN 01-MT:2015/BTNMT for waste water from pretreatment of natural rubber
- QCVN 11-MT:2015/BTNMT for waste water from seafood processing

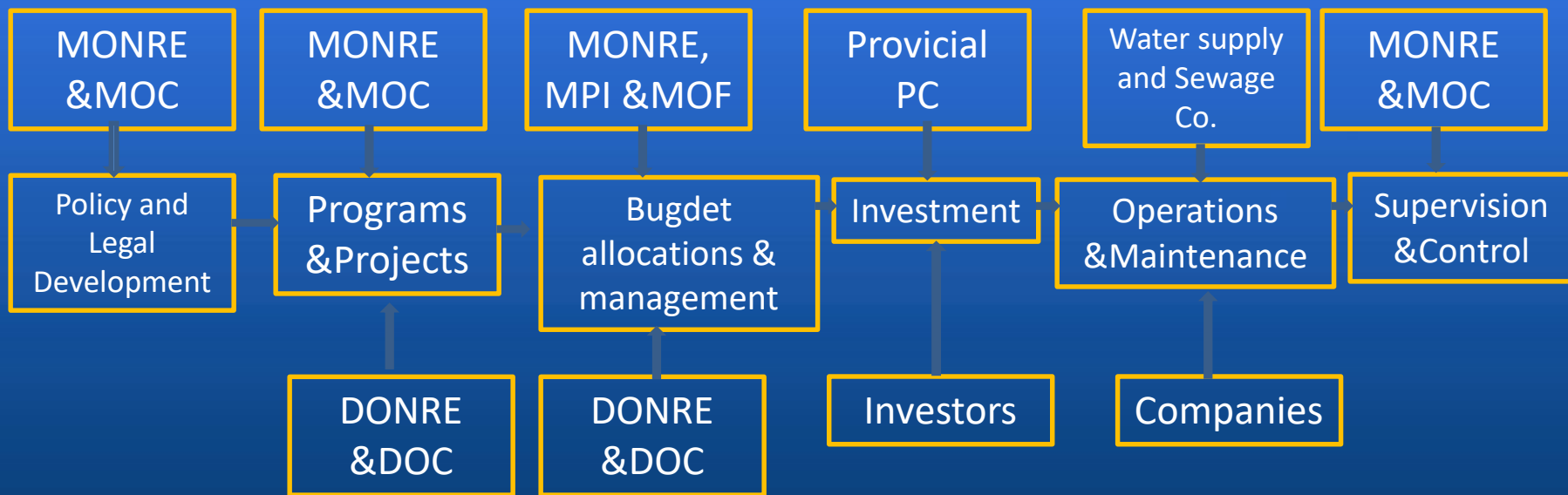
- QCVN 12-MT:2015/BTNMT for waste water from paper and pulp industry
- QCVN 60-MT:2015/BTNMT for waste water from alcohol fuel processing
- QCVN 62-MT:2016/BTNMT for waste water from foundry
- QCVN 08-MT:2015/BTNMT for surface water quality
- QCVN 09-MT:2015/BTNMT for Groundwater quality standard
- QCVN 10-MT:2015/BTNMT for Coastal water quality standard
- QCVN 52-MT:2017/BTNMT for waste water from steel manufacturing

03 QCVN for waste water applied to the Capital area:

- QCTĐHN 02:2014/BTNMT for industrial waste water in Ha Noi area
- QCTĐHN 04:2014 for waste water from textile industry in Ha Noi area
- QCTĐHN 05:2014 for waste water from paper and pulp industry in Ha Noi area



Institutional framework for water environmental governance





Water environmental governance

New regulations in: Law on Environmental Protection 2020 No 72/QH2020;
Government Decree No 08/2022-ND-CP and Circular No 02/2022/TT-BTNMT:

Surface water environment plan:

- Comply with National Environment Master Plan
- Consists of assessment of change trendline in water environment quality
- Mapping the pollution hotspots and new emerging pollution points
- Type and total load of pollutants to water environment
- Assessment of loading capacity, discharge quotas, roadmap for minimizing discharge into water environment
- Measures for prevention and minimization of water environment pollution
- Measures to conserve and improve surface water quality



Water environmental governance

New regulations in the Law on Environmental Protection 2020:

MONRE	DONRE
<p>Guiding the assessment of the load carrying capacity of the surface water environment; Guidance on assessment of surface water quality; Plan for quality management of surface water environment for inter-provincial rivers and lakes Manage the quality of surface water, sediment, and load capacity of the surface water environment for inter-provincial river and lake basins</p>	<p>Manage the quality of surface water environment in the management area; Collect information and data on the current state of the water environment, waste sources and the total amount discharged into the water environment in inter-provincial river and lake basins in the area under management under the guidance of the MONRE</p>



Water environmental governance

New regulations in the Law on Environmental Protection 2020:

Wastewater monitoring, objects of automatic and continuous monitoring of wastewater

Concentrated production, business and service zones, industrial clusters that discharge wastewater into the environment; Investment projects, establishments in the form of risk of causing environmental pollution with medium or higher discharge of wastewater into the environment; Investment projects, establishments are not in the type of risk of causing environmental pollution with large volume of wastewater discharge into the environment.

Periodic monitoring of wastewater

Concentrated production, business and service zones, industrial clusters discharging wastewater into the environment; Investment projects, establishments with a large volume of wastewater discharge into the environment Determine the targets and roadmap to reduce discharge into water sources that are no longer able to bear the load.



Water quality monitoring framework

- Legal framework for monitoring:
 - Decree 08/2022/ND-CP, 2022 DETAILS SOME ARTICLES OF ENVIRONMENTAL PROTECTION LAW
 - Decree 127/2014/ND-CP, 2014 providing regulation on conditions and requirements of monitoring services
 - Decree 38/2015/ND-CP on the management of waste and secondary materials
- Monitoring activities
 - MONRE maintaining annual monitoring programs for surface water at 360 locations with frequency of 4-5 round per year; Line ministries monitor at 100 locations in urban and industrial areas with frequency of 3-6 round per year.
 - Provincial DONREs maintaining annual monitoring programs for surface water at 5 – 30 locations with frequency of 2-6 round per year varies by provinces.
 - 655 automatic wastewater monitoring stations.



Enforcement instruments for water environment management

- Legal framework for inspection:
 - Decree 08/2022/ND-CP, 2022 DETAILS SOME ARTICLES OF ENVIRONMENTAL PROTECTION LAW
 - Decree 155/2016/ND-CP on the administrative penalties in the field of environmental protection
 - Decree 142/2013/ND-CP on the administrative penalties in the field of water resources and minerals
- Enforcement activities
 - 2014 – 2018, MONRE has implemented inspection at more than 3,000 entities. 1,400 entities among those had violations and paid the penalties equivalent to 200 bil. VND.
 - Provincial DONREs also organised about 3,000 inspections at 10,000 entities including companies, industrial parks, 4,100 entities among those got the administrative penalties.



Future targets/plans, issues and challenges of water environment governance

- 1. Implementation of Law on Environmental Protection and under-law legal documents**
- 2. Strengthening the capacity of the institutional framework to avoid overlapping areas in water governance at the central and local level**
- 3. Issue policy and regulation to promote the development of environmental technology for waste water treatment**
- 4. Development of policies that promote cooperation between government agencies, private sectors and civil society; policies to promote privatization and investment to wastewater treatment and management**



Thank you for your attention!