

Progress of Water Environment Governance in Viet Nam

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The 14th WEPA Annual Meeting
22 February 2019
Tokyo

Facts and statistics of water quality

Table No 1: Water quality to be calculated using WQI according to Decision 879/QĐ-TCMT, 2011 by Viet Nam Environment Administration are shown in values from 0-100

WQI value	Explanation	Color code
91 - 100	Good for drinking water supply	Blue
76 - 90	Good for drinking water supply with special treatment options	Green
51 - 75	Good for agricultural activities	Yellow
26 - 50	Good for waterway transportation	Orange
0 - 25	Heavily polluted water needs treatment before usage	Red

Facts and statistics of water quality

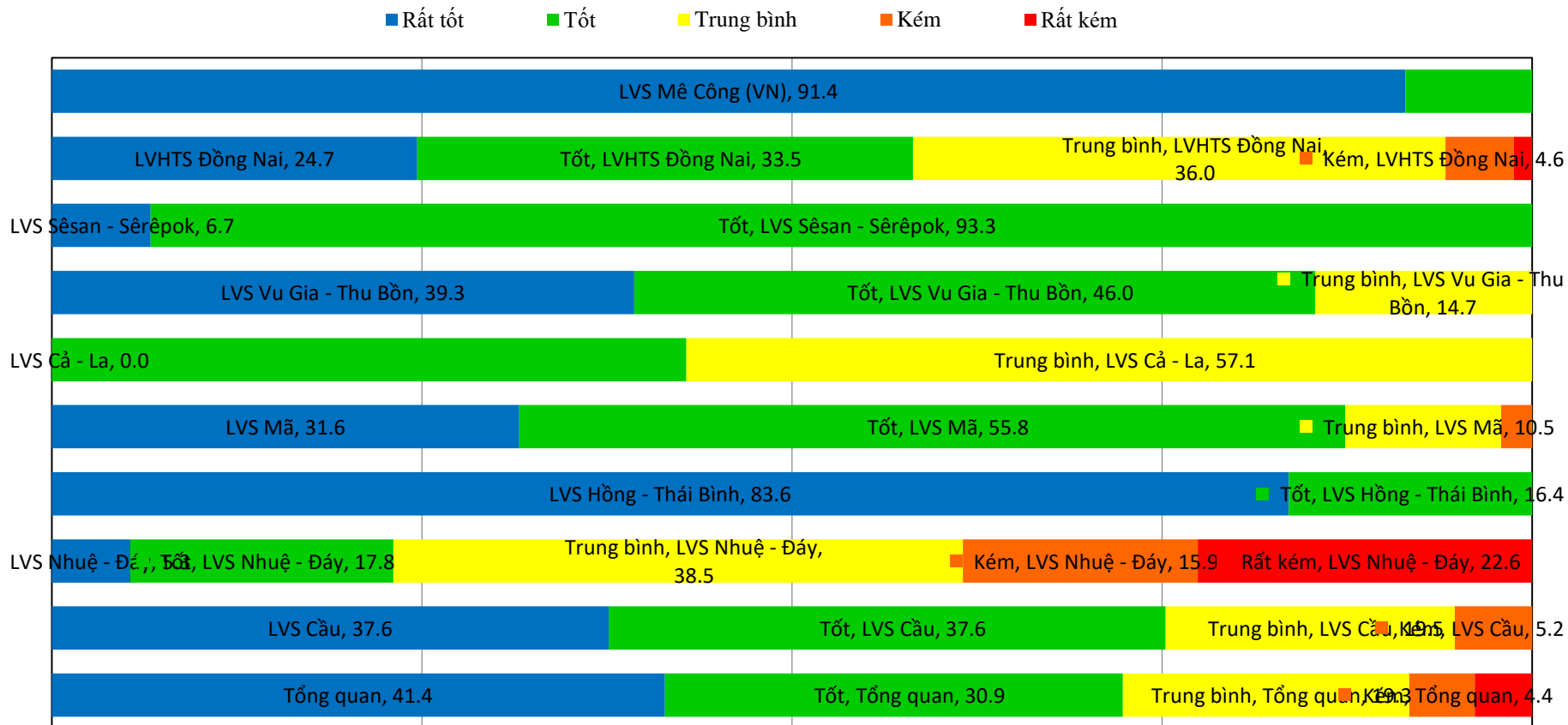


Chart No 1: WQI values for 10 main river basins in Viet Nam from 2013-2017

Facts and statistics of domestic wastewater management

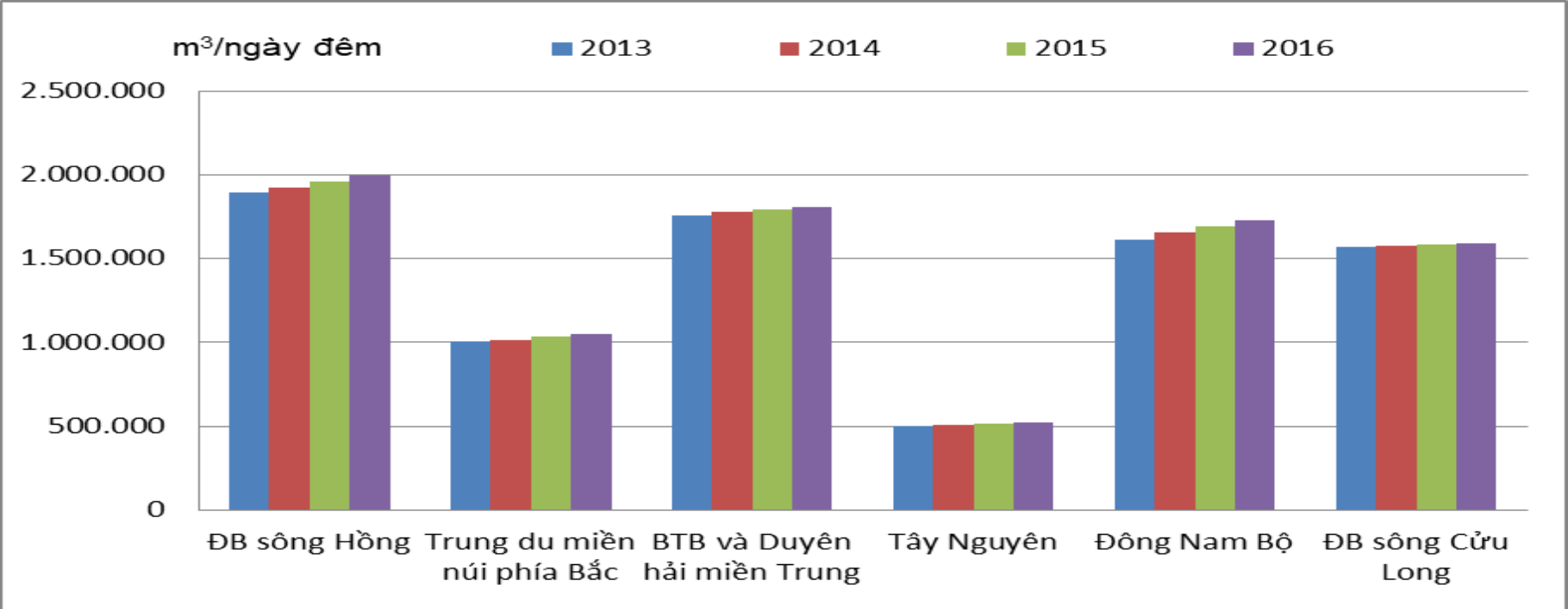


Chart No 2: Generation of domestic waste water in 6 regions in Viet Nam

Facts and statistics of domestic wastewater management

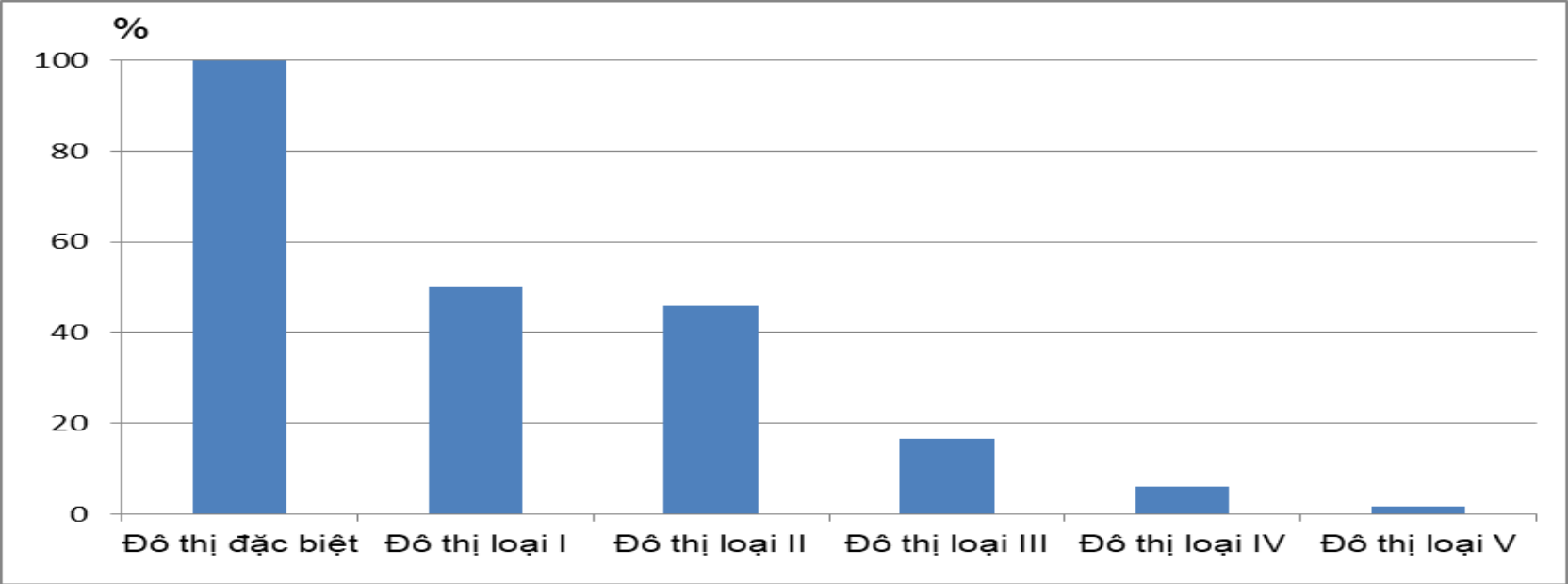


Chart No 3: Ratio of meet-the-standard waste water treatment plant in 5 types of cities in Viet Nam

Facts and statistics of domestic wastewater management

	PROVINCE/CITIES	Generation of waste water (m ³ /day night)	
		Urban	Rural
1	Tp. Hồ Chí Minh	1.750.000	-
2	Bình Dương	133.884	2.692
3	Bà Rịa – Vũng Tàu	128.960	-
4	Nghệ An	74.352	195.913
5	An Giang	75.000	175.000
6	Phú Thọ	30.630	89.230
7	Bắc Ninh	50.000	40.000
8	Đồng Tháp	30.358	57.801
9	Khánh Hòa	22.000	2.606
10	Hậu Giang	14.920	46.707
11	Hà Giang	2.719	6.943

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

Facts and statistics of Industrial wastewater management

	PROVINCE/CITIES	Generation of waste wate (m ³ /day night)
1	Tp. Hồ Chí Minh	143.701
2	Bình Dương	136.700
3	Hà Nội	75.000
4	Bắc Ninh	65.000
5	Bà Rịa – Vũng Tàu	56.880
6	Nghệ An	26.578
7	Ninh Bình	13.000
8	Đồng Tháp	12.477
9	Khánh Hòa	10.000
10	Thanh Hóa	2.800

Table No 3: Generation of industrial waste water in several provinces in Viet Nam

Facts and statistics of Industrial wastewater management

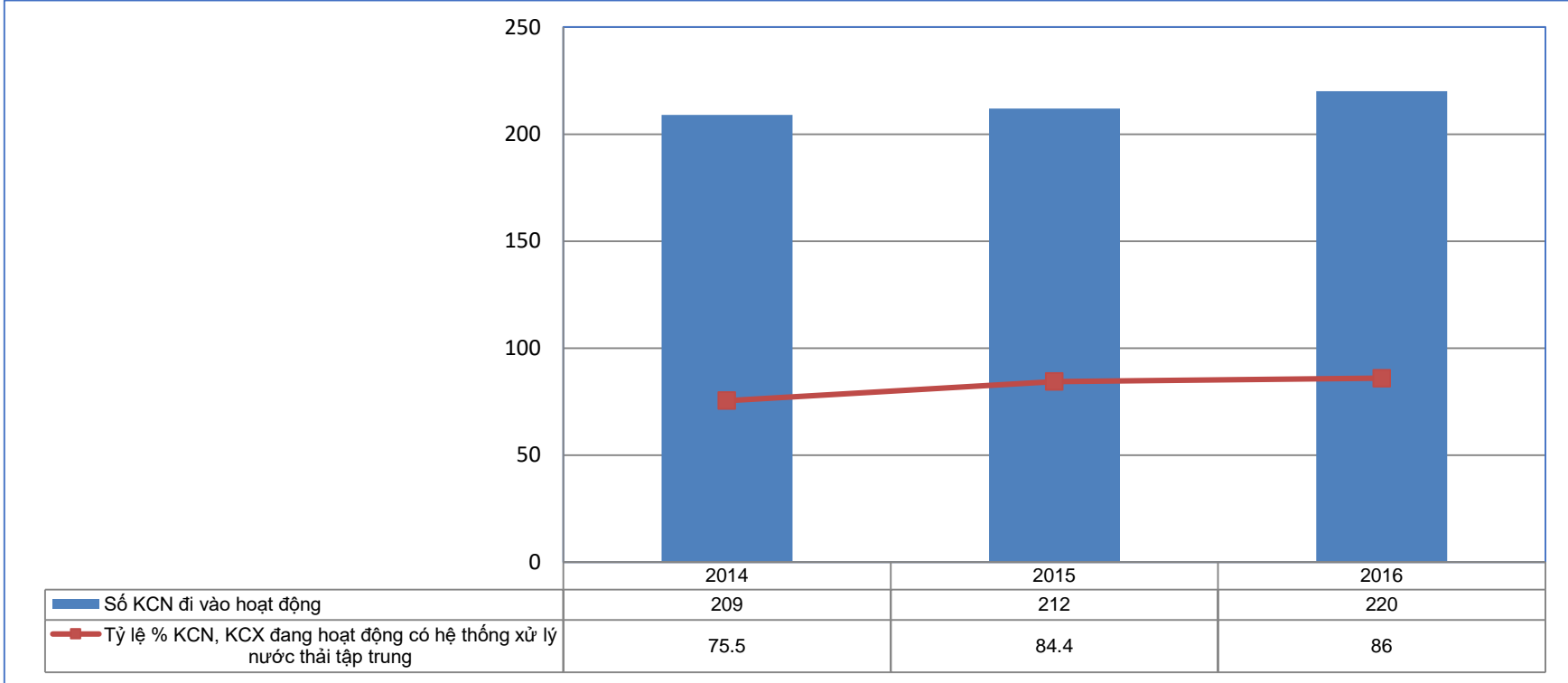


Chart No 4: Ratio in percentage of waste water treatment plants in industrial parks in Viet Nam

Legislative framework for water environmental governance

LAW ON ENV. PROTECTION 2014

20 chapters, 179 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

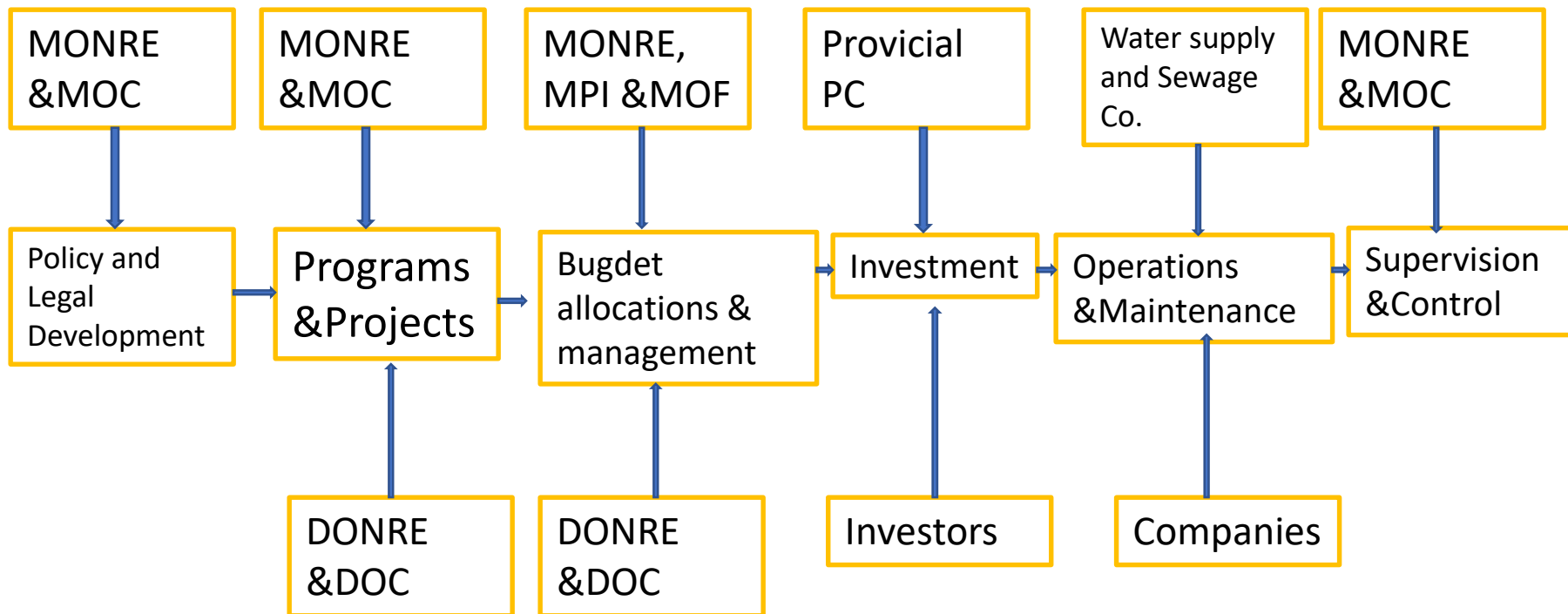
LAW ON WATER RESOURCES 2012

1. Prevention of water pollution, degradation and shortage

2. Monitoring of water resources

3. Water resources protection corridor

Institutional framework for water environmental governance



Water quality monitoring framework

- Legal framework for monitoring:
 - 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; 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.
 - There are 23 central government-operated automatic monitoring station and 80 provincial government-operated stations.
 - There are 420 automatic monitoring stations operated by industry

Enforcement instruments for water environment management

- Legal framework for inspection:
 - 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
 - 2013 – 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 more than 2,300 inspections at 9,300 entities including companies, industrial parks, 4,100 entities among those got the administrative penalties.

Enforcement instruments for water environment management

	Provinces	Number of entities	No of violations	Penalties total (in VND)
I	LVS Cầu năm 2016			
1	Bắc Kạn	14	06	358.880.000
2	Thái Nguyên	104	27	330.000.000
3	Bắc Giang	155	90	9.500.000.000
4	Bắc Ninh	48	08	1.058.000.000
5	Hải Dương	181	13	2.121.500.000
II	LVS Nhuệ - Đáy năm 2016			
1	Hà Nam	24		1.199.500.000
2	Hòa Bình	62	14	374.760.000
3	Nam Định	22	12	245.000.000
4	Ninh Bình	46	-	-
5	Hà Nội	1.667	494	9.651.750.000
III	LVHTS Đồng Nai năm 2017			
1	Tp. Hồ Chí Minh	-	-	-
2	Đồng Nai	91	-	-
3	Bình Dương	453	207	>10.000.000.000
4	Bình Phước	-	42	2.262.660.000
5	Bà Rịa Vũng Tàu	80	-	-
6	Long An	216	26	1.208.070.000
7	Tây Ninh	-	-	-
8	Lâm Đồng	08	-	-
9	Đắk Nông	15	-	>600.000.000
10	Ninh Thuận	-	-	-
11	Bình Thuận	39	-	-

Table No 4: Enforcement results of 2016, 2017 in water environment compliance three main river basins in Viet Nam

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

- 1. Review 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!

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