



MINISTRY OF INDUSTRY AND TRADE
VIETNAM CHEMICALS AGENCY



國際化學品2019

8/7~8/9 管理研討會

**International Chemical
Management Conference**

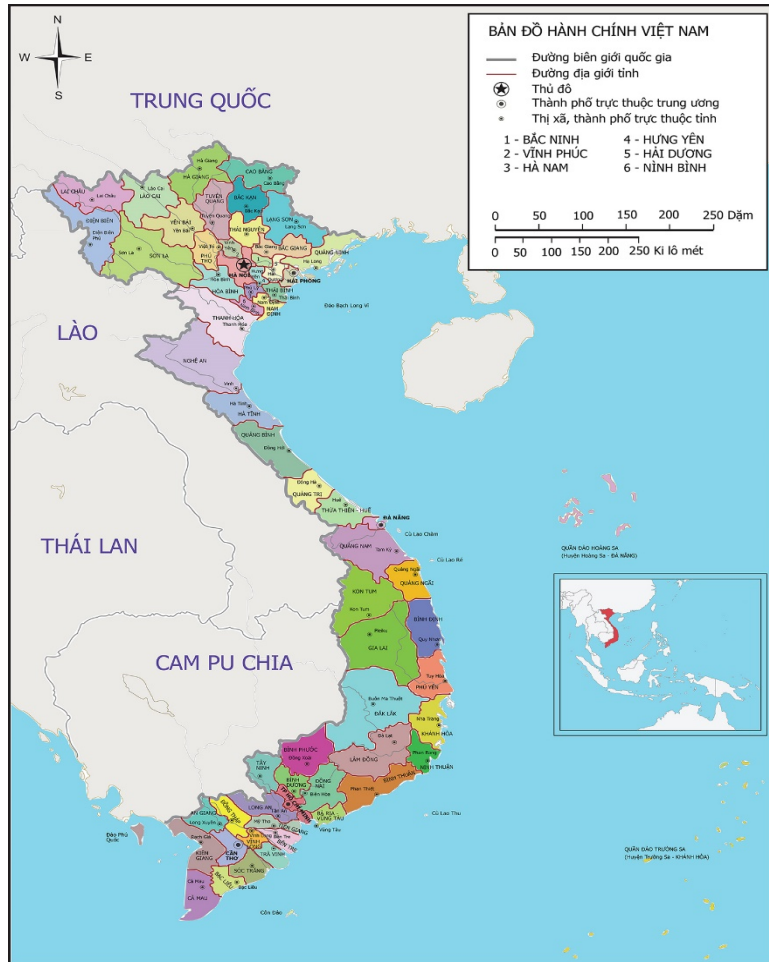
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The challenges and implementing measures to Minamata Convention in Vietnam

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8/7/2019

Introduction of Vietnam



Capital

Hanoi

Official language

Vietnamese

Ethnic groups

•85.7% Vietnamese^[b]
•53 minorities^[show]

Religion

•73.2% Folk or Irreligious
•12.2% Buddhism
•8.3% Christianity

Government

Marxist-Leninist one-party socialist republic

Area

- Total
- Water (%)

331,230.8^[4] km²(127,888.9 sq mi) (65th)
6.4^[5]

Population

- 2016 estimate
- Density

94,569,072^[6] (14th)
276.03/km²(714.9/sq mi) (46th)

GDP (PPP)

- Total
- Per capita

2018 estimate
\$705.774 billion^[7] (35th)
\$7,463^[7] (128th)

Currency

đồng (₫) (VND)

Time zone

(UTC+7)

CONTENTS



Taipei

1 National situation

2 The draft decree

3 Challenges and Experiences



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1

National situation

National Situation

Institutional Framework for mercury management by life-circle

No	Issue	MOIT	MONRE	MOH	MARD	MOST	MOLISA	MOT
1	Mercury supply sources and trade	X		O	O			O
2	Mercury added products	X		X	X			
3	Manufacturing processes in which mercury or mercury compounds are used	X		O	O	O		
4	Artisanal and small-scale gold mining	X	O	O				
5	Emissions	O	X			O		
6	Releases	O	X			O		
7	Environmentally sound interim storage of mercury	O	X	O	O			O
8	Mercury wastes	O	X					O
9	Contaminated sites	O	X					
10	Health aspects	O		X			X	

X: Responsible

O: Involve

National Situation

Legal Framework for mercury management by life-circle

<u>Minamata</u> Convention		Compliance of Legal framework in Vietnam			
Article	Obligation	Fully	Not completed	Not regulated	Referring legislation
3	Mercury supply sources and trade		X		113/2017/ND-CP
4	Mercury added products		X		30/2011/TT-BCT
5	Manufacturing processes in which mercury or mercury compounds are used			X	
7	Artisanal and small-scale gold mining			X	
8	Emissions		X		QCVN: 02,22,23,30,41
9	Releases		X		QCVN: 40,43,50,52
10	Environmentally sound interim storage of mercury		X		TCVN 5007:2002
11	Mercury wastes		X		16/2015/QĐ-TTg
12	Contaminated sites			X	
16	Health aspects		X		QCVN: MOH, MARD, MONRE

National Situation

Mercury emission and release threshold

Area	Unit	Value
Waste burning facilities	mg/Nm ³	0.2 – 0.5
Industrial waste water	mg/l	0.005 – 0.01
Sediment quality	mg/l	0.5 – 0.7
Sludge from water treatment processes	ppm	4
The hazardous threshold for mercury waste	ppm	4

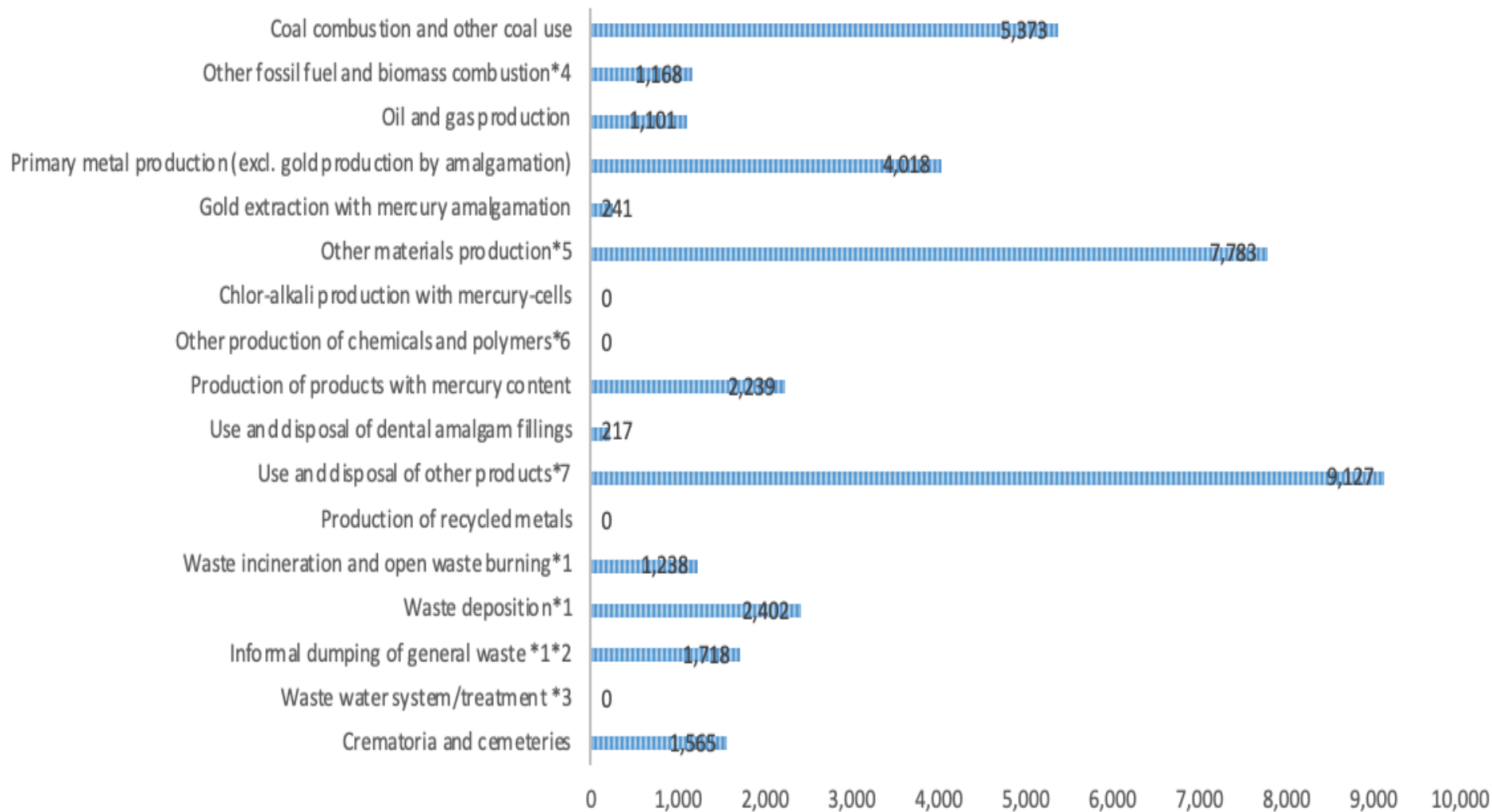
National Situation

Maximum allowable value of mercury

Area	Unit
Mercury exposure	Water: 0.001 mg/l; Surface water used for protection of aquatic life: 0.001 mg/l; Groundwater: 0.001 mg/l; Irrigation water: 0.001 mg/l; Off-shore sea water: 0.16 µg/l; Ambient air: 0.3 µg/m ³ in 24 hours; Weekly food: 0.005 mg Hg/kg weight;
Food	1.0 mg Hg/kg for fish; 0.5 mg Hg/kg (other sea food products); 0.1 mg Hg/kg (salt); 0.05 mg Hg/kg (dairy products, tea, coffee, cocoa, honey, spices ...)
Drinking water	0.001 mg Hg
Mercury in workspace	0.005 mg/m ³ in an average of 8h for ethane mixture of mercury (II) chloride and Lindan; 0.01 mg / m ³ in an average of 8h for organic mercury; and 0.03 mg/m ³ maximum each time, 0.02mg/m ³ , in an average of 8 h for inorganic mercury and mercury compounds; and 0,04mg/m ³ maximum each time.

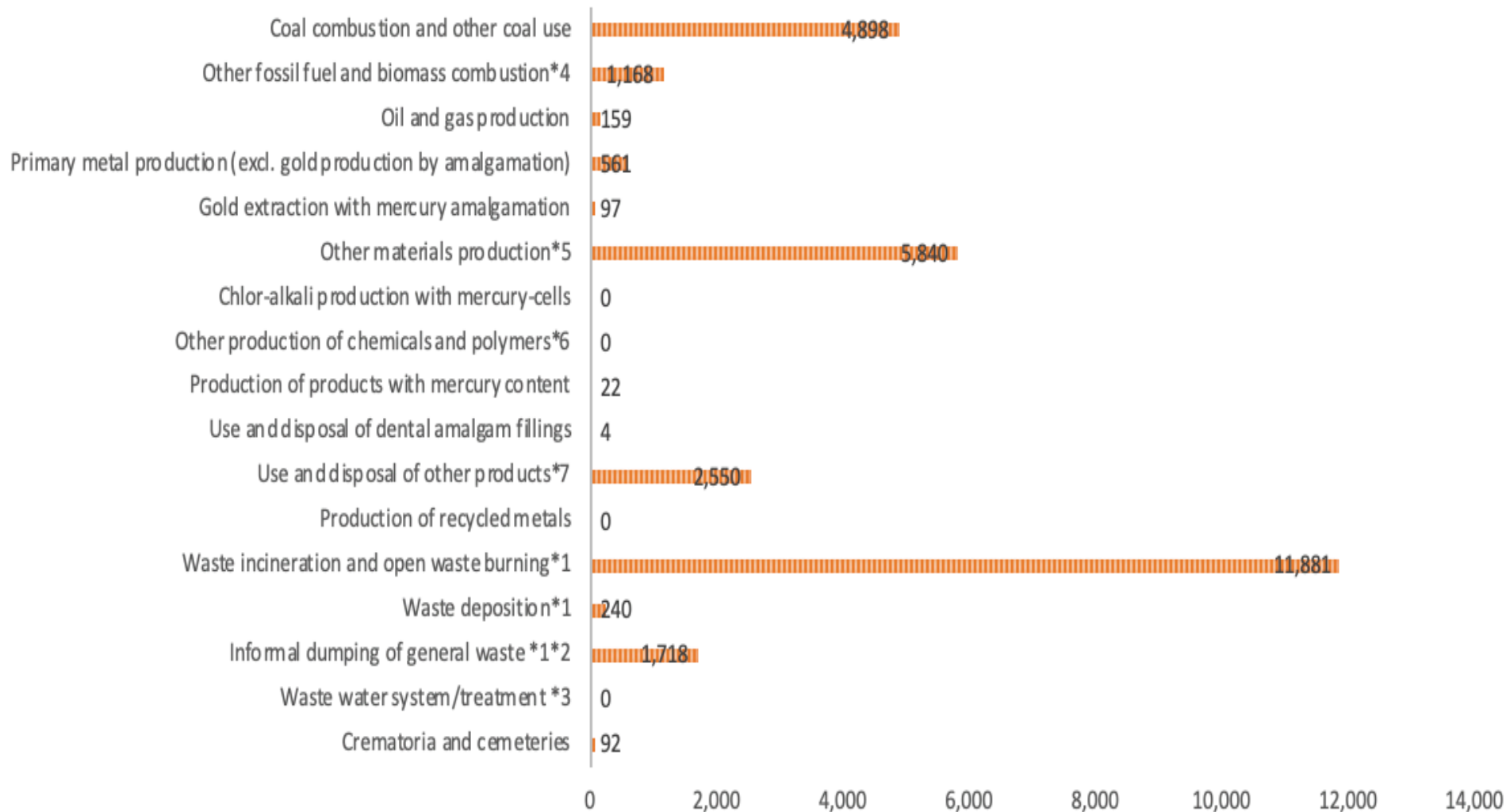
National Situation

Estimation of mercury inputs (Kg Hg/year) in 2015



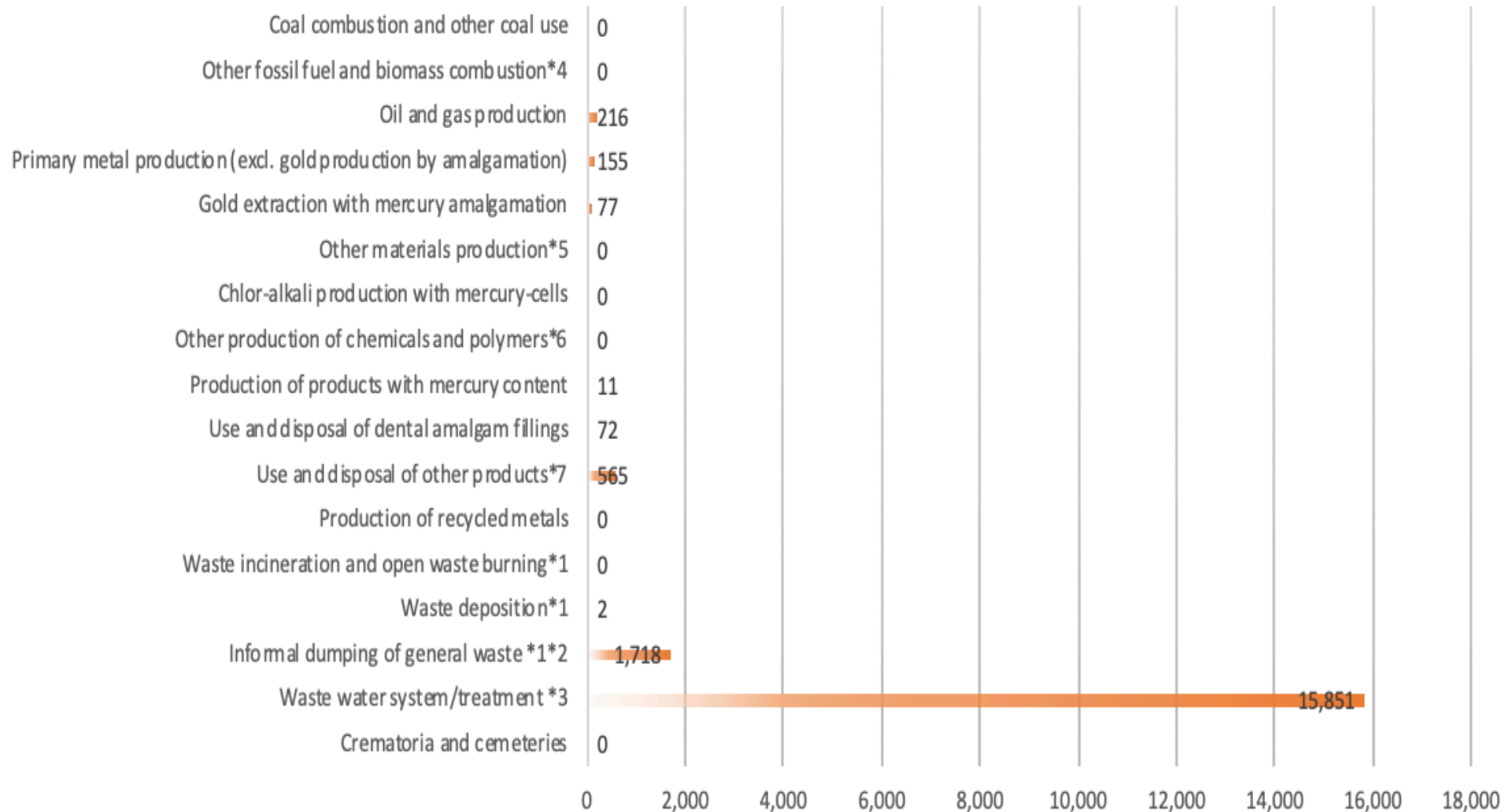
National Situation

Estimation of mercury output to air (Kg Hg/year) in 2015



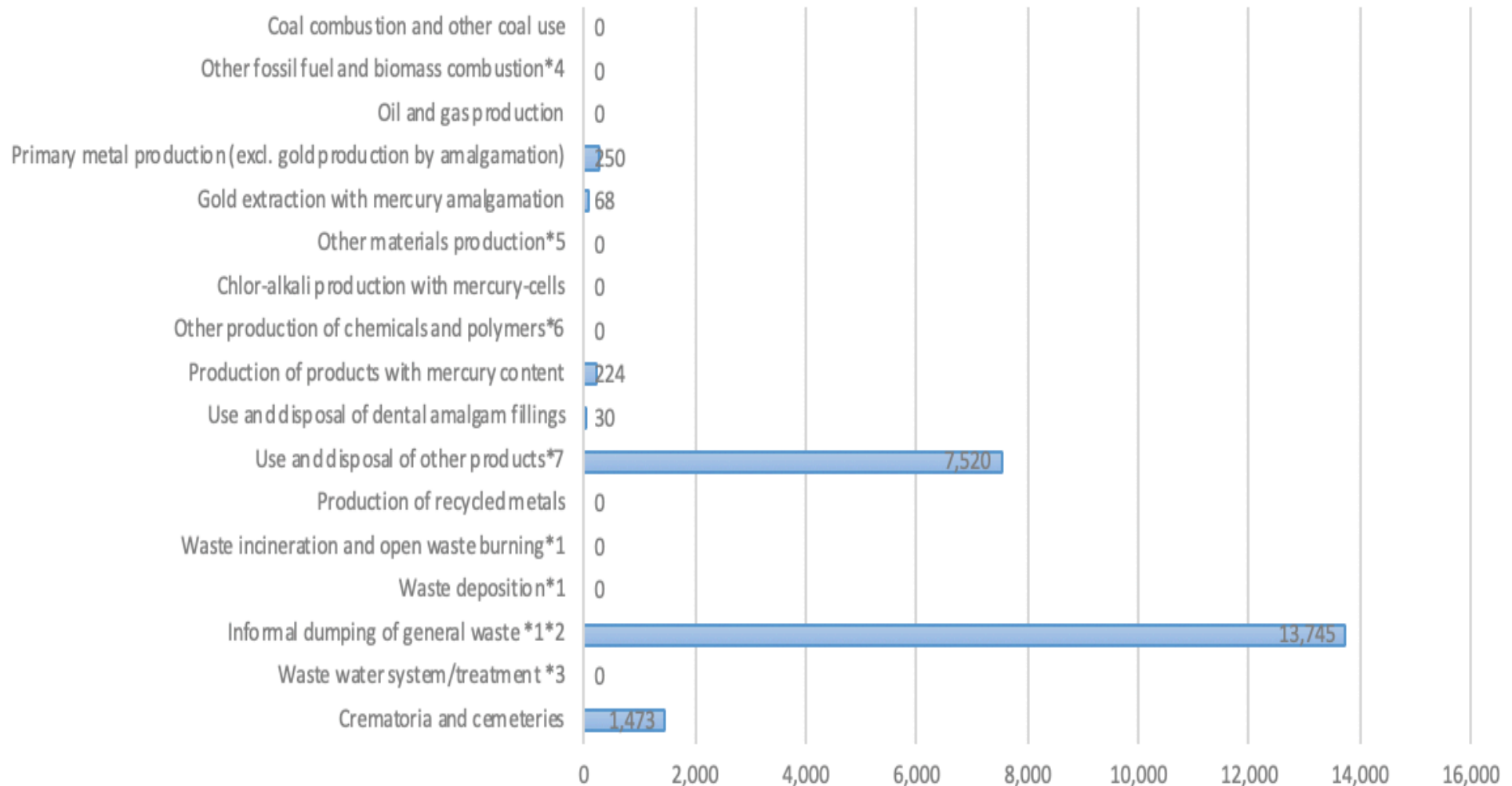
National Situation

Estimation of mercury output to water (Kg Hg/year) in 2015



National Situation

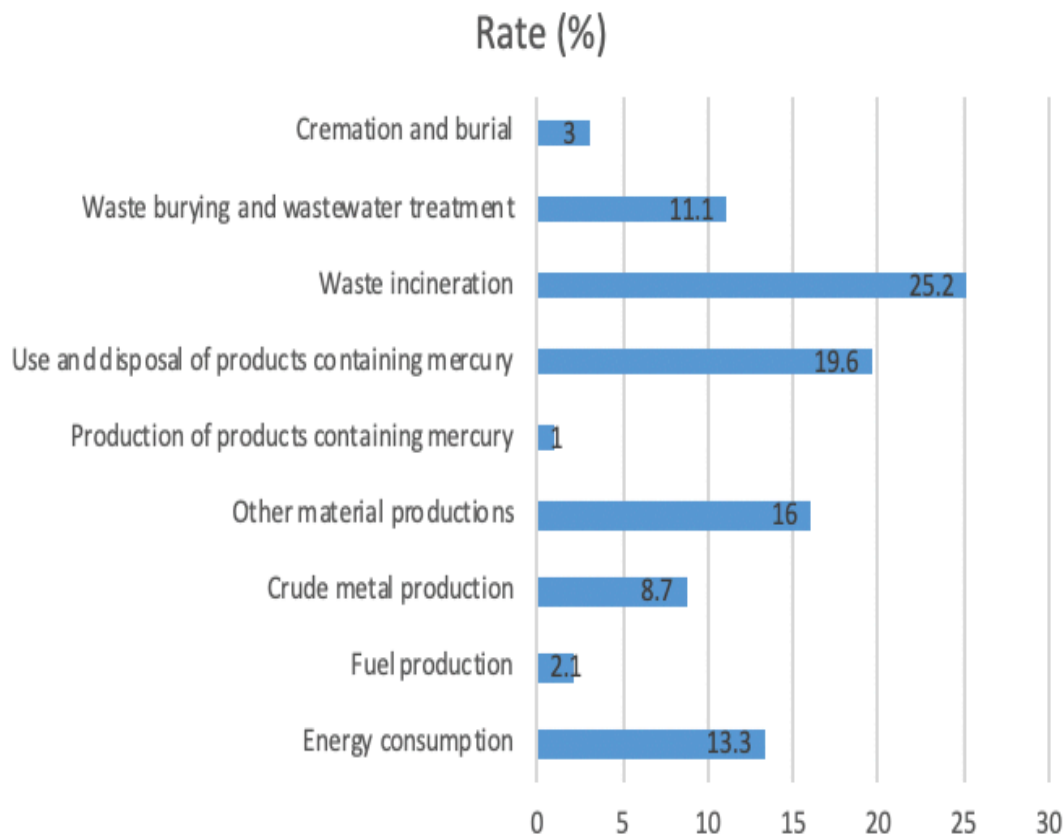
Estimation of mercury output to land (Kg Hg/year) in 2015



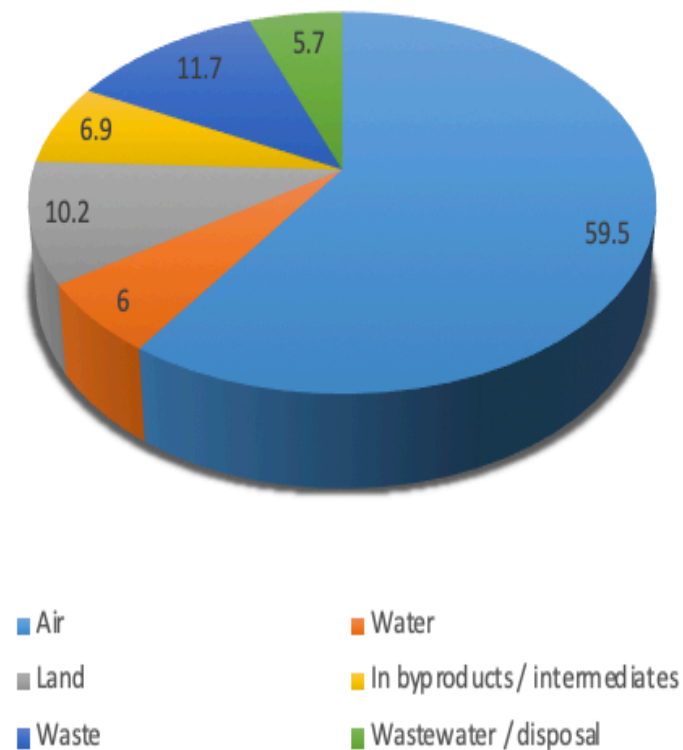
National Situation

National Inventory of Mercury in Vietnam in 2015

Summary of mercury emissions by sector (%)



Allocation of mercury emissions into the environment (%)



National Situation

Challenges in estimating emissions and releases from industrial sources

- Data: Not available
- Input: Emission Factor is very variants for coals (UNEP – 0.15 ppm; test in 2017 0.287ppm)
- Output: Depend on treatment technology (UNEP: 12%; test in 2017 – 43%)

What were the institutional and capacity needs identified for industrial sources of mercury?

- Institutional: for the new industrial sources – BAP and BEP need to be applied
- Capacity: Support and encourage the current industrial sources applying BAP, BEP



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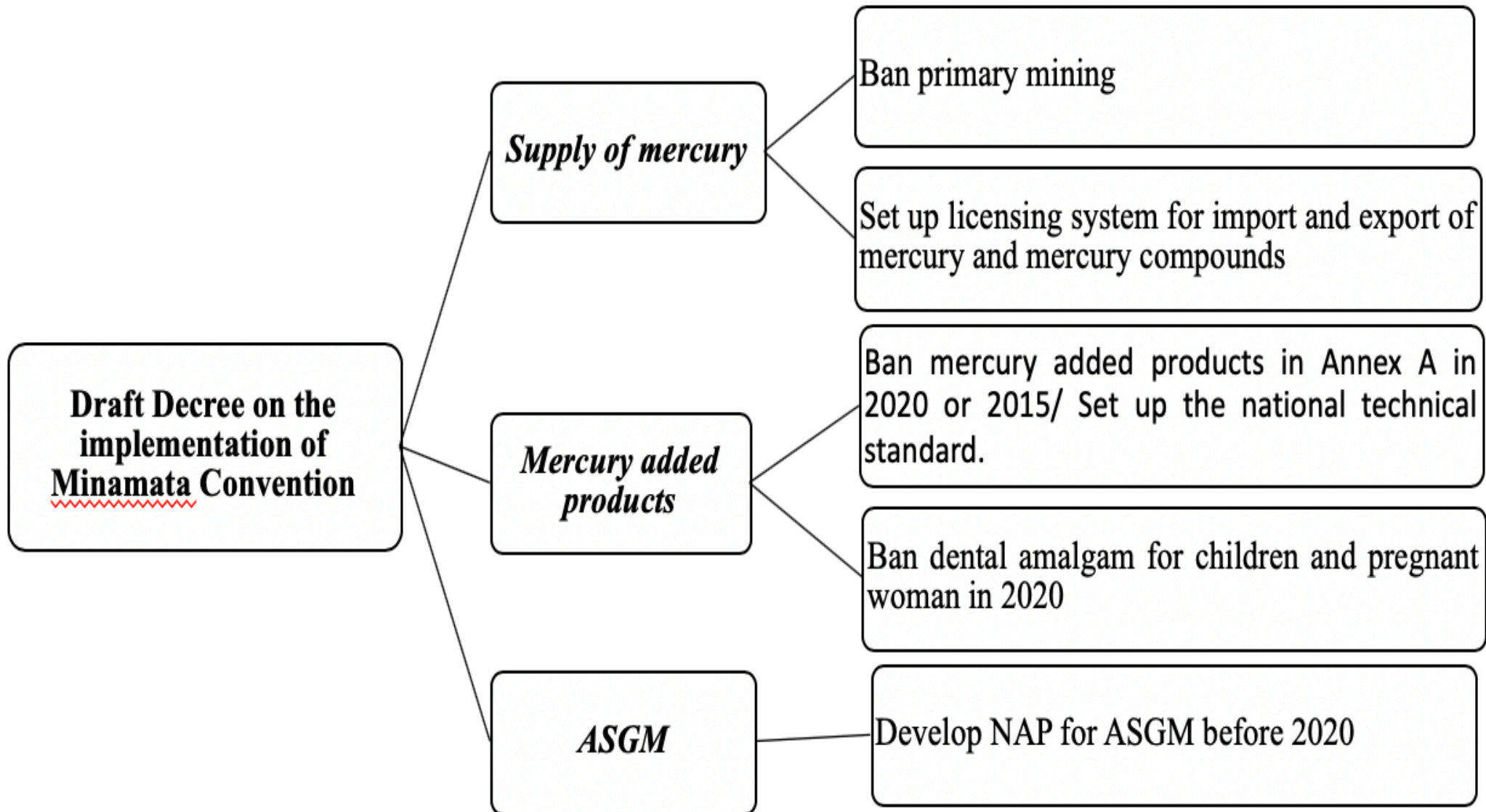
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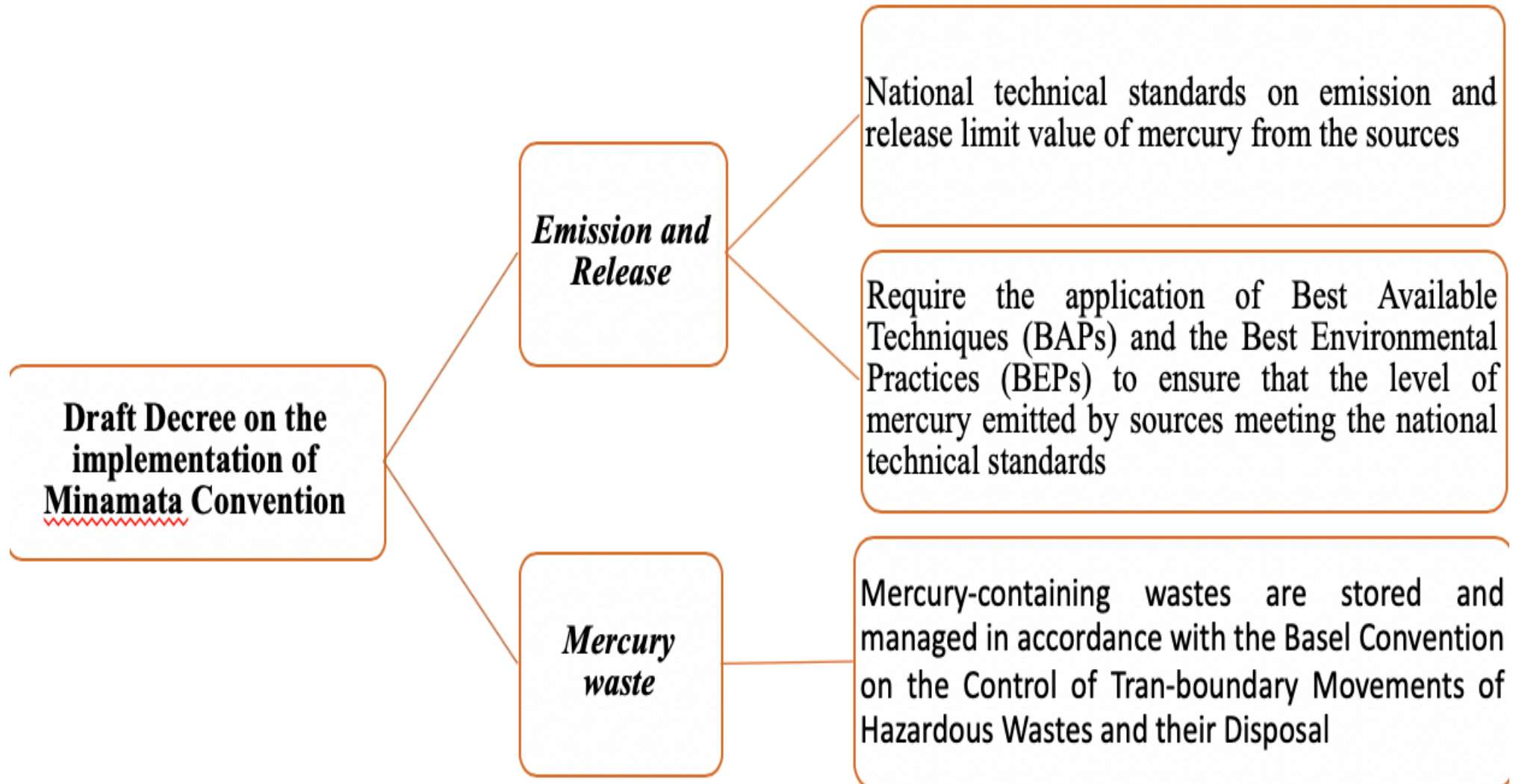


2 The draft decree

The draft decree



The draft decree



The draft decree

Draft Decree on the implementation of Minamata Convention

Enforcement

Designate the National Focal Point

Set up the mechanism for cooperation between stakeholders with the clear responsibility

Others

Awareness raising

Research and monitoring

Reporting



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3 Challenges Experiences

and



Challenges and Experiences

Challenges

- Lack of specific regulations on mercury management by life circle
- Limitation on human and financial resources

Experiences

- Review of institutional and legal framework is very important to know gaps and barriers.
- An inventory is essential to identify the prioritized sectors.
- Clear responsibility and cooperation mechanism are the keys for enforcement.
- Public awareness plays an important role for the successful implementation.



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THANK YOU