

MANAGEMENT OF MERCURY FROM OIL & GAS OPERATION IN INDONESIA



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Ministry of the Environment Republic of Indonesia

Indonesian Regulations and Policies on Environment

prohibition to import hazardous wastes to the country

Act

Act No. 32 year 2009 Concerning Environmental protection and management

Government Regulation

Mercury is classified as limited used of hazardous substance

Wastes containing mercury is categorized as hazardous wastes

Water Pollution Control Regulation

Gov. Regulation No. 18 year 1999 concerning Toxic and Hazardous wastes management

Gov. Regulation No. 74 year 2001 concerning Management of Toxic and Hazardous Substances

Ministerial Decree

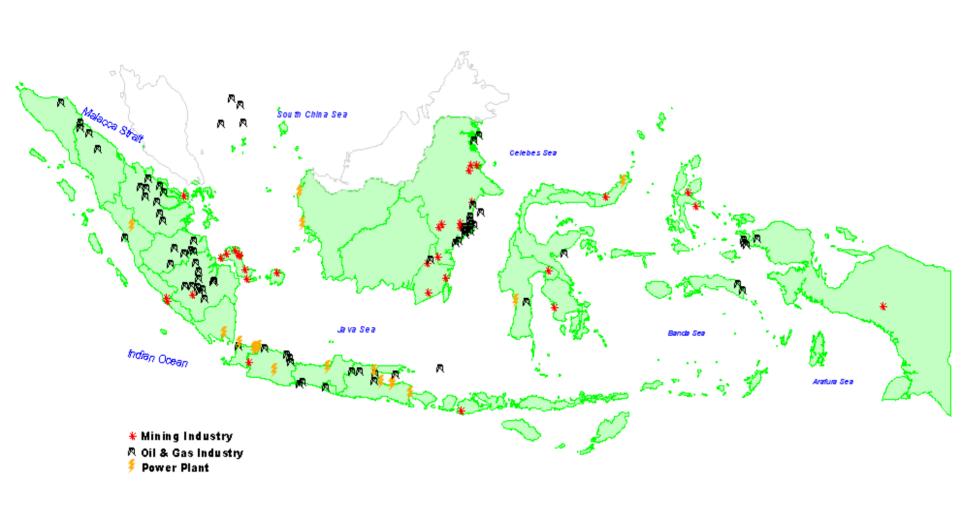
Air Pollution
Control Regulation

Ministerial Decrees on Hazardous wastes management

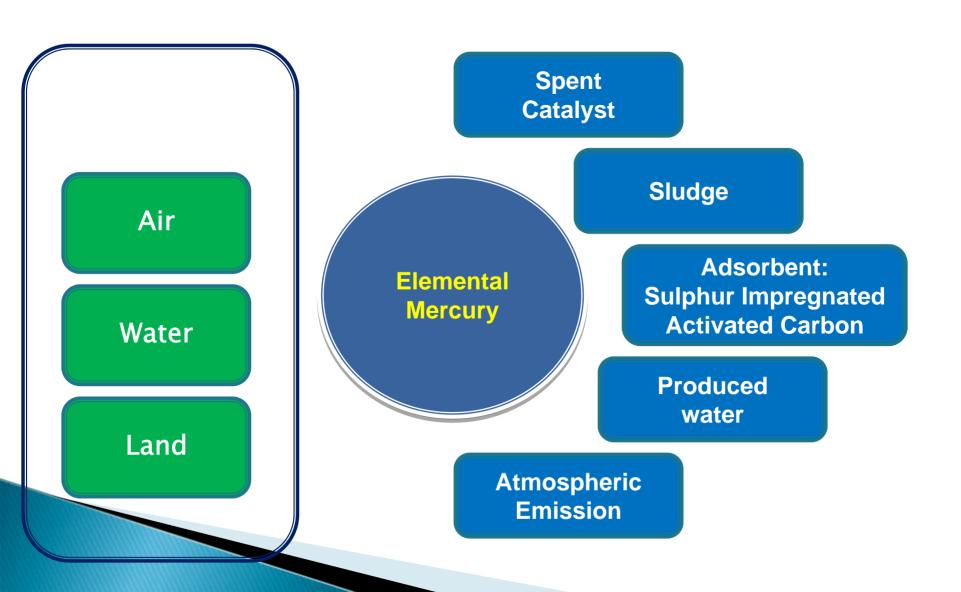
II. Challenges of Oil and Gas Operation in Indonesia

- Some of gas fields or reservoirs in Indonesia containing mercury
- Gas field operation can produce waste containing mercury
- Mercury elemental can be produced as by product of gas plant
- There is no mercury recovery facilities in Indonesia

Majors Oil and Gas operation in Indonesia



Mercury wastes from Oil and Gas Operation



Estimation of Mercury as by product and waste containing mercury

(From 1 Gas Field)

	Amount	Mercury Contain
Elemental Mercury	85 Kg/month	
Spent Catalyst	52 Ton/year	300 - 700 ppm
Carbon	24 ton/year	< 5 ppm
Sludge	10 ton/year	< 5 ppm

^{*)} Amount of mercury produced vary from one to other reservoir

ent Mercury Management

Elemental Mercury:

- Laboratory and research
- In previous time: Chlor Alkali Industry











emporary Storage

Waste Transport

Waste Treatment Plant

Landfill



exported to the other countries for mercury recovery