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## 水污染執法策略及實務國際研討會

# Next Generation Regulatory Design to Improve Compliance and Enforcement

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**Strategies and Practices for Water Pollution Enforcement Workshop**  
November 8-10, 2016 Taipei, R.O.C (Taiwan)



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Ministry of Natural Resources and Environment (MoNRE)



- **2012:** Deputy Director General of Pollution Control Department, MONRE;
- **2006:** Director of Pollution Control Division, Department of Environment, WREA
- **2002:** Head of Environmental Division of Science Technology and Environmental Office
- **1997:** Vice head office of CTPC of Vientiane Capital City,
- **1995:** Technical Officer of Wastewater Management Project of Vientiane Capital City.



# Outline of Presentation

- Water Pollution Control and Enforcement Status and Challenging in Lao PDR; and
- Next Generation Regulatory Designed to Improvement Compliance and Enforcement in Lao PDR.



# Status of Water Pollution Control in Lao PDR

- Legal Framework:

1. Environmental Protection Law (EPL, 2012) Is principles, regulations and measures related to environmental management, monitoring of protection, control, preservation and rehabilitation, with quality, of mitigating impacts and water pollution;
2. National Environmental Standard, 2009 to enforce through compliance monitoring, the environmental regulations and standards on noise, air, land, and other water bodies other than in the oil and gas sector; and
3. Environmental and Social Impact Assessment Decree 2010 is the tools for water pollution control or wastewater management require by environmental management monitoring plan (EMMP) for project developer should be follow.



# Status of Water Pollution Control in Lao PDR

- Institutional Framework:
  1. Ministry of Natural Resources and Environment (MONRE) Pollution Control Department (PCD) is mandated to work on pollution prevention, control, chemical and waste management;
  2. Ministry of Industry and Commerce (MOIC) Department of Industry and Handicrafts (DOIH) is mandated to “mitigate the impacts of industry on the environment;
  3. Ministry of Agriculture and Forestry (MAF) Department of Agriculture (DOA) is mandated to assess and respond to pollution from agriculture;
  4. Ministry of Public Works and Transport (MOPWT) Department of Urban Planning and Housing is mandated to develop the master plan for urban wastewater and sanitation infrastructure.

# **Next Generation Regulatory Designed to Improvement Compliance and Enforcement in Lao PDR**

## **Regulatory Instrument:**

- There are alternative principle mechanisms applied to point sources and non-point sources of pollution, to surface or ground waters, and also in various combinations. The key instruments are:
  - Discharge permits,
  - End-of-pipe controls,
  - Toxicity-based controls,
  - Process-based controls,
  - Waste minimization and cleaner technology,
  - Voluntary schemes,
  - Enforcement mechanisms, and
  - Compliance assessment.





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# Thank you for your attention!

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