



“ Water Environment and Wastewater Management ”
CAMBODIA
13 December, 2017
in Yangon city, Myanmar

Mr. LIM SAY

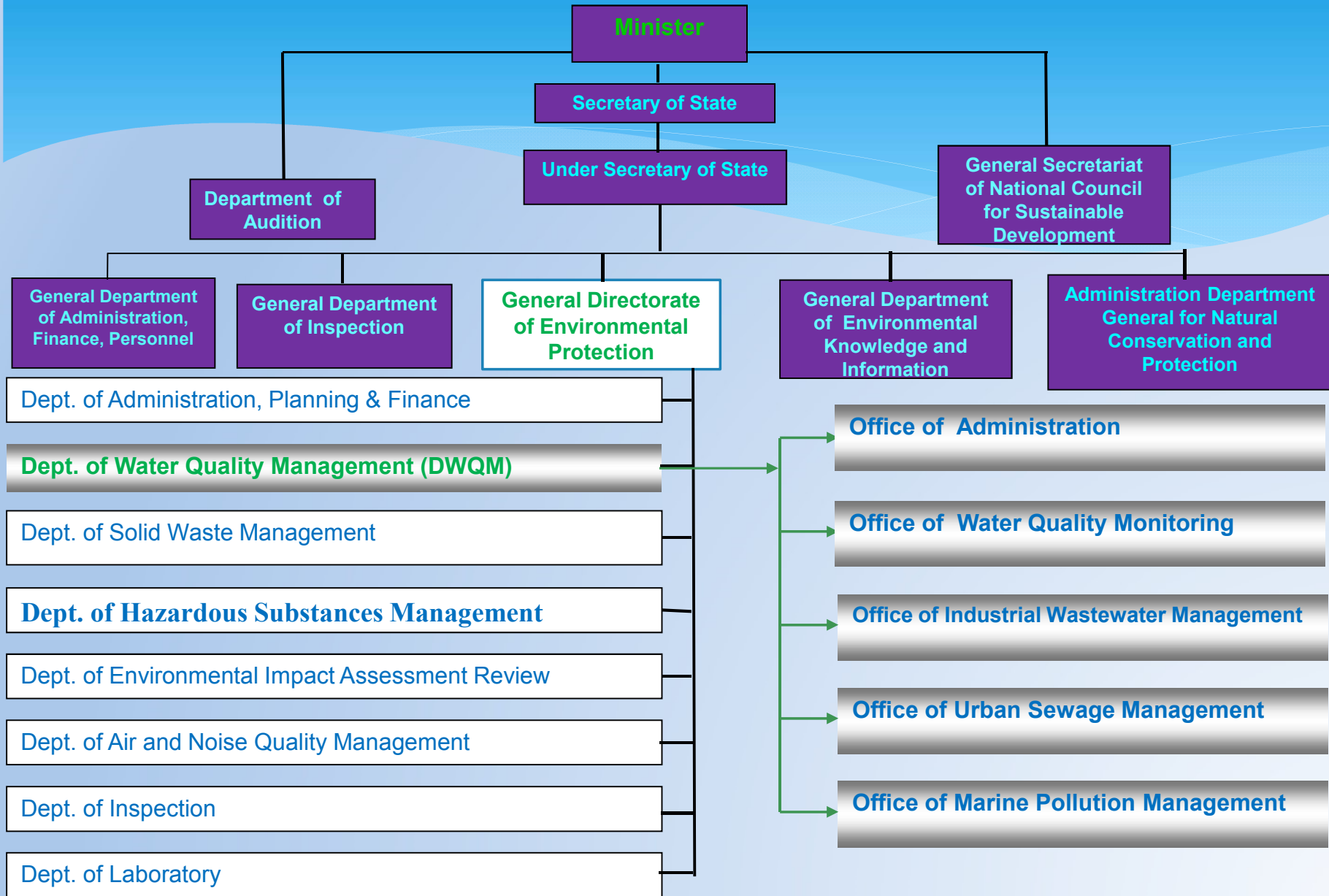
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New Reform Structure of Ministry of Environment



Role and Responsibility of DWQM

- Develop draft of Policy, Planning and Budget;
- Develop technical guideline, and standards for water environmental protection;
- Control, monitoring and evaluation of state of water quality;
- Control wastewater treatment facility and pollution sources;
- Disseminate to pollution source's owners about environmental legislations;
- Prepare technical standards for sewage treatment plant's construction,

Role and Responsibility of DWQM

- Review and command the application form for wastewater discharging permit;
- Study, research and dissemination to publics about the release of type, dose and their danger of pollutant water environmental quality;
- Collect and compile data on pollution sources, water quality and pollutant, released to public water areas;
- Prepare report on the state of water environment;
- Prepare monthly, three monthly, and annual report.

Current and Future Challenges of Water Environment and Wastewater Management

Institutional reform and roles are responsible

- Over the past few years, the Ministry of the Environment has modernized the institution;
- Identified roles and responsibilities that bring positive and negative consequences;
- Lack of human resources and skills yet to respond to roles, duties and workload
- It takes time to improve and develop skills in line with work criteria and responsibilities
- However, it is still constrains overlap responsibility between organizations, concerned ministries as well.

Current and Future Challenges of Water Environment and Wastewater Management (cont.)

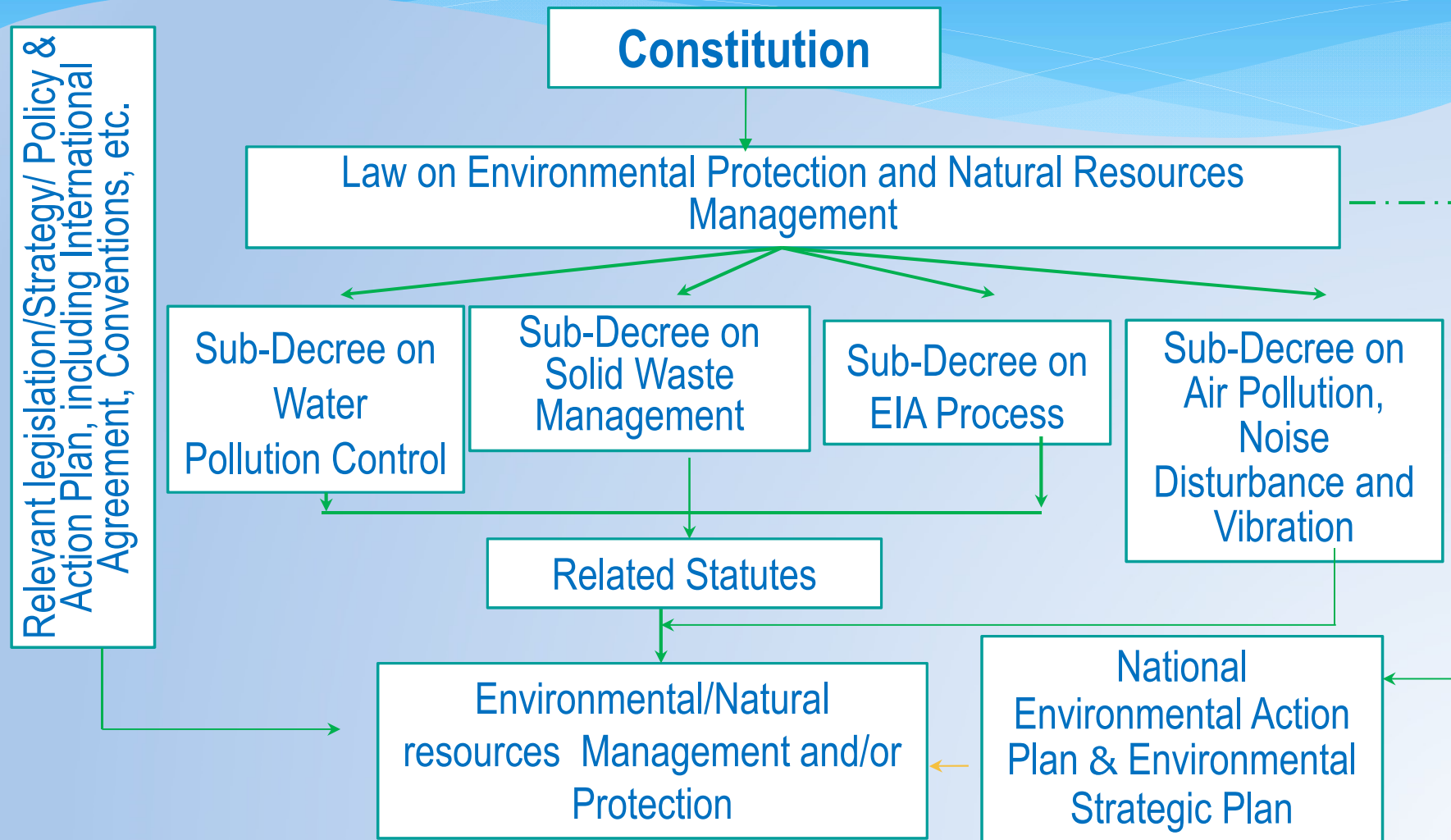
Legal Instrument

- In Cambodia, water reused and desalination technology have not widely disseminated and applied in the industrial sector yet.
- Legal instrument in place does not respond to the current industrial development (Ex: special economic zone and as well as industrial factory construction area regulation)
- The Sub-decrees on Water Pollution Control in 1999 Needed to Be Improved, Respond to Growth, Textile Industry
- The Sub-decrees depend on the national strategy plan and guidelines which have to be established as soon as possible
- It is imperative to establish additional sub-decrees and legal provisions for response mechanisms, gaps and constraints.

Current and Future Challenges of Water Environment and Wastewater Management (cont.)

- * Legal instruments is not enough response to industrial and Municipal development, especially for decentralization and deconcentration from National Level to Provincial and Local Level
- * Based on these challenges, MoE cooperated with inter-ministries, and NGOs to propose New Law Environmental Code as well as Sub-decrees on Electronic Waste Management, Sub-decrees on Plastic Waste
- * Sub-decrees on Municipal Waste Management and Sewage System and Sewage Treatment Management, the aim of these sub-decrees to push the reform decentralization and deconcentration implementation.

Policy & Relevant Legislation for Environmental Management



Current and Future Challenges of Water Environment and Wastewater Management (cont.)

Resources

- Shortage of controlling equipment for monitoring
- MoE Laboratory capacity is still limited (we need to be improve and develop it)
- Shortage of financial constraints for operating works (field monitoring)
- Insufficiency of experts, especially, in the field of water environment and wastewater management,
- Raising awareness to public and private participation
- Lacking of WWTP and the use of combined sewer system

Current and Future Challenges of Water Environment and Wastewater Management (cont.)

Network and Participation

- Requirement of technical support/cooperation from international communities and other donor, including technological transfer, internal and external networking and experience exchange;
- Local and international networking, for instance, data and information dissemination and exchange is limited;
- Advocate to gain insight and support in public participation from the private sector in managing the water environment and industrial wastewater is very limited.

Opinion on the draft action items of AWaP

- * Components of the strategic action plan for Asia Wastewater Management Partnership (AWaP)
 - * I: Participating countries handled the need to further the implementation of the Framework Program, particular on the following areas:
 1. Policies and legislation;
 2. Sub-regional coordinating mechanism;
 3. Information sharing system;
 4. Capacity building;
 5. Research and development;
 6. Sustainable financing and
 7. Partnerships with stakeholders
 8. Set up National and Sub-regional AWaP Action Plan linked with WEPA Action Plan

Opinion on the draft action items of AWaP (cont.)

- * II. Given the above concerns, strategy goals have been developed within seven SAP components, as follows:
 - * Strategic Goal 1: Enhance Policy and Regulatory Environment for wastewater management
 - * Strategic Goal 2: Strengthen Sub-regional Coordinating Mechanism
 - * Strategic Goal 3: Promote Wastewater Management Planning from Sub-regional to Local Level
 - * Strategic Goal 4: Strengthen Information and Resource Sharing System
 - * Strategic Goal 5: Implement a Comprehensive Capacity Development Program
 - * Strategic Goal 6: Promote Joint Research and Development
 - * Strategic Goal 7: Promote Collaborative Arrangement and Partnership
 - * Strategic Goal 8: Increase Access to Sustainable Financing

Opinion on the draft action items of AWaP (cont.)

- * **Vision:** Establishment of Asia Wastewater Management Partnership (AWaP) and the Partner Countries and other stakeholders working together, and committed to a Partnership aimed at enhancing national and sub-regional capacities to prevent, control, combat and mitigate water pollution and to promote technical cooperation and collaboration.
- * **Mission:** To enhance national and sub-regional capabilities concerning Water Pollution prevention, technology transfer, exchange of information, joint research and development projects, training, mutual assistance in response, collaborative arrangements, partnership building and implementation

Opinion on the draft action items of AWaP (cont.)

- * **Guiding Principles:** Take a cooperative and shared approach
Strengthen partnership among governments, industry players and other stakeholders in building sub-regional, national and local capacity in the aspect wastewater management.

Other Ideas and Expectation for the Action items of AWaP

- * 1. Information Sharing and Networking through meeting:
It should be more focus on Raising Awareness and Capacity Building for Provincial and local level (National Reform Policy for Decentralization and Deconcentration);
- 2. Provide Practical Knowledge and know-how through Information Platform:
Online capacity building to improve awareness and knowledge and technology transfer on wastewater management;
- 3. Conduct Co-Projects to Tackle with Common Issues:
Sharing experiences and lesson learnt visa visiting successful countries.

Ideas for Effective Collaboration between WEPA and AWaP

- * It should be parallel roadmap between WEPA and AWaP for Collaboration;
- * Learn about the needs of each country and exchanging experiences;
- * Strengthen and raise awareness of wastewater management techniques

Ideas for Effective Collaboration between WEPA and AWaP (cont.)

- * Should provide opportunities for Asian countries to carry out pilot projects on wastewater management (from industries and municipal sewage)
- * Annual meeting AWaP contact point members with WEPA and ASEAN to update and adopt action plan

Activities of Water Quality Monitoring



Monitoring Activity at Pollution Sources





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