



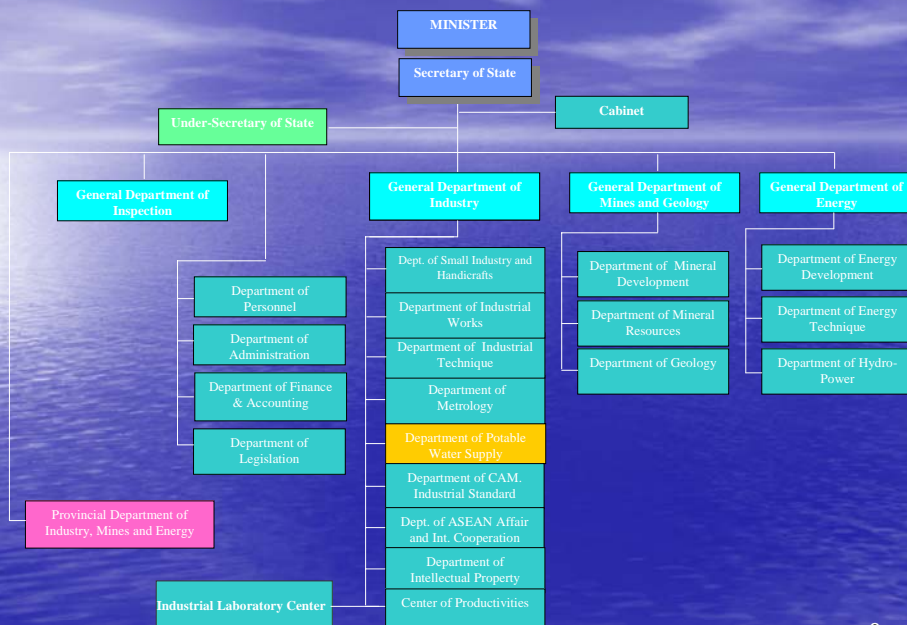
Dialogue on Water Environmental Governance in Cambodia

From 25th to 26th of September, 2008

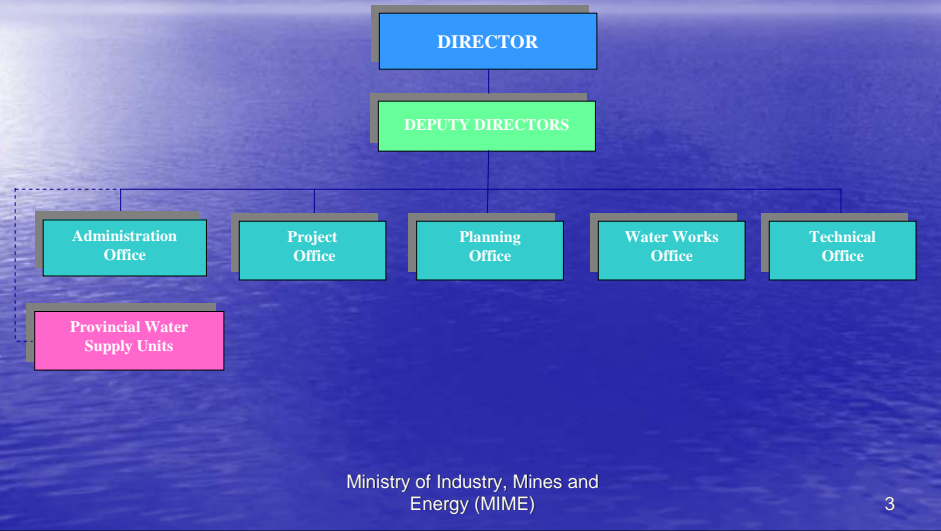
Urban Water Supply

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ORGANIZATION CHART OF MINISTRY OF INDUSTRY, MINES AND ENERGY



MINISTRY OF INDUSTRY, MINES AND ENERGY
 Organization Chart of Department of Potable Water Supply (DPWS)



RGC Structure Involve to Water and Environment Sector

- | | |
|--------|--------------------|
| MIME | Urban Water Supply |
| MRD | Rural Water Supply |
| MOWRAM | Water Resources |
| MOPT | Wastewater |
| MOE | Environment Aspect |
| MOH | Health Aspect |

Urban Water Supply Status

- ✓ 15 Public Waterworks are in operations
 - 2 Small scale system
 - 5 Old system
 - 8 New system (Target of Capacity Building Project)

- ✓ 68 Private Operators have been given licenses

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Urban Water Supply Challenges

1. Dry season water shortage in several Provinces: Sihanouk Ville, Kampong Cham, Battambang, ...
2. Water sources degradation.
3. Old pipe network cause of :
 - Low water quality
 - High UFW
 - Low water pressure

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Urban Water Supply Challenges (Continue)

4. Network extension is limited since lack of capital investments.
5. Cost of providing service can be high, but maybe not cover O&M.
6. The blooming of private sector with lack of experiences.
7. Development of water supply and wastewater are not parallel

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Urban Water Supply Legislation

- ✓ Urban water supply policy
- ✓ Drinking Water Quality Standards

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Urban Water Supply Policy

Royal Government of Cambodia's policy (CMDG) aim to improve the living standard by providing safe water supply and sanitation services for living in a cleaning, healthy and sustainable environment.

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Urban Water Supply Policy (continue)

- 1- Improved water supply sector
(CMDG set target 80% at year 2015)
- 2- Provided opportunity to private sector participation
- 3- Independent
(public sector to be autonomy)

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Private Sector Contract Forms (continue)

1. **B**uild **O**peration **T**ransfer (**BOT**)
2. **B**uild **O**peration **O**wn (**BOO**)
3. **O**utput **B**ased **A**id (**OBA**)
4. **D**esign **B**uild **L**ease (**DBL**)

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Drinking Water Quality Standard

- 1- To ensure that drinking water will be safe in the future, that there are no health risk to the public.
- 2- To serve as a basic for design & planning of water supply treatment.
- 3- To provide a benchmark for assessing long-term trends in the performance of the water supply system.

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Drinking Water Quality Standard (Continue)

- 1- Bacteriology, Coliform and *E. coli* or Thermotolerant have total 2 parameters.
- 2- Inorganic Constituents have total 12 parameters.
- 3- Organic Constituents have total 21 parameters.
- 4- Physical & Chemical Quality have 16 parameters.
- 5- *Small Scale Water Supply have 6 parameters*

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Development of HR on Urban Sector

- I- Public water supply
 - Royal Government of Japan, (JICA)
 - 8 Waterworks
 - Duration 2007 to 2011
- II- Private water supply
 - World Bank (WSP)
 - 10 Waterworks in Kandal, Takeo & Kampong Speu Provinces
 - Under preparation

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