

ROLES OF RBOs OR PUBLIC AGENCIES ON WATER RESOURCES MANAGEMENT, WATER ALLOCATION AND RELATED ISSUES IN VIETNAM

Presented by
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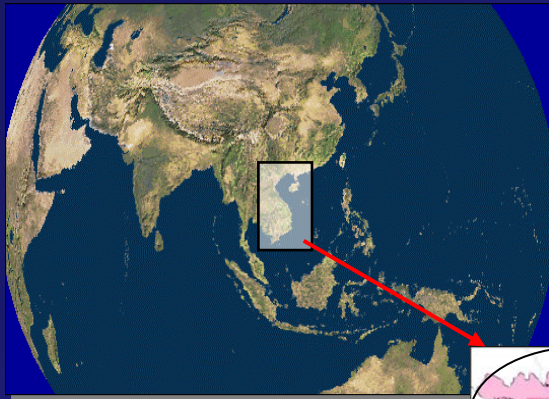
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**RED RIVER BASIN ORGANIZATION (RRBO)
INSTITUTE OF WATER RESOURCES PLANNING, MARD**

Description of Red River Basin



Vietnam country

- Basin Area : 169,020 km²
(81,240 km² in China, 1,100 km² in Lao, 86,660 km² in Vietnam)
- Population (2002) : 28 million
- Average annual surface water volume : 133.68 billion m³
- Total water demands : 19.9 billion m³ (current time);
24.1 billion m³ (2010) ;28.9 billion m³ (2020); 34.5 billion m³ (2040).



- Land Use (2002) :
 - Agricultural 1.87 million ha
 - Forest 2.57 million ha
 - Others 3.9 million ha



Red River Basin

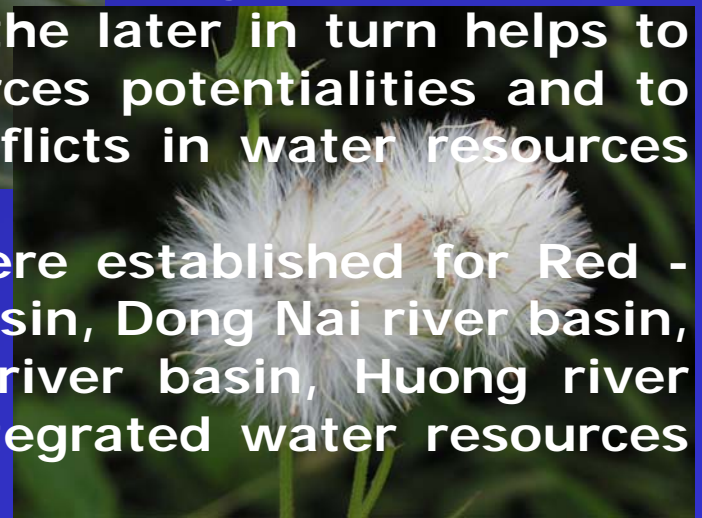
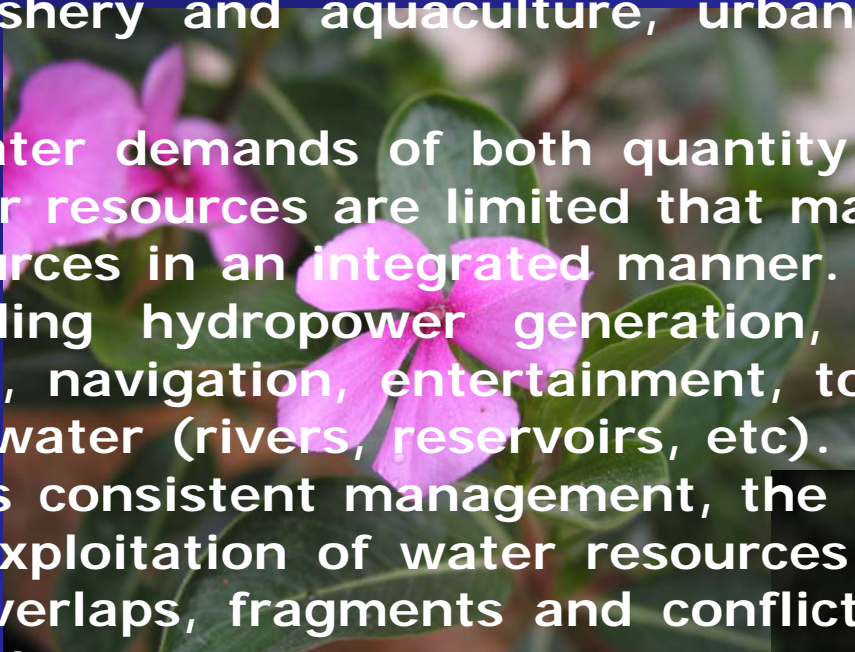
ROLES AND RESPONSIBILITIES FOR RBO'S IN VIETNAM

INTRODUCTION

In the history in line with social development history of Vietnam water used to be exploited and used for separated purposes: domestic, agricultural production, navigation, livestock, fishery and aquaculture, urban and industry water supply...

Now, water demands of both quantity and quality increase whilst water resources are limited that makes all countries use water resources in an integrated manner. This means all water uses including hydropower generation, domestic, irrigation, aquaculture, navigation, entertainment, tourism base on same sources of water (rivers, reservoirs, etc). Integrated water use necessitates consistent management, the later in turn helps to maximize exploitation of water resources potentialities and to minimize overlaps, fragments and conflicts in water resources management.

River basin organizations (RBO) were established for Red - Thai Binh river basin, Cuu Long river basin, Dong Nai river basin, Vu Gia Thu Bon river basin, Srepok river basin, Huong river basin, Ca river basin to implement integrated water resources management in these river basins.



PRINCIPLES OF INTEGRATED RIVER BASIN MANAGEMENT

- Effectively and sustainably exploit and use water resources and related resources to serve people's life, socio-economic development and environment protection in river basins.
- Ensure harmonized combination of different uses of water resources and related resources in river basins in a sustainable and effective manner.
- Ensure good coordination between management levels, sectors, localities and communities in water resources use and management.
- Ensure continuity and systematic nature in water resources exploitation and use, depression and drying up prevention.
- Effectively and consistently make use of investment funds for socio-economic development, livelihood improvement for local people in river basins.

Responsibilities of Agencies in Water Resource Sector

RESPONSIBILITIES	MINISTRY/SECTOR
State management for water resources	Ministry of Natural Resources and Environment
Irrigation	Ministry of Agriculture and Rural Development
Drainage	
Flood and storm control and prevention	
Supply water for rural areas and small towns	
River basin management (forestry)	
Land use management (agricultural land)	
International cooperation on water resources management	Mekong river delta : Ministry of Agriculture and Rural Development as chairman, together with representatives from different Ministries.
Urban water supply and drainage	Ministry of Construction
Colleting data meteorology and hydrology, quantity and quality of surface water and ground water and other water related data.	Ministry of Natural Resources and Environment Ministry of Agriculture and Rural Development Ministry of Science and Technology Ministry of Industry Other Ministries/Sectors
Water quality	Ministry of Natural Resources and Environment Ministry of Agriculture and Rural Development Ministry of health
Hydropower and operation of reservoirs	Ministry of Industry Ministry of Agriculture and Rural Development (operation of large reservoirs during the flood season)
Allocating budgets for planning as well as international investments and assistance.	Ministry of Finance Ministry of Planning and Investment
Water ways and navigation	Ministry of Transportation
Criteria and regulations for clean/drinking water	Ministry of Health

ROLES AND RESPONSIBILITIES

- ☞ Arrange monitoring and supervision of implementation of water resources planning and water-related projects in river basin.
- ☞ Implement baseline investigation, water resources inventory and manage water resources information in river basins in accordance with assignment by the relevant Ministry and Provincial People's Committee.
- ☞ Propose mechanism and policies on water resources exploitation, management and distribution and wastewater discharge in river basins.
- ☞ Arrange for public education, awareness raising and communication on integrated river basin management.
- ☞ Manage, protect and develop water resources, make proposals on preventive measures for water-caused damages in river basins.
- ☞ Assess planning alternatives and projects on baseline investigation, water resources inventory and review in river basins; recommend appropriate alternatives to MARD and competent authorities.

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- ☞ Assess results of planning implementation in order to provide suggestions on finalization, completion of main substances in water resources utilization, irrigation, drainage, and flood control and water conservation in river basins.
- ☞ Coordinate with relevant organizations in implementing and monitoring river basin water resources planning projects approved by competent authorities.
- ☞ Coordinate with relevant organizations in developing information management mechanism serving water resources management, exploitation and use in river basin.
- ☞ Propose development of capacity building programs and awareness raising programs on water resources management, exploitation and protection for organizations and individuals in river basins.
- ☞ Synthesize and submit to Minister of MARD and relevant Ministries and sectors situation of water resources exploitation, use and protection in river basins.

DEVELOPMENT ORIENTATIONS

In view of policies and legislations

- Consider long term water demands and uses to balance water resources at national and regional levels, give special attention to comprehensive water supply planning for medium, large cities and industrial zones.
- Set up national environment standards for groundwater, surface water sources (river, lake, reservoir and wetlands)...
- Consolidate water resources state-management bodies, review water resources management functions at different organizations to avoid overlap, coincidence, at the same time study into establishment of a consistent and crosscutting water resources management body.
- Develop database serving water resources management and protection.
- Intensify international cooperation in utilizing, managing and protecting water sources shared between Viet Nam and neighbor countries.



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In economic view

- Develop and implement integrated projects and programs on management of river basins, watersheds and groundwater.
- Extend and improve hydraulic schemes of different scales to improve performance and water recycle.
- Consider water as a good, calculate service tariff basing on the principle “water users must pay” and “pay for pollution”.
- Rehabilitate rivers and improve seriously degraded irrigation and drainage systems.
- Encourage natural forest protection and reforestation.
- Integrate natural disaster mitigation programs into socio-economic development programs in conformity with specific regional conditions.



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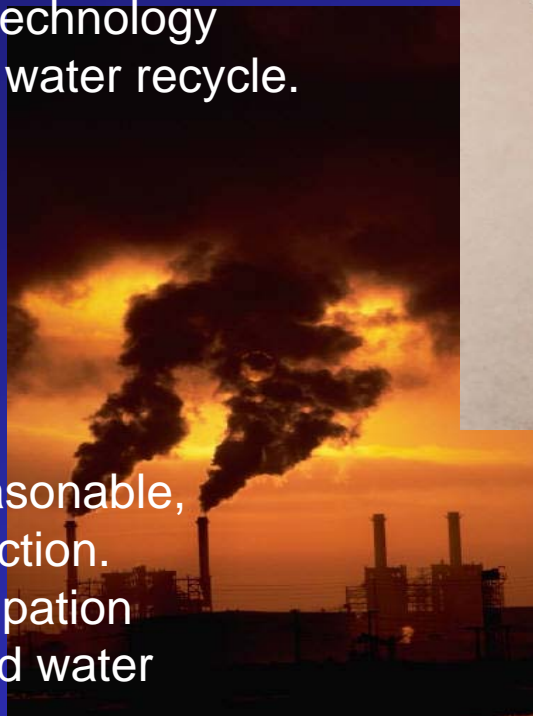
In technical view

- Intensify introduction of wastewater treatment technologies, encourage utilization of clean production technology to minimize wastes and waste water recycle.



Awareness

- Raise public awareness on reasonable, economic water use and protection.
- Encourage community's participation in environmental protection and water saving activities.



Thank you for your attention

