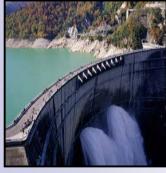






OVERVIEW OF THE WATER SERVICES INDUSTRY IN MALAYSIA



BY

MDM. NOR 'AINI ABDUL WAHAB

DEPUTY SECRETARY-GENERAL

(GREEN TECHNOLOGY AND WATER)

MINISTRY OF ENERGY, GREEN TECHNOLOGY AND WATER,

MALAYSIA



14 FEBRUARY 2011



OUTLINE OF PRESENTATION

- BACKGROUND
- 2 AREAS OF CONCERN
- 3 THE WAY FORWARD



BACKGROUND

- ROLE OF KETTHA FOR THE WATER SECTOR
- ECONOMIC TRANFORMATION PLAN
- MALAYSIA DEVELOPMENT PLAN
- MINISTRY'S STRATEGIC PLAN 2010 2015 FOR THE WATER SECTOR

ROLE OF KETTHA (MINISTRY OF ENERGY, GREEN TECHNOLOGY AND WATER)

- Formulation and implementation of national water policy.
- Planning and developing strategic directions.
- Formulating licensing and supervising policy and framework.
- Planning, evaluating and monitoring development projects.
- Create a regulatory system that is dynamic and progressive.
- Ensure a suitable environment for the development of the water service industry



ECONOMIC TRANSFORMATION PROGRAMME





KETTHA'S STRATEGIC PLAN 2010-2015

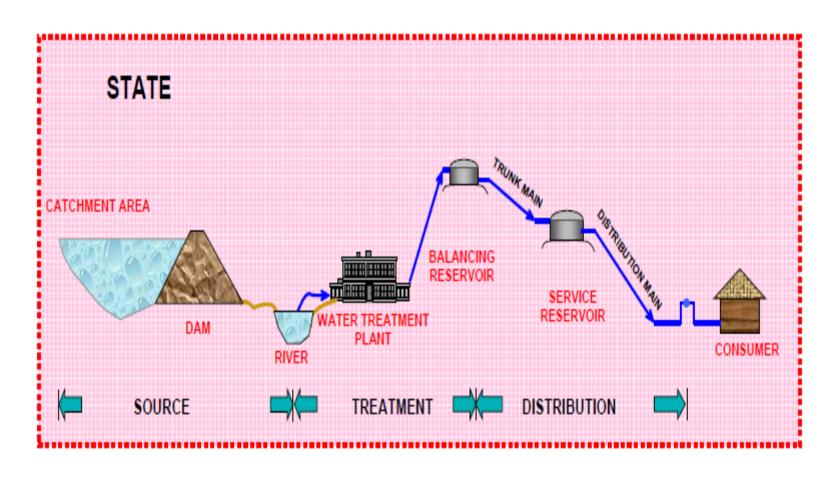


WATER SERVICES INDUSTRY ROADMAP

8 th Plan Period	9 th Plan Period	10 th Plan Period
(2001-2005)	(2006-2010)	(2011-2015)
Stabilization	Consolidation	Towards Efficiency
 Privatisation and corporatization of state water authorities Planning for restructuring of water services industry -amendments to Federal Constitution 	 Operationalisation of SPAN Enforcement of WSIA 2006 Transfer of water related assets to PAAB at negotiated value and development of new water infrastructure Service providers become asset light and focus on efficiency and effectiveness 	to allow full cost recovery to be fully phased in by 2013 Integration of water supply and sewerage services Initial efforts towards introduction of integrated water and sewerage

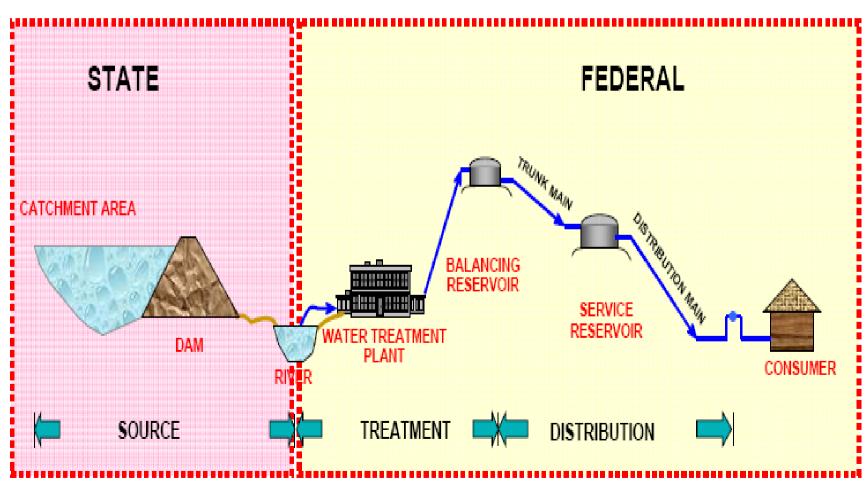


WATER MANAGEMENT IN MALAYSIA – PRE-AMENDMENTS TO THE FEDERAL CONSTITUTION





WATER MANAGEMENT IN MALAYSIA – POST-AMENDMENTS TO THE FEDERAL CONSTITUTION

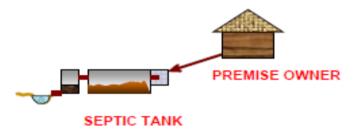


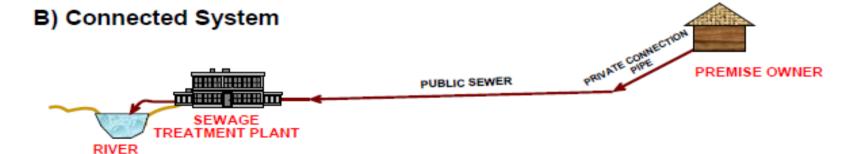


MANAGEMENT OF SEWERAGE SERVICES IN MALAYSIA

A) Individual Septic Tank

TREATMENT I





COLLECTION

PRINCIPAL ROLE OF FEDERAL AND STATE GOVERNMENTS

Body	Area of responsibility	Description
Federal Government	Policy matters	Development of a holistic water policy for the country by setting policy directions.
State Government	Water resources matters	Manage existing water basins with the view of protecting the quality of raw water and identifying new water basins when required.
National Water Resources Council (NWRC)	Governance matters	Ensures coordination with the various State Governments in the management of the water resources.
Suruhanjaya Perkhidmatan Air Negara (SPAN)	Regulatory matters	Regulate the whole water industry based on the policy directions set out by the Federal Government. Promote an efficiency driven regime



INTRODUCING REGULATORY REGIME

WATER SERVICES INDUSTRY ACT 2006 (WSIA) NATIONAL WATER
SERVICES
COMMISSION

PAAB – PENGURUSAN ASET AIR BERHAD -(WATER MANAGEMENT AGENCY)

INDAH WATER KONSORTIUM BERHAD



AREAS OF CONCERN

Ensure coverage and sustainability of quality water

Operational efficiency of the water industry

High operation and maintenance cost

High non revenue water (NRW)



THE WAY FORWARD

ETP

Regionalization of treatment plants

Operation and maintenance

Waste to wealth

Non Revenue Water

Green fees

Consumer



To create a holistic and viable water services industry with the proficiency to deliver an efficient and excellent water and sewerage service



Thank you





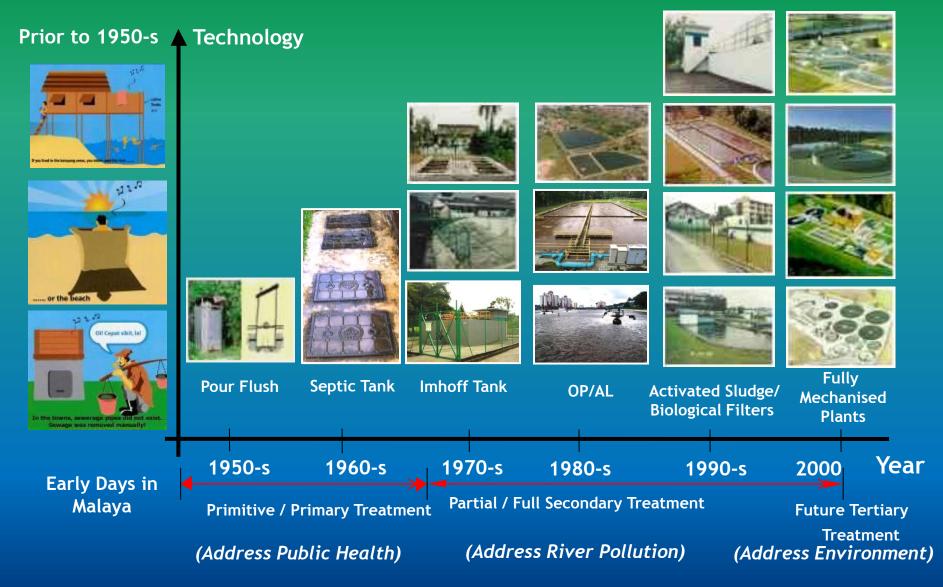




Presentation to PPP Council for Overseas Water Infrastructure



Evolution of Sewerage Systems in Malaysia



The sewerage technology in Malaysia has improved significantly within a span of over 5 decades

Progressive Development of Malaysia's Sewerage Services





Protect Public Health

Present



Protect Water Resources

Potential



Preserve Environment

Public Health
Protect Water
Resources
Environment

Public Health
Protect Water
Resources
Environment

Public Health
Protect Water
Resources
Environment

Evolution

No Tariff

1. Poor hygiene

Priority Levels

- 2. Water pollution
- 3. Water Borne Diseases:
 - Diarrhea
 - Worm Infections,
 - Cholera
 - Typhoid
 - Stunted Growth
 - Death

Current Tariff

Domestic Charge of RM2 to month does not cover operating costs:

- 1. 0&M
- 2. Collection
- 3. Conveyance RM8 per Equipment Replacements
- 4. Depreciation
- 5. Planning
- 6. Monitoring
- 7. Administration etc.

Green Tariff

- 1. Conserving the environment
- 2. Reducing pollution
- 3. Increase level of health through sanitary standards
- 4. Mitigate climate change via conservation& limiting waste
- 5. Sustainable sewerage management

Sewerage Management in Malaysia

Currently

Before Merdeka	Mostly Managed by Local Sanitary Board	
After Merdeka	Urban by Municipals & Rural by Ministry of Health	
June-93	Sewerage Act 1993 (Act 518) was passed by Parliament	
December-93	Dept. of Sewerage Services was formed as regulator for sewerage services under the SSA.	
Before 1994	Sewerage Services were managed by 144 Individual Local Authorities	
April-94	Indah Water took over sewerage management in most states in Peninsular Malaysia	
June-00	Govt. Under Minister of Finance Incorporated took over IWK	
June-06	Water Services Industry Act 2006 & SPAN approved by Parliament	
January-08	Establishment of National Water Services Commission (SPAN) & enforcement of Water Services Industry Act 2006	
	Indah water provides sewerage services in 88 out of the 144 Local	

the areas is still managed on Ad-Hoc basic

Authorities in Malaysia (however not on holistic manner). Rest of

4

Governance Structure for Sewerage Services







- 100% Equity
- Govt. Support Loan & Subsidy





Regulator of Sewerage Services







Policy & Control of National Sewerage Agenda

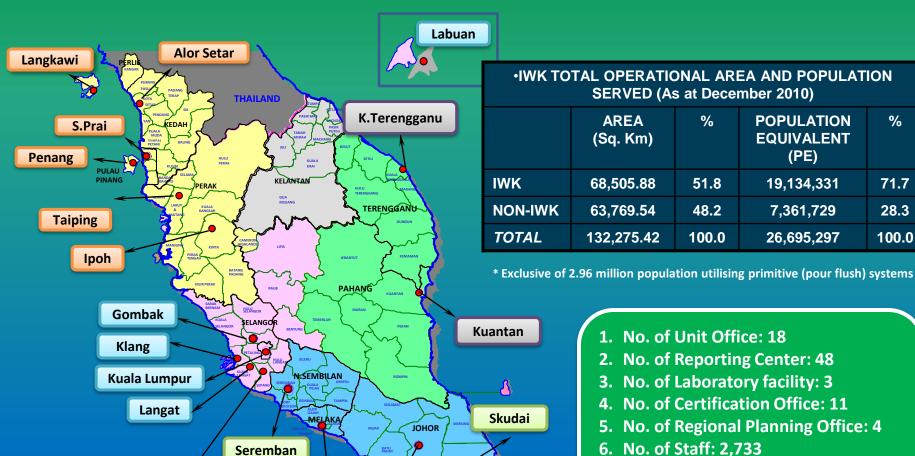
- 1. Sewerage Services
- 2. Operator in 88 Local **Authority Areas.**
- 3. Sewerage Services Billing & Collection.
- 4. Undertakes Refurbishment/ **Upgrading Projects Funded by Govt.**

Areas of IWK Coverage and Resources

Shah Alam

Melaka

Kluang



- 6. No. of Staff: 2,733
- 7. No. of Vehicle owned: 559
- 8. No of Local Authorities Served: 88

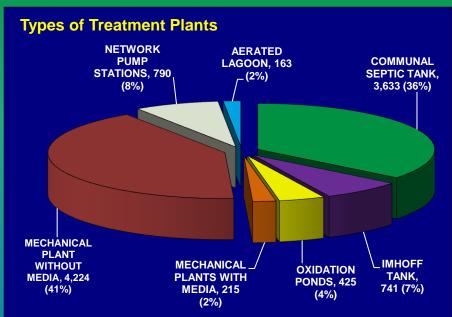
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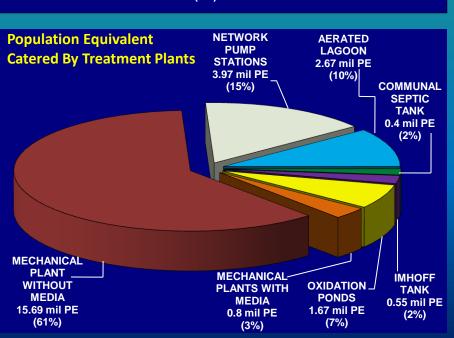
71.7

28.3

100.0

IWK's Assets and Population Equivalent Served







Communal Septic Tanks & Imhoff Tanks



Mechanical plants



Oxidation Pond



Aerated Lagoon



Pump Stations



ipe Network

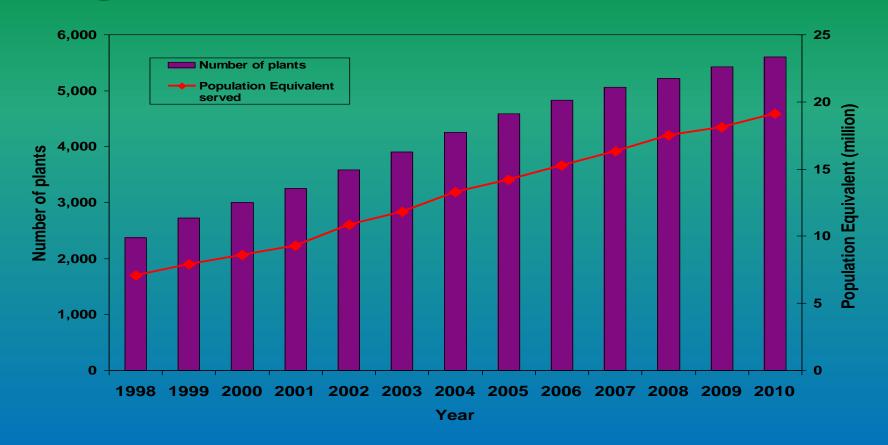
Total Connected Population Equivalent Served by IWK is 18.7 million (excluding CSTs & NPSs).



Individual Septic Tanks

Approx. 1.2 mil Individual Septic Tanks and Population Equivalent Served by IWK is 6.1 mil.

Sewage Treatment Plants Growth



- Lack of investment in building large/regional STPs by the Government has resulted in the proliferations of small plants in new developments by developers.
- On the average about 300 STPs are built by developers & handed over to IWK to operate and maintain each year. (83% of which are STPs less than 5,000 PE)

Improvements In Sewerage Services Since Federalisation (1994)



Operation & Maintenance (O&M) Improvements

- O&M expertise for varied sewerage systems
- Efficient desludging services and septage management
- Effluent Compliances that contributes to improved water quality.



Sustainable Sewerage Planning & Development for Infrastructure **Improvements**

- Develop Guidelines and Standards
 Nationwide Catchments Strategy
- Integrated Financing strategy for Sewerage development



Customer Service & Awareness Program for Sustainable Services

- Efficiently address operational complaints
- Improved Level of Service for customers
- Comperhensive Billing & Collection systems
- Communications and public outreach and education

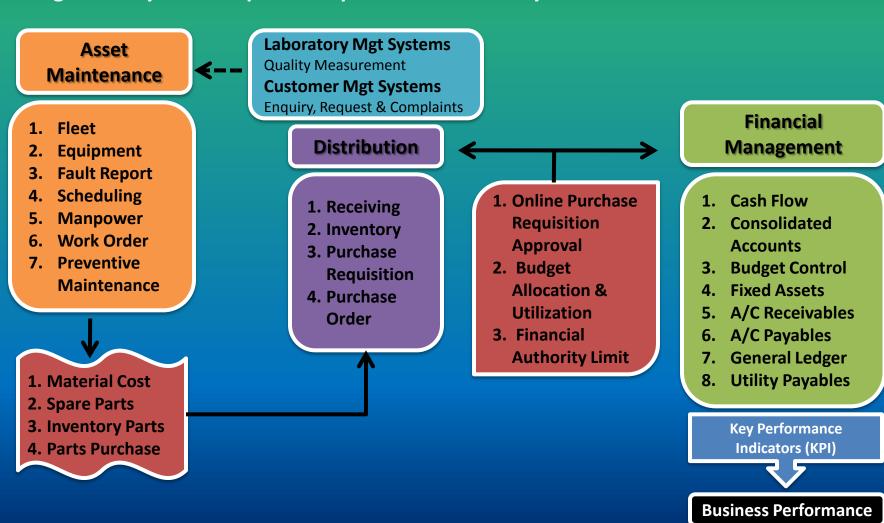


Creating Value For The Sewerage Industry

- R&D for operational improvements & sustainable services
- Training & Accreditation services to develop skilled and knowledgeable workforce

Total Asset Management System

An integrated Financial, Asset, Laboratory, Customer Operations Enquiry & Desludging Management Systems to provide operational efficiency



Capacity Building Initiative at International Level



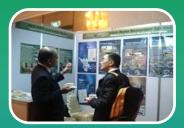
Capacity Building for Urban Environmental Company URENCO Halong City, Vietnam



REGIONAL WATER AND SANITATION WORKSHOP AND TRAINING -Developing Comprehensive Septage Management Programs in Asia



Twinning partnership with Perusahan Daerah Air Minuman (PDAM) Tirtanadi, Medan, Indonesia



Waterlinks Forum at Bangkok



Study visit by NGO bodies from various city of Philippines

Date Visit: 14 December 2006



Technical visit from Vietnam Coastal
City Environmental Sanitation Project
Date Visit: 5 – 7 October 2009



15th African Water Association Congress at Kampala Date: 15 – 18 March 2010



Study Visit from TAIZ Water & Sanitation Local Corporation, Yemen Date Visit: 22-26 January 2007



Study visit from Oman Wastewater Services Company Date Visit: 10-12 September 2007



Technical Study Visit by Iranian Delegates Date Visit: 13 November 2009



Technical visit by Philippine Department of Environment and Natural Resources

Southern Mindanao on 20th – 21st July 2010



Diagnostic visit to Jemshedpur Utilities & Services Company Limited, India on 7th – 10th December 2010



Workshop for Philippine Multiple-Recipient Water Operator Partnership on 9th – 11th November 2010



Twinning Partnership with Maynilad Water Services, Philippines on January-August 2010



Twinning Partnership with Hai Phong Drainage and Sewerage Company (SADCO), Vietnam on Mac 2010-Sept 2010

Total Priority CAPEX Required FY 2011 to 2013

No	Project Category	
Capex 1	Refurbishment / Upgrading / Rationalisation	
Capex 1a	Refurbishment / Upgrading / Rationalisation to meet Cat 2 and Cat 3 Standards	
Capex 1b	Brickwall Fencing to ensure safety and security	
Capex 1c	Rationalise priority plants identified within the JBIC catchment to increase operational efficiencies	
Capex 2	Rehabilitation of Critical Sewer Network	
Capex 2a	Rehabilitation of Critical Sewer Network / Force Main to solve operational issues	
Capex 2b	Sewer Profiling and Mapping to develop asset management plan	
Capex 3	Sludge Projects to meet current capacity/demand for sludge management*	
Capex 4	Pond Desludging to ensure compliance to Cat 2 requirements	

Phase 1 – Priority Needs Capital Expenditure Plan

Focus on Operational Enhancements and Compliance to Standards

- ✓ Refurbishment and upgrading of plants to meet new Category 1 standards;
- ✓ Sludge treatment facilities;
- Sewer rehabilitation program;
- ✓ Regionalistation and rationalisation in priority areas;

ltem	Description
Refurbishment and upgrading of STPs to Cat 1 Stds.	4,600 STPs
Sewer rehabilitation	1,300 km
Sludge treatment facilities	30 Nos
Regional sewerage facilities	26 Nos

Long Term Needs Capital Expenditure Plan

Meets all objectives for the Sewerage Industry

- Refurbishment and upgrading of plants to meet new
 Category 1 standards;
- Rationalisation and regionalisation of plants;
- ✓ Sewer rehabilitation program and connection of premises to network;
- ✓ Develop new plants and sludge treatment facilities and land acquisition;
- ✓ Convert pour flush to ISTs
- ✓ Increase sullage connection to sewer network

Item	Description
Infrastructure upgrading and rationalisation	7,141 STPs
Sewer rehabilitation	1,319 km
Sludge treatment facilities	63 Nos
Regional sewerage facilities	178 Nos
Backlog connection (incl. sewer reticulation)	552,244 properties
Conversion of pour flush to ISTs	836,470 properties
Sullage Connection	244,034 properties



Sewerage CAPEX Fundings Sources

Current major CAPEX Fundings:

- Malaysia Plan
- Funds via Government-to-Government arrangement

Potential Sources of Financial for CAPEX

- * Malaysia Plan
- * Government Grant
- * Bond
- * Sabah Credit Corporation
- Public Private Partnership / Private Finance Initiative







Moving Forward





NEW ENACTMENTS

Water Services Industry Act 2006(WSIA Act 655) and National Water Services Commission Act (SPAN Act 654) recently gazetted for enforcement

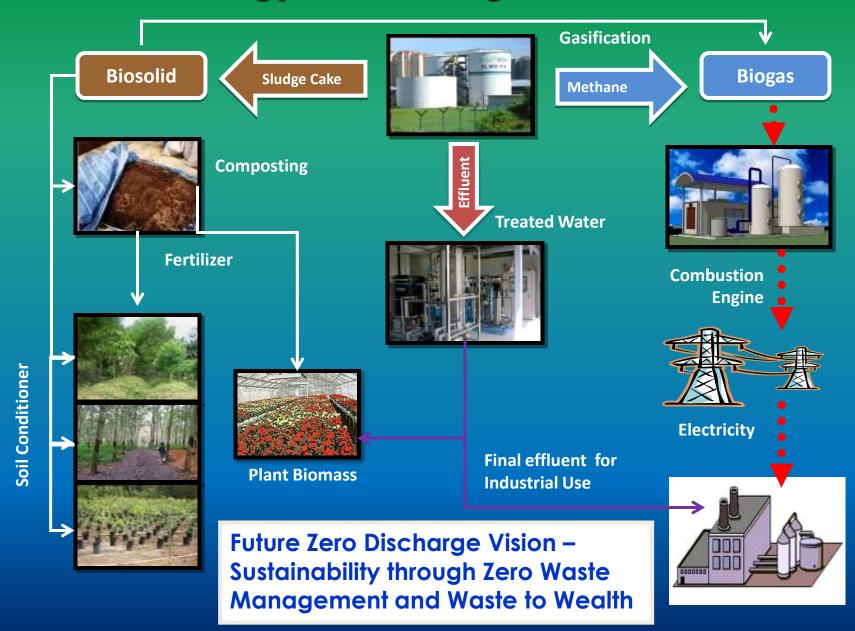
SPAN

New integrated regulator for water and wastewater services ("SPAN") was officially announced in February 07

WSIA

 WSIA offers resolution to critical issues for the sewerage industry such as billings & collection, refusal for individual septic tank desludging service and maintenance of private sewage treatment plants.

Green Technology For Sewerage Sector



Research & Development For Green Technology

To ensure a sustainable future, R&D initiatives will need to look beyond:

Sewage Treatment & Sludge Disposal

Recovery of Resources, such as Energy, Water and Nutrient for Reuse

Meeting Regulatory Requirements

Improved & Cost-efficient
Treatment Process

Fundamental Research

Applied Research

Bench Scale

Field Trials and Progressive uptake

Traditional & Institutionalized

Experimental & Innovative Approaches Towards Commercialization

Collaborative Approaches & Network Alliances

Opportunities of Joint **Efforts and** Assistance In **R&D** For Green **Technology Towards A** Sustainable

Independent Efforts Across
Institutional Domains

Strategizing R&D Initiatives

Improve Network & Alliances:

Policy to promote partnerships & knowledge sharing.

Guidelines & Code of Practice with Model collaborative contracts.

Establish routes & forms for dissemination.

Optimize Resources:

Dedicated funds for the wastewater sector 's priority areas.

Government subsidies for Pilot Projects in reuse.

Industry to provide test beds

Institutions to provide quality laboratory and analytical facilities.

Government

Private Organizations Industry

Academia

Promote Niche Expertise:

Academia to lead in Fundamental and Nationwide research.

Industry to actively promote applied, experimental and innovative activities.

Public sector inputs on socio-economics.

Research Commission:

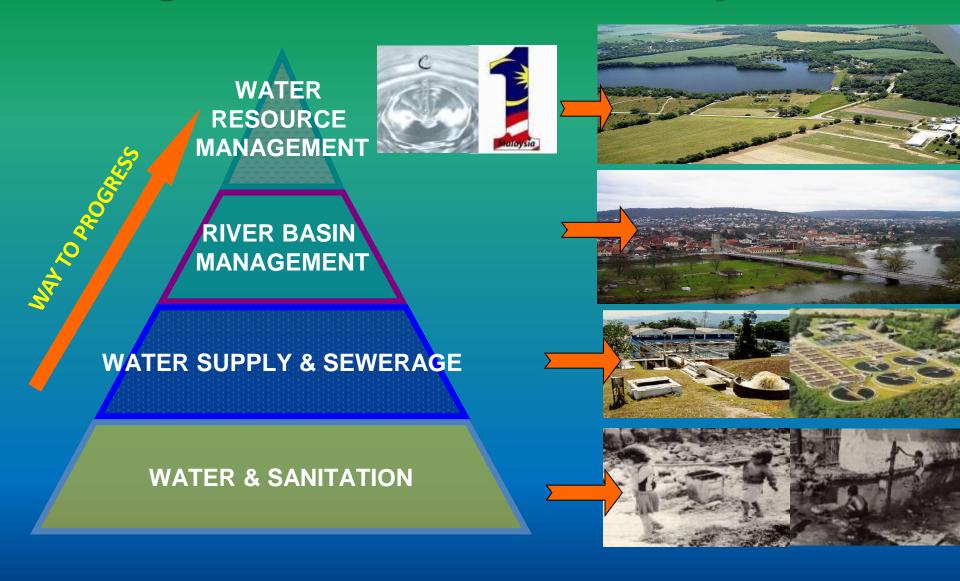
Prioritize R&D areas for the sector.

Manage dedicated funds, review proposals and award.

Manage dissemination routes and function as database depository.

Reward system for generation of IPs and Product commercialization.

Moving Towards 1 Water for 1 Malaysia



THANK YOU

For further enquiries kindly contact:

DATUK IR ABDUL KADIR MOHD DIN

Chief Executive Officer
Indah Water Konsortium Sdn Bhd

Email: <u>akadirmd@iwk.com.my</u>

www.iwk.com.my



A Presentation for the PPP Council for Overseas Water Infrastructure

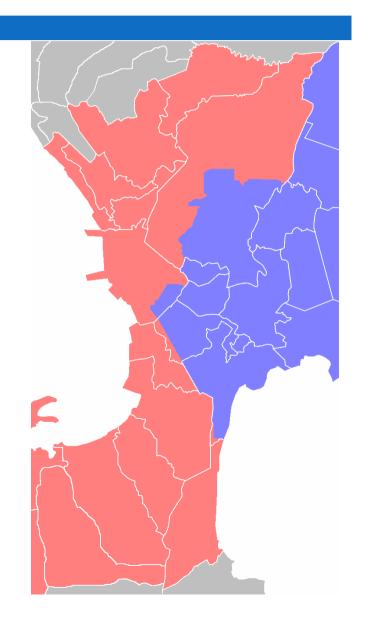
by Ramon Alikpala, Chairman

Metropolitan Waterworks and Sewerage System (MWSS)

DEVELOPING NEW WATER SOURCES FOR METRO MANILA

The Metropolitan Waterworks and Sewerage System (MWSS)

- The largest water privatization project in the world
- Services water supply and sewerage requirements of approximately 15 million people



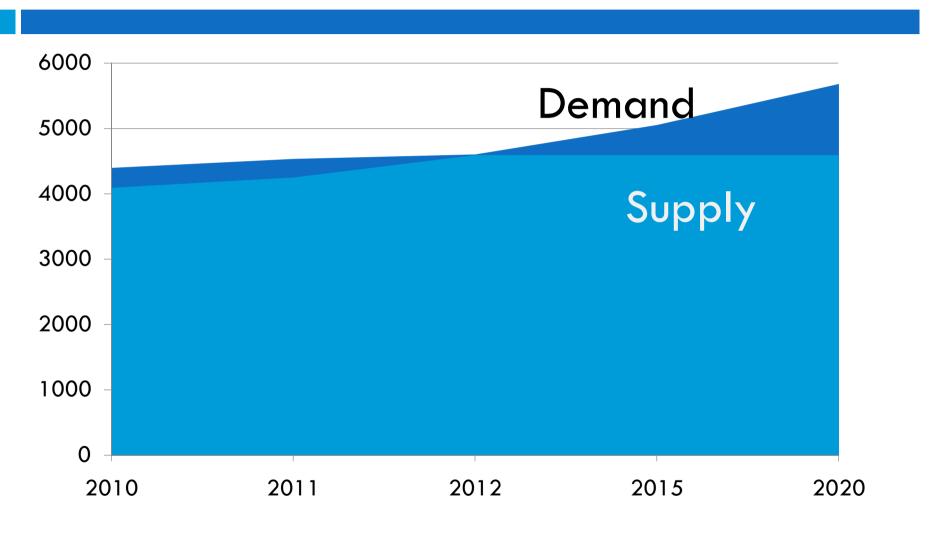
MWSS Priorities for Next 6 Years

- Development of New Water Sources
- 2. Development of Replacement Source for Irrigation

1. Development of New Water Sources

- Angat Dam the only present source of water supply for the MWSS service area serving a total of 13 million population out of the total service population of 15 million, or only 87% total service coverage.
- Angat Dam provides a supply volume of 4,000 million liters per day (4,000 mld) out of the present demand of 4,395 mld, or a deficit of 395 mld.
- By 2015, the projected demand is expected to reach 5,054 mld, thus requiring the development of supplementary sources of water to address the increasing demand.

Current Supply – Demand Projections (MLD)



Potential Sources

Source	Potential Volume	Estimated Cost
Kaliwa River	550 MLD	US\$510 M
Laiban	1,900 MLD	US\$1,450 M
Kanan River	3,270 MLD	US\$1,370 M
Laguna Rivers	300 MLD	NA
Wawa River	50 MLD	US\$100 M
Laguna Lake	500 MLD	NA

1. Development of New Water Sources Current Status

- World Bank has committed to undertake a study for MWSS to:
 - to validate water demand projections
 - to undertake the necessary updating, comparative evaluation and prioritization of the various new water sources identified, in order to come up with a new road map;
 - to prepare the first priority project biddable by 2012.
- □ For implementation in late 2011 or early 2012

2. Development of Replacement Source for Irrigation

- Angat Dam is a multi-purpose facility serving domestic water supply, power supply and irrigation water.
- MWSS' present water allocation in the Angat Reservoir:

Original Allocation	=	22.0 cms
Conditional Allocation from Irrigation water rights		1 <i>5</i> .0 cms
Umiray-Angat Transbasin Tunnel	=	9.0 cms
TOTAL	=	46.0 cms
	or	4,000 mld

 Due to increasing water use conflicts between water supply and irrigation, a new irrigation source must be developed

Potential Sources

Source	Potential Volume	Estimated Cost
Apalit-Pampanga River	20 CMS	US\$ 110 M
Pampanga River	20 CMS	US\$ 110 M
Candaba	15 CMS	US\$ 220 M
Balintingon	17 CMS	US\$ 440 M

2. Development of Replacement Source for Irrigation Current Status

- Technical Working Group (TWG) composed of MWSS, NIA and the Concessionaires (Maynilad and Manila Water) is preparing a Memorandum of Understanding (MOU) for the joint undertaking of the Project (re: 15 CMS Water Source Development Project);
- ☐ The TWG will undertake study
 - □to evaluate the most viable and best alternative replacement source;
 - □to prepare the selected source biddable by 2012.

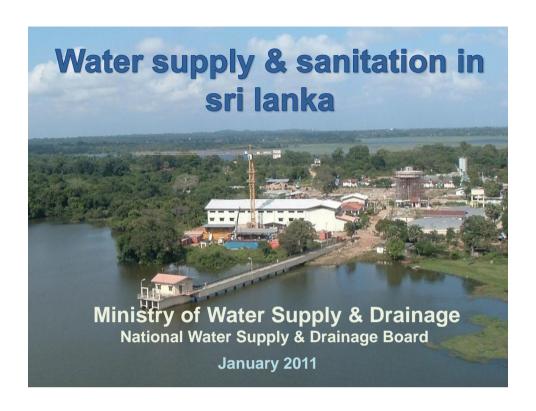
Summary

Moratorium

While unsolicited proposals have been received, the MWSS Board recently approved a moratorium on the processing of further proposals.

World Bank Study

- World Bank is funding a comprehensive study to determine demand requirements. The study is also expected to identify the optimal source based on economic, environmental, social, and demand considerations.
- New government policy for preference on solicited proposals



Introduction of the Country:

Geographical area - 64,000 Sq. km

Population - 20 million

Ethnic - Sinhala - 73.9%

Tamil - 18.2%

Muslim - 7.1%

Others - 0.8%

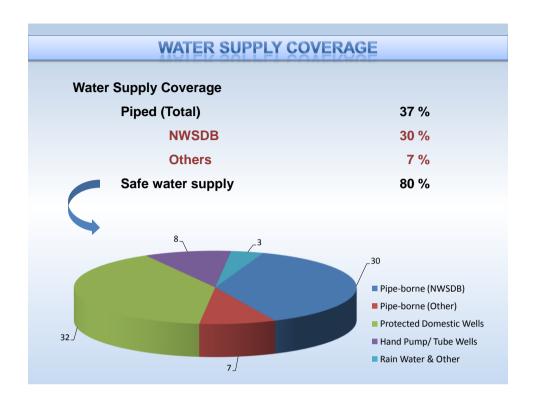
Main Religions

Buddhism, Hindu, Islam & Catholic

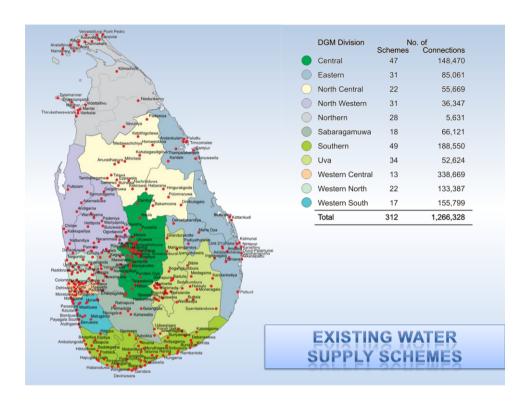
GDP - US\$ 2365 per capita

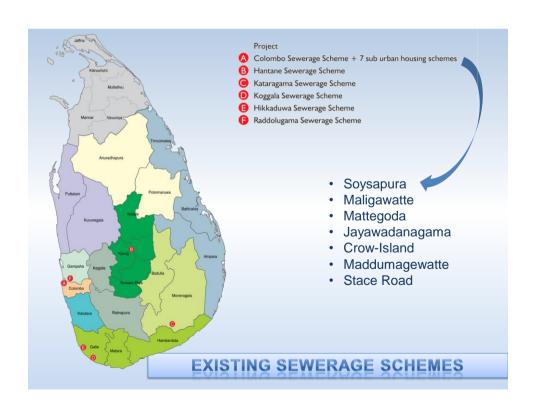






	Actual	NWSDB	MDG	MDG
	2009	Target	Target	Target
		2011	2015	2025
Water Supply Coverage				
Piped (Total)	37 %	41 %		
Safe water supply	80 %		85 %	100 %
Sewerage Coverage				
Piped	2.5 %	3 %		
On-site Sanitation	83.2 %			
Adequate Sanitation	85.7 %		87 %	100%



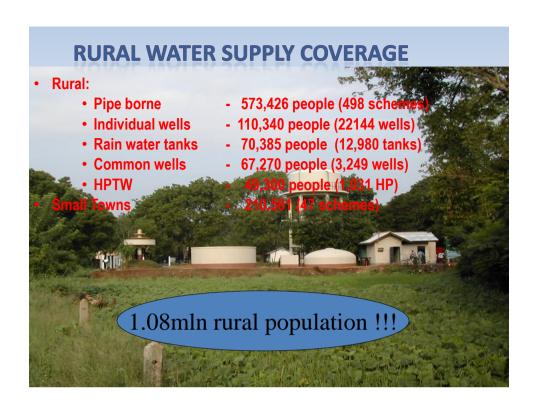


RURAL WATER SUPPLY POLICY;

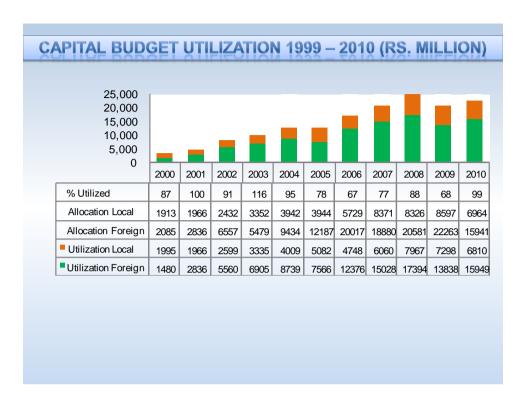
- Water is a basic human need, which warrants for equitable allocation.
- Water has an economic value
- Provision of WSS should be people centred and demand driven.
- Beneficiary Involvement, Decision
 Making and Participatory Planning
- Women should play a central role in decision making process.

RURAL WATER SUPPLY & SANITATION

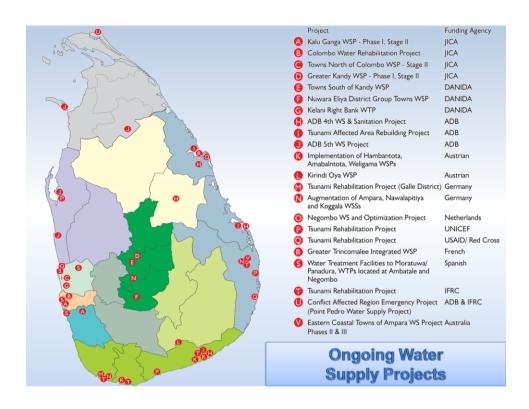
- · Large-scale community participatory rural water supply projects
- ADB Assisted 3rd Water Supply & Sanitation Sector Project
- Secondary Towns and Community Based Water Supply & Sanitation Project
- More than 3,000 small-scale RWSSs were constructed by various government and non-governmental organizations
- They provide water to about 8% of total population of Sri Lanka.
- NWSDB established 17 RWS units attached to regional offices to provide necessary backup support for communities who run their own WSSs
- Identified another 4 Districts to establish RWS units
- Proposed a mechanism for assets transferring system for RWS schemes
- Identify a Water quality surveillance program for RWS schemes







Large-scale Water Supply Projects	
	22
Large-scale Sewerage Projects	4
Small & Medium Water Supply Projects	38
Reconstruction Tsunami effected Water Supply	/ Project 5
Total	69



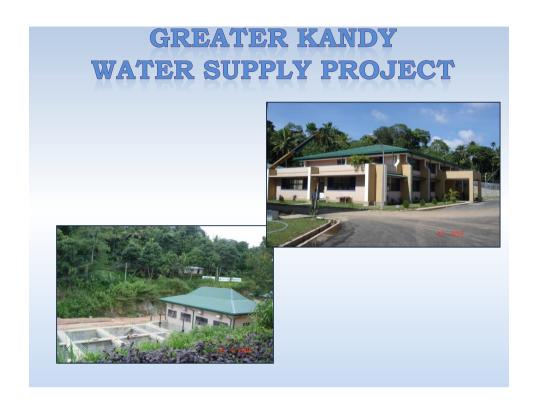
NO OF FOREIGN FUNDED WATER SUPPLY PROJECTS ON GOING: 22

Expected Population to be served : 2,628,000

Total Cost Rs. 174,658 million

Foreign Component Rs. 123,751 million

Local Component Rs. 50,907 million

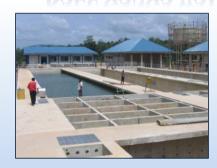








KALU GANGA WATER SUPPLY PROJECT



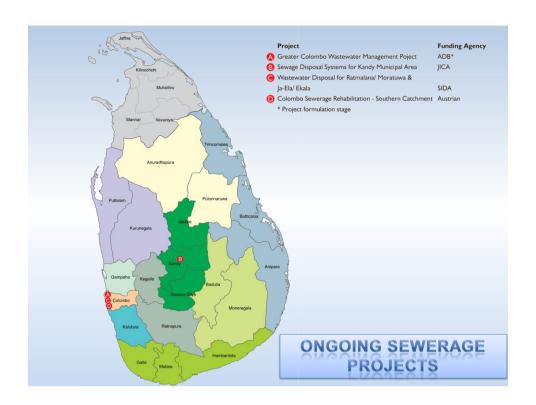


TOWNS NORTH OF COLOMBO WATER SUPPLY PROJECT









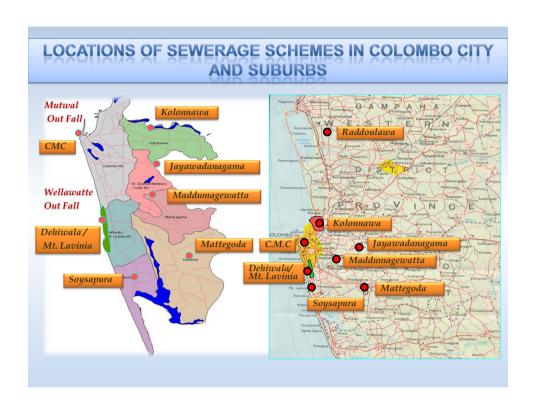
NO OF FOREIGN FUNDED SEWERAGE PROJECTS ON GOING: 4

Expected Population to be served: 1,761,200

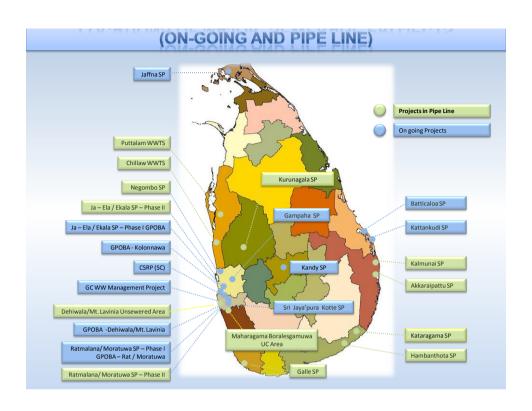
Total Cost Rs. 27,715 million

Foreign Component Rs. 20,141 million

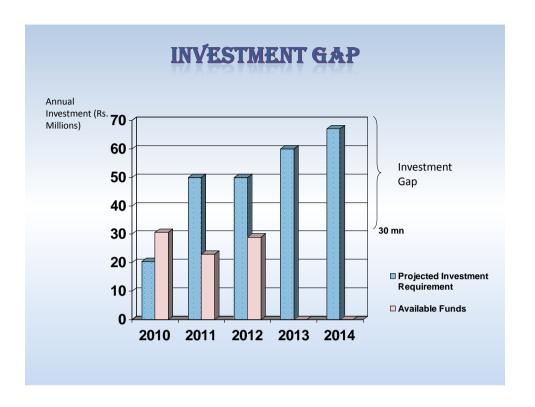
Local Component Rs. 7,574million











INVESTMENT - STRATEGIES

- Establishment of a Separate Unit to monitor and assess the financial and economic viability of the Project and to monitor the investment and financial forecasting.
- This Separate Unit to be assigned to assess the financial implications to the NWSDB of all investments to be undertaken.
- The Separate Unit shall analyze and recommend all possible investment alternatives.
- Special emphasis to be given towards development of low cost (*low per capita investment*) solutions to achieve sector targets.
- Harnessing private capital to the sector through BOO/BOOT type PPP arrangements.



MINISTRY OF CONSTRUCTION VIET NAM

PUBLIC – PRIVATE PARTNERSHIP IN THE FIELD OF INFRASTRUCTURE

Dr. Nguyễn Hồng Tiến

Hà Nội, January 2011

Before implementing PPP pilot projects in Vietnam, there have been projects that were implemented by some model such as: BOT, BT or BTO in some areas such as:

1. Transport project:

- Road way:
- + Hanoi Hai phong highway (BOT).
- + Hanoi Thai nguyen.
- + Cau Gie Phap Van.
- + Nguyen Van Linh Boulevard (BT).
- + An Suong An Lac Route (BOT).
- Bridge:
- + Phu My Bridge.
- + Rach Mieu Bridge.

2. Electricity projects:

- + Phu My 2 thremo-electricity
- + Phu My 3 thremo-electricity
- + Can don Hydroelectricity plant
- 3. Urban technical Infrastructure field: focusing on water supply area:
- + Thu Duc water plant
- + Dong Tam water plant Tien Giang Province.

Some of remaining and difficulties when implementing BOT, BT projects

- 1. Most of projects applied form of assigning investors Therefore reducing competition.
- 2. Using Government budget mostly (transport projects).
- 3. Mechanism and Policy unstable.
- 4. Task of repaying clearing the ground does not meet demands.
- 5. Measurement of mobilizing fund, promoting strength of communities for building up infrastructure basis is limited.
- 6. The cost, selling and buying price depends on Government's regulations...

Current difficulties and obstacles on attracting economic backgrounds to invest in water sector:

Sequence and procedure of investment: Some State enterprises running ineffectively but being protected caused exclusive rights on managing areas of supplying water – sector service that cause some difficulties to seek and set up investment projects.

Fund and resource to invest: Lack of loaned capital; sequence and procedure between Vietnamese Government and Donors....remaining differences; combination amongst Ministries, Organizations, local government is not effective.

Current difficulties and obstacles on attracting economic backgrounds to invest in water sector:

The cost of clean water and wastewater tariff: The cost of clean water is decided by the People Province Community (PPC) meanwhile principle of clean water cost has to be counted correctly and accordant with customers' budget and effort that is not now implemented...Therefore, the government budget has been compensating to ensure the cost for operating, remaining and repairing...

Land policy: unstable, clearing the ground, resettling, varying cost...making total investment cost increase higher than the beginning.

Decision No 71/2010/QD-TTg dated 11 September 2010 (regulation on piloting investment according to ppp model)

Principles for piloting investment under publicprivate partnership

- 1. Achieving the goal of attracting private and foreign investment in infrastructure development to provide public services.
- 2. Privately-owned capital contribution to the Project shall include the investor's equity, commercially viable capital funded by domestic and international sources, and any other capital sources to be mobilized subject to the principle that public debts will not occur.

Decision No 71/2010/QD-TTg dated 11 September 2010

- 3. Investor's equity capital must account for at least 30% of the privately-owned investment in the Project. Investor can obtain fundings from commercial loans, and from other sources (without Government guarantee) to the maximum being 70% of the privately-owned investment in the Project.
- 4. Investors implementing the Project shall be selected on a competitive, fair, transparent, economic efficiency basis, in compliance with Vietnam's laws and international customs and practices.

Areas of piloting investment under publicprivate partnership

- 1. Roads, bridges, tunnels, ferry.
- 2. Railway, railway bridges, railway tunnels.
- 3. Urban transport.
- 4. Airports, seaports, river ports.
- 5. Water supply system.
- 6. Power plant.
- 7. Healthcare (hospitals).
- 8. Environment (Solid waste treatment plants).
- 9. Other infrastructure development and public services supply projects as decided by the Prime Minister.

Tendering for selection of an investor

1. Based on the approved Feasibility study report, the authorized State body shall organize the preparation of tender invitation dossiers and hold open domestic or international tendering to select the project implementing investors. Tendering shall be in compliance with legal regulations on tendering and in accordance with international practices and customs, ensuring competition, fairness, transparency and economic efficiency.

Tendering for selection of an investor

- 2. The tender invitation dossier includes details of proposal evaluation criteria, bidding procedures, draft Project Contract, attached with the approved Feasibility study report, the proposed State Contribution in the Project, proposed investment guaranty mechanism of the Project.
- 3. The Authorized State Agency shall organize appraisal of investor selection result, invite opinions of Ministry of Planning and Investment before approval of investor selection result pursuant to the prevailing regulations.

Water supplying works that were determined in the planning should be called upon to invest following PPP model

- 1. Dicision No 2065/QD-TTg dated 12/11/2010 on approving the water supply plan for key region Mekong delta area. Water Plants that are planned for serving inter-regions level.
 - Song Hau I Water Plant: Capacity of phase 1: 500,000 cubic meter per day-night; phase 2: 500,000 cubic meter per day-night, located in Can Tho city.
 - Song Hau II Water Plant: phase 1: 1,000,000 cubic meter per daynight, phase 2: 2,000,000 cubic meter per day-night in Chau Thanh - Long An.
 - Song Hau III Water Plant: phase 1: 200.000m3/day-night; phase 2: 500.000m3/day-night in Chau Doc An Giang

2. According to Master Plan of building Hanoi capital:

Song Hong Water Plant: Expecting to be build at Lien trung commune – Dan Phuong district: capacity in 2020: 300.000m3/day-night; 2030 is 450.000m3/day-night (Opacity of Hong River Surface Water is at high level. Therefore, it is necessary to build primary accumulation ponds to deposit sediment and store water).

Water supply scale: for inner-areas of Hanoi and Melinh, Dong Anh districts and a part of urban areas along the Belt 3 and Belt 4

• THANHK YOU FOR YOUR ATTENTIONS