

## **ASEAN IWRM PERFORMANCE REPORTS & MONITORING INDICATORS**

### **Singapore 2013 Report (Water Supply Management)**

#### **Outcome Indicators**

<b>IWRM Issue 1 - Water Supply Management (34 indicators)</b>			
<b>Indicator Types</b>	<b>Indicators</b>	<b>Progress</b>	<b>Description</b>
<b>Outcome Indicators</b>	1. Percentage of population having access to piped drinking water	100 %	See Note 1 in 2010 report
	2. Percentage of water delivered to customer meeting WHO guidelines for drinking water quality	100 %	See Note 1 in 2010 report
	3. Average hour of water supplied/day	24 hr/day	See Note 1 in 2010 report
	4. Per capita domestic water consumption	151 l/c/day	See Note 2 in 2010 report
	5. Percentage of water supply metered	100 %	
	6. Percentage of UFW/NRW	5.2 %	See Note 3 in 2010 report

#### **Enabling Environment Indicators**

<b>EE Indicators</b>	1. Any "Policy" on water supply management	8	
	2. Any "Legislation/Regulations" on water supply distribution management	8	
	3. Any "Legislation/Regulations" on water supply quality management	Yes (8) No (1-7) NA	See Note 1 in 2010 report
	4. Any "Legislation/Regulations" on water conservation management	8	See Note 2 in 2010 report
	5. Any "Financial framework and Financing plans" for development of water supply	8	See Note 3 in 2010 report
	6. Any "Operator business plan" (Annual Budget, Manpower resource plan, etc.)		

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### Institutional Set-up Indicators

<b>IS Indicators</b>	1. Any water supply planning and policy department	8	See Note 1 in 2010 report
	2. Any water supply quality office, water testing lab, water sampling team		See Note 2 in 2010 report
	3. Any water supply operation centre	Yes (8) No (1-7) NA	See Note 2 in 2010 report
	4. Any water conservation unit		See Note 2 in 2010 report
	5. Any water meter management unit		See Note 2 in 2010 report
	6. Any customer account/meter reading/billing unit		See Note 2 in 2010 report
	7. Any water meter workshop		See Note 2 in 2010 report
	8. Any water leak detection unit		See Note 2 in 2010 report
	9. Any 24-hr water supply call centre		See Note 2 in 2010 report
	10. Any water supply network maintenance unit		See Note 2 in 2010 report
	11. Any water supply meter management unit		See Note 2 in 2010 report
	12. Any water supply EMI unit		See Note 2 in 2010 report

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### Management Tools Indicators

<b>MT Indicators</b>	1. Any short and long term water demand projection and infrastructure development plan	Yes (8) No (1-7) NA	See Note 1 in 2010 report
	2. Any water safety plan – e.g. water sampling programme, water testing lab, real time monitoring of water quality at water treatment plants and service reservoirs		See Note 2 in 2010 report
	3. Any water supply pressure monitoring system – e.g. pressure sensor/ monitoring in network, flow and level monitoring at service reservoirs, waterworks outputs		See Note 3 in 2010 report
	4. Any water conservation plan – e.g. water saving measures, public education programme	8	See Note 4 in 2010 report
	5. Any water supply meter installation plan – e.g. all new premises must be metered		See Note 5 in 2010 report
	6. Any monitoring of water treatment plant output meters – e.g. all are metered and the meters are checked periodically		See Note 5 in 2010 report
	7. Any water meter management system – e.g. comply with ISO/EU standard, error check system, meter replacement programme, meter repair and testing facilities		See Note 5 in 2010 report
	8. Any water supply network record /mapping system, network asset management and pipeline replacement/ renewal programme		See Note 6 in 2010 report
	9. Any water supply leak detection programme		See Note 7 in 2010 report
	10. Any 24-hour Call Centre and Operation Centre for feedback on leak and deployment of crew for repair		See Note 8 in 2010 report