

ASEAN IWRM PERFORMANCE REPORTS & MONITORING INDICATORS

Indonesia 2013 Report (Stormwater Management)

Outcome Indicators

IWRM Issue 3 - Stormwater Management (14 indicators)			
Indicator Types	Indicators	Progress	Description
Outcome Indicators	1. Percentage of local authorities/cities having a stormwater management policy to manage flash floods	1.16 %	Only 6 from 514 local authorities that have a stormwater management policy, they are 5 DKI Jakarta districts (west, east, north, south, and central) and Surabaya local authorities.
	2. Percentage of local authorities/cities having a stormwater quality management policy to protect river/drainage system water quality	1.16 %	Only 6 from 514 local authorities that have a stormwater management policy, they are 5 DKI Jakarta districts (west, east, north, south, and central) and Surabaya local authorities.
	3. Percentage of local authorities/cities having a rainwater harvesting policy	100%	Rain water harvesting policy described in Presidential Decree nr. 33 of 2011 on the national policy of water resources management, and has been organized on a national scale (not available at a local policy). (See Note 1)

Note 1 - In Presidential Decree Nr. 33 of 2011 regarding the national policy of water resources management, explained about the increasing efforts in rainwater harvesting through the construction and maintenance of rainwater, and increasing efforts to excess water storage in the rainy season by improving and maintaining the presence of water resources and the availability of water in accordance with the functions and benefits, through the maintenance and construction of reservoirs and ponds.

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Enabling Environment Indicators

EE Indicators	1. Any “Policy” on stormwater management	Yes (8)	Effectiveness of Output is monitored and evaluated Peraturan Pemerintah No. 42 Tahun 2008 tentang Pengelolaan Sumber Daya Air (Government Regulation Nr. 42 of 2008 regarding Water Resources Management)
	2. Any “Legislation/ Regulations” on stormwater management	Yes (8)	Effectiveness of Output is monitored and evaluated UU RI No. 7 Tahun 2004 tentang Sumber Daya Air (Law of Indonesia Nr. 7 of 2004 regarding Water Resources) <i>(See Note 1)</i>
	3. Any “Financial framework and Financing plans” for stormwater management	Yes (8)	Effectiveness of Output is monitored and evaluated for Indonesia as a country, the financial frameworks and plans are described in the APBN (National Budget for Revenue and Expenditure). But especially for the capital Jakarta, financial frameworks and plans are also describe in the APBD (Local Budget for Revenue and Expenditure)

Note 1 - The reduction of water damage aimed to alleviate the suffering caused by the disaster include the reduction of disaster damage as a result of water damage which is implemented by the relevant agencies and the public, and coordinated by the national disaster management agencies, provincial, or district / city in accordance with the laws and regulations . Provisions regarding disaster prevention and damage due to water damaged power regulated further by government regulation

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Institutional Set-up Indicators

IS Indicators	1. Any national agency entrusted with the responsibility to support local authorities/cities to manage stormwater	Yes (8)	Effectiveness of Output is monitored and evaluated the agencies who manage the stormwater regulatory are BNPB (Indonesian National Board for Disaster Management) and Dirjen SDA Kementrian PU-PR (Directorate General of Water Resources, The Ministry of Public Works and Housing).
	2. Any formal institutional arrangements among related agencies to support local authorities/cities to manage stormwater	Yes (8)	Effectiveness of Output is monitored and evaluated the arrangements are being held by BNPB <i>(See Note 1)</i>

Note 1 - In December 2013, there is a formal institutional arrangement among related agencies (PB MLITT and BNPB) regarding Disaster Management Collaboration Dialogue - Information and technology - Cooperation on tsunami, earthquake, flood, sediment disasters and volcanic disasters.

Management Tools Indicators

MT Indicators	1. Any national stormwater management master plan	Yes (8)	Effectiveness of Output is monitored and evaluated national stormwater management master plan is one of the segments of water resources management master plan
	2. Any code of practices/design manual for	No (4)	Existence of a plan to produce the Output.

Source: ASEAN Working Group for Water Resources Management (AWGWRM) – April 2015
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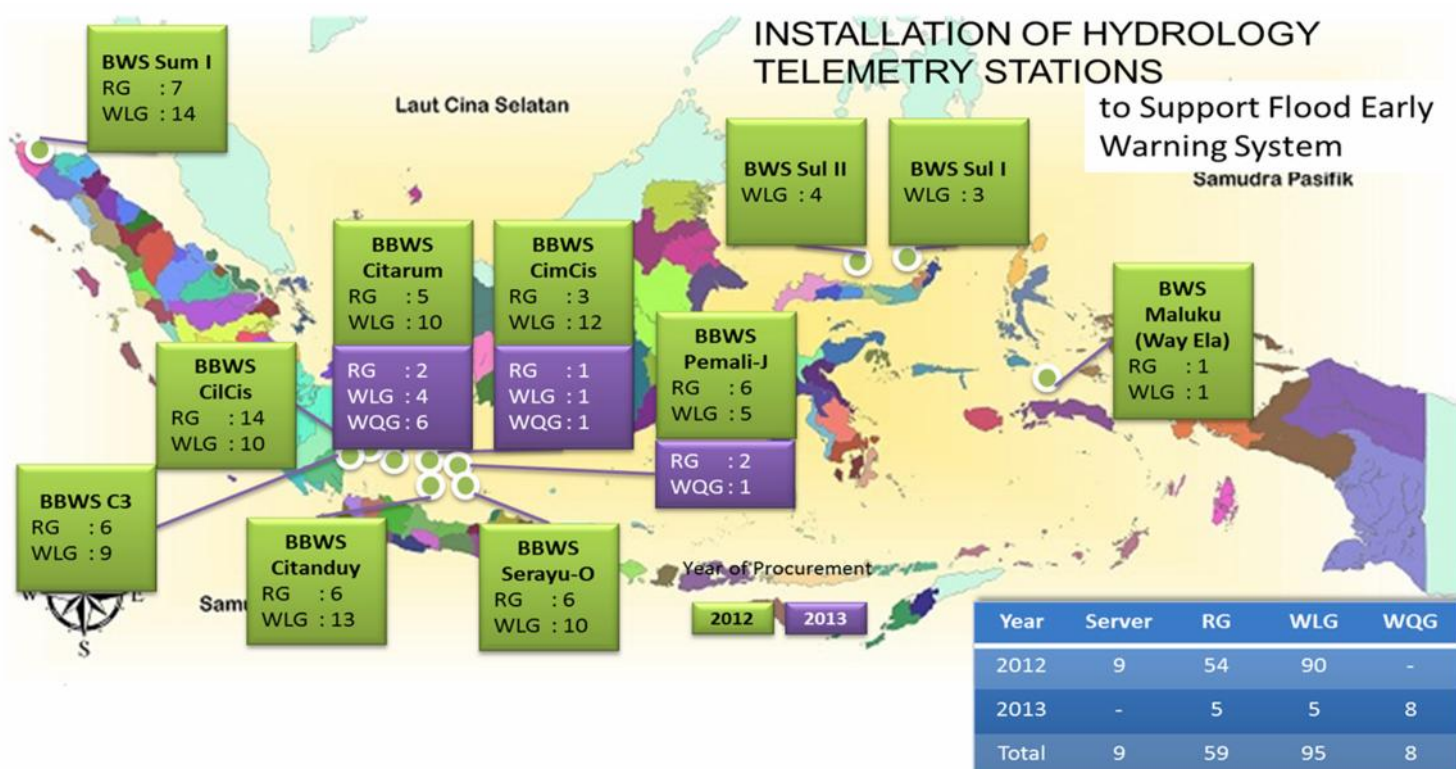
	stormwater management		This manual guide is still in preparation
	3. Any computer modeling of stormwater quality and quantity	Yes (8)	<p>Existence of a plan to produce the Output.</p> <p>the modeling is set to Reducing Risk from Disasters and also to Strengthen the Indonesian Resilience, and created by:</p> <ol style="list-style-type: none"> 1. BPPT (Agency For The Assessment And Application Of Technology) 2. LIPI (Indonesian Institute of Science) 3. ITB (Bandung Institute of Technology) 4. UGM (Gajah Mada University)
	4. Any urban stormwater flood warning system/telemetric system	Yes (8)	<p>Existence of a plan to produce the Output.</p> <p>There are Automatic Water Level Recorder Telemetry (AWLR) Systems that have been installed in specified and particular locations. The AWLR stations are regulated by The Ministry of Public Works and Housing Regulation Nr 05/PRT/M/2009, regarding Guidelines on Procedures for the Development of the Guessing Console In River / Channel Open Water Station</p> <p style="text-align: center;"><i>(See Note 1)</i></p>
	5. Any integrated stormwater management data center	Yes (8)	<p>Existence of a plan to produce the Output.</p> <p>Organized by National Agency for Disaster Management (Badan Nasional Penanggulangan Bencana– BNPB)</p>

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	6. Any 24-hour Call/Feedback Centre for reporting flash floods	Yes (8)	Existence of a plan to produce the Output. Organized by National Agency for Disaster Management (Badan Nasional Penanggulangan Bencana– BNPB) <i>(See Note 2)</i>
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Note 1 -



Note 2 - The management data center and 24-hour Call/Feedback Centre can be reached at <http://geospasial.bnpb.go.id/pantauanbencana/>

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