**Sector Outcomes, Indicators and Targets – Water and Sewerage**

**Ministry of Housing and Environment and Environmental Protection Agency**

**26 May 2011**

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| **Sector Outcome** | **Results Indicators** | **Indicator Type** (Event/Op/  Oc./Imp) | **Unit of Measure** | **Baseline** | **Targets/ Achievements** | | | | | | **Lead Agency** |
|  | **2009** | **2010** | **2011** | **2012** | **2013** |  |
| 1. Access to safe drinking water improved, including vulnerable groups **P1** | 1. Water network developed **(P1,S2) (P1,S3)** | Output | Islands provided with water network | Male’ City and Sh. Komandoo | Target | **3** | **10** | **10** |  |  | **MHE/Utilities/EPA** |
|  |  |
| Ach. | **0** | **1** | **2** |  |  |
| 1. Rainwater storage capacity on islands improved **(P1,S2)** | Outcome | No. of households with provision of rainwater storage tanks (2500 ltrs.) | 60% of islands covered with rainwater storage tanks  (2006-2010) program. | Target | **80** | **100** |  |  |  | **MHE** |
| Ach. | **80** | **100** |  |  |  |
| Rainwater storage capacity on islands improved **(P1,S2)** | Output | No. of islands provided with community tanks | N/A | Target | **N/A** | **N/A** | **52** |  |  | **MHE/utilities** |
| Ach | **N/A** | **N/A** |  |  |  |

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| 2. Drinking water safety measures improved **P9** | 1. A drinking water safety plan developed **(P9,S2) (P2,S3)** | Output | Event | No water safety plan exists | Target | **N/A** | **N/A** | **Proposal sent to WHO for Funding** | **Draft water safety plan** |  | **MHE/EPA** |
| Ach. |  |  |  |  |  |
| 1. Water quality testing facilities increased in outer atolls **(P9,S1)** | Output | Percent of islands in outer atolls with WQ testing facilities | No Testing Facilities in outer atolls | Target | **N/A** | **N/A** | **10%** |  |  | **EPA** |
| Ach. |  |  |  |  |  |
| 1. Emergency water supply response improved **P2** | 1. Outer atolls where facilities developed with water stocks for use during emergencies / disasters increased   **(P2,S1) (P2,S3)** | Outcome | Percentage of islands/atoll developed with water stock facilities for water supply in emergency response | 25% islands emergency desalination plants installed and community water tanks installed (Data – N/A) | Target | **25%** | **15%** | **35%** | **Targets cannot be set as utility companies are mandated for its provision** | **Targets cannot be set as utility companies are mandated for its provision** | **MHE/Utilities/Secretariat Council** |
| Ach. | **25%** | **10%** | **Targets cannot be set as utility companies are mandated for its provision** |  |  |
| 1. Establishment of water stocks in the designated 7 regions of the country **(P2,S1) (P2,S3)** | Output | No. of regions with emergency water stock (rainwater tanks/desalinated water)/ No. of islands with desalination plants and equipments for emergency water supply. | **-** | Target | **N/A** | **N/A** | **Proposal id being prepared for designated 6 regions** |  |  |  |
| Ach. | **N/A** | **N/A** |  |  |  |
| 1. Access to sanitation facilities improved **P1** | 1. Islands with improved sewerage facilities increased **(P1, S1) (P1,S3)** | Impact | Number of islands with improved sewerage systems | 10 islands were implemented with improved sewerage systems (2005-2008) | Target | **13** | **10** | **13** |  |  | **MHE/utilities** |
| Ach | **5** | **8** |  |  |  |  |

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| 1. Effective operation and maintenance procedures established for water supply and sanitation system **P3** | 1. Local councils and utilities engagement in operation, maintenance and management of water supply and sewerage increased.   **(P3,S1)** | Output | Number of local councils and utilities officially engaged OM&M of water supply and sewerage | MWSC Only | Target | **N/A** | **6 utilities, and local councils** | **No change** | **No change** | **No change** | **MHE** |
| Ach. | **N/A** | **6 utilities, and local councils** | **No change** | **No change** | **No change** |
| 2. Water supply and sanitation projects operationalised with renewable energy sources, increased **(P3, S2)** | Output | Number of water supply projects operational with renewable energy sources | No water supply and sanitation projects implemented with renewable energy sources | Target |  |  | **5** | **10** | **20** | **MHE** |
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| 1. Private Sector Investment in the water and sanitation sector increased **P4** | 1. An incentive scheme established for promoting private sector investment **(P4,S1)** | Event | Promoting interest of private institutes on water and sewerage sector | **Limited private sector** | Target | **N/A** | **N/A** | **Contractor Finance scheme developed** | | **Promote wider participation to contractor finance and other incentive schemes** | | **Promote wider participation to contractor finance and other incentive schemes** | | **MHE** |
| Ach. |  |  |  | |  | |  | |
| 1. Institutional Capacity covering technical, legal financial and human resource needs strengthened to enhance sector performance **P5** | 1. Regulatory Capacities in legal, technical, financial and human resources strengthened **(P5, S2)** | Output | Number of qualified locals working in the government | **Limited qualified people working in the Sector (GOV) undergraduate level and higher))** | Target | **N/A** | **7** | **5** | | **5** | | **5** | | **MHE** |
| Ach. | **N/A** | **7** |  | |  | |  | |
| 1. Structures, systems and functions of responsible agencies and capacity of staff strengthened **(P5, S2)** |  |  |  | Target |  |  |  | | **Review and revises institutional systems/structures to mainstream GESI**  **Build capacity of staff on GESI mainstreaming** | | **Review and revises institutional systems/structures to mainstream GESI**  **Build capacity of staff on GESI mainstreaming** | |
| Ach. |  |  |  | |  | |  | |
| 1. Development of research facilities specialized in water and sanitation field **(P5, S3)** | Output | Number of institutions facilitating research programs locally/ Number of students studying water and sanitation related courses in Maldives | No water and sanitation related courses |  | N/A | 20( Bach. Of Environmental Management, MEMP, initiated in 2010) | | 20 ( Bach. Of Environmental Management, MEMP, continuation) | | 20 ( Bach. Of Environmental Management, MEMP, expected to end in 2010) | | 20 | MHE/EPA |
|  | N/A | 20 | |  | |  | |  |
| 1. Alternative water supply schemes for Agricultural and Industrial activities made available **(P5, S4)** | Output | Number of schemes operational | Limited options | Target | N/A | N/A | | N/A | | 5 | | 10 | MHE/EPA |
| Ach. |  |  | |  | | (depending on research, wastewater use and studies) | |  |
| 1. Community and Civil Society participation in the water and sanitation sector enhanced **(P6)** | 1. Islands and atolls where private sector/civil society engaged with water and sewerage increased. **(P6,S1)** | Output | Number of islands with people engaged  Number of women participation | Limited | Target | N/A | N/A | | 20 | | 20 (Awareness programs on water and sanitation management (focused on aspects of skills and knowledge for women)) | | 40  (Increased percentage of women participation in awareness programmes) | MHE |
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| 1. Water resource management improved **(P8)** | 1. An inventory of natural water catchment areas **(P8,S4)** | Output | Natural catchment Area m2/island | Accurate data does not exist | Target | N/A | N/A | | Wider Stakeholder consultations to address and identify key aspects | Develop a strategy for data collection and processing | Data collection and development of inventory | EPA |
| Ach. | N/A | N/A | | N/A |  |  |
| 1. Fresh groundwater quantity **(P8,S2)** | Output | Event (Assess % of fresh groundwater volume (m3)/island) | Data available on selected islands at 2001 studied | Target | Study the available statistics | |  | Allocate budget/secure funds for undertaking additional islands | 10% islands carried out the hydro geological survey | 15% islands carried out hydro geological survey | EPA |
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|  | 1. Mechanism to monitor the water resource quality in the islands developed **(P8,S3)** | Output | Number of islands with WQ testing equipments | Limited in outer islands | Target |  |  | Stakeholder consultations in progress | 2 islands (region) developed with WQ testing facilities |  | EPA/MHE |
| Ach. |  |  |  |  |  |  |
| 1. Enforcement of water and sanitation act of Maldives **P7** | 1. Water Act or Water Legislation drafted   **(P7,S3)** | Output | Event | Draft Framework Prepared | Target | **N/A** | **Request funding for Preparing Water Act** | **Water Act Draft ( MoU signed with MWS&D, Sri Lanka and GoM for technical assistance )** |  |  | MHE |
| Ach. |  | **Lack of sufficient funds for conduction of the acitivity** |  |  |  |
| 1. Drinking water quality standards developed (P7, S2) | Output | Event | Draft WQ standards available | Target | **NA** | **N/A** | **To be reviewed and revised the available standards** |  |  | EPA |
| Ach |  |  |  |  |  |
| 1. Water tariff system developed   **(P7, S4)** | Output | Event | No water tariff system developed for outer islands (before 2009) | Target | **N/A** | **N/A** | **To be drafted** | **To be Finalised** |  | EPA/MHE |
| Ach | **NA** | **NA** |  |  |  |