# Implementation Status & Results

## Maldives

### Maldives Environmental Management Project (P108078)

<table>
<thead>
<tr>
<th>Operation Name</th>
<th>Maldives Environmental Management Project (P108078)</th>
<th>Project Stage</th>
<th>Seq.No</th>
<th>Status: ARCHIVED</th>
<th>Last Modified Date: 21-Jun-2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Country</td>
<td>Maldives</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Product Line</td>
<td>IBRD/IDA</td>
<td></td>
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<tr>
<td>Region</td>
<td>SOUTH ASIA</td>
<td></td>
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</tr>
<tr>
<td>Implementing Agency(ies)</td>
<td>Ministry of Housing and Environment</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

## Key Dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Board Approval Date</td>
<td>10-Jun-2008</td>
<td></td>
</tr>
<tr>
<td>Original Closing Date</td>
<td>30-Jun-2014</td>
<td></td>
</tr>
<tr>
<td>Planned Mid Term Review Date</td>
<td>12-Sep-2011</td>
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<tr>
<td>Last Archived ISR Date</td>
<td>30-Apr-2011</td>
<td></td>
</tr>
<tr>
<td>Effectiveness Date</td>
<td>05-Dec-2008</td>
<td>Revised Closing Date 30-Jun-2014</td>
</tr>
<tr>
<td>Actual Mid Term Review Date</td>
<td></td>
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</tbody>
</table>

## Project Development Objectives

**Project Development Objective (from Project Appraisal Document)**

The main aim of the Project is to provide the Republic of Maldives with the capacity to effectively manage environmental risks and threats to fragile coral reefs as well as marine habitats resulting from tourism development, increased solid waste disposal, fisheries and global climate change. Accordingly, this Project has two development objectives. The first Project Development Objective is that a solid waste management system is established and that inhabitants on targeted islands use solid waste management facilities, reducing the risks of contamination associated with accumulated wastes and sea dumping. The second Project Development Objective is to build human and technical capacity for environmental management so that the environmental dimension is integrated in the planning process using information and expertise developed in the Project.

Has the Project Development Objective been changed since Board Approval of the Project?

- Yes
- No

## Component(s)

<table>
<thead>
<tr>
<th>Component Name</th>
<th>Component Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regional Solid Waste Management Program</td>
<td>6.55</td>
</tr>
<tr>
<td>Capacity Building for Environmental Management</td>
<td>2.94</td>
</tr>
<tr>
<td>Technical Assistance for Strengthened Environmental Management and Monitoring and a Pilot</td>
<td>2.85</td>
</tr>
<tr>
<td>Regional Strategic Environmental Assessment t</td>
<td></td>
</tr>
<tr>
<td>Project Management and Communications</td>
<td>1.54</td>
</tr>
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</table>

## Overall Ratings

<table>
<thead>
<tr>
<th>Rating Description</th>
<th>Previous Rating</th>
<th>Current Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progress towards achievement of PDO</td>
<td>Satisfactory</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Overall Implementation Progress (IP)</td>
<td>Satisfactory</td>
<td>Satisfactory</td>
</tr>
<tr>
<td>Overall Risk Rating</td>
<td></td>
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</tbody>
</table>
Implementation Status Overview

Overall, satisfactory progress has been made toward achieving the project’s development objective. While implementation of the most significant component -- the regional solid waste management (RSWM) program -- during the past 2 years was slower than anticipated, the completion of three key consultancies over the past year was a notable turning point. Those consultancies led to the resolution of one of the project’s most challenging issues, i.e., the identification of the island as the site for the North Province’s regional waste management facility (RWMF). On the whole, the activities under the remaining three components -- capacity building; technical assistance (TA) for environmental monitoring and management; and project management/communications -- are moving forward.

Results

Project Development Objective Indicators

<table>
<thead>
<tr>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>Current</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>(a) Targeted islands are composting, separating recyclables &amp; depositing residual waste in IWMCs; (b) targeted households pay user fees for waste mgmt; (c) no observed spillage in islands with IWMCs</td>
<td>Text</td>
<td>Value</td>
<td>Yr 3 targets: (a) 20%; (b) 20%; (c) 20%</td>
<td>Yr 3 actuals: (a) 0; (b) 0; (c) 0</td>
<td>(a) 50% of islands; (b) 50% of targeted households pay user fees for SWM; (c) 50% of islands</td>
</tr>
<tr>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
<td>30-Jun-2014</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td>For indicators (a) and (b), Yr 3 targets are unlikely to be achieved. But some progress may occur if the pilot composting program were to commence in 2011 (assuming agreement with the beneficiaries on the operational and financial framework for the IWMCs and RWMF). (c) If and when the pilot composting program is implemented, waste spillage in the participating islands can be measured.</td>
<td></td>
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</tr>
</tbody>
</table>
(a) Products & info on environmental issues from analyses made available for planning; (b) participation of island communities in assessment, M&E, stewardship of fisheries & coral reefs

<table>
<thead>
<tr>
<th>Value</th>
<th>Yr 3 targets: (a) None (b) 10%. Yr 3 actuals: (a) N/A (b) Less than 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date 29-Apr-2008</td>
<td>12-May-2011</td>
</tr>
<tr>
<td>Comments</td>
<td>(a) The analyses and results under the completed key studies of Component 1 informed the selection of the RWMF site; hence, target for Yr. 2 was achieved in Yr 3. (b) Communities are involved in bait fishery monitoring in five islands but community monitoring of coral reefs will commence only in Yr. 4.</td>
</tr>
</tbody>
</table>

**Intermediate Results Indicators**

<table>
<thead>
<tr>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>Current</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDO 1: (a) Community-based Island Waste Management Plans (IWMPs) developed on participating islands</td>
<td>Text</td>
<td>Value 0%</td>
<td>Yr 3 target: 40% (end of 2011). Yr 3 actual: 0</td>
<td>70%</td>
<td>30-Jun-2014</td>
</tr>
<tr>
<td>PDO 1: (b) Island Waste Management Plans are implemented on participating islands</td>
<td>Text</td>
<td>Value 0%</td>
<td>Yr 3 target: 50% Yr 3 actual: 0%</td>
<td>80% of plans developed</td>
<td>30-Jun-2014</td>
</tr>
</tbody>
</table>

<p>| Comments | IWMPs may be developed in late 2011 if formal agreements are reached with the beneficiaries on operations and cost-sharing for IWMCs and RWMF in the context of the pilot composting program and participation of other islands. [Revised Yr 3 target: 25%] | Implementation of IWMPs would depend on the above mentioned formal agreements and commencement of the pilot composting program. [Revised Yr 3 target: 0%] |</p>
<table>
<thead>
<tr>
<th>Indicator Name</th>
<th>Core</th>
<th>Unit of Measure</th>
<th>Baseline</th>
<th>Current</th>
<th>End Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>PDO 1: (c) IWMCs built and operational on participating islands (Note: The number of centers to be built will be determined during the first year of implementation through a feasibility study)</td>
<td></td>
<td>Text</td>
<td>Value</td>
<td>Yr 3 target: 40%. Yr 3 actual: 0%</td>
<td>70% of planned IWMCs</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0%</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Comments</td>
<td>BPEO process determined that around 50% of the inhabited islands have IWMCs that were built prior to the project. Hence, MEMP would need to finance the construction of IWMCs in only 20 remaining islands of the North Province. [Revised Yr 3 target: 0%]</td>
<td>30-Jun-2014</td>
</tr>
<tr>
<td>PDO 1: (d) At least one community member on each participating island successfully trained in SWM practices to manage the IWMC (note: Number of IWMPs depend on number of participating communities)</td>
<td></td>
<td>Text</td>
<td>Value</td>
<td>Yr 3 target: 40% Yr 3 actual: 0%</td>
<td>70%</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Comments</td>
<td>Waste management training for communities is expected to commence within 2011. Number of IWMPs developed and the number of communities trained will depend on the formal agreements with the beneficiaries for the IWMCs and RWMF. [Revised Yr 3 target: 10%]</td>
<td>30-Jun-2014</td>
</tr>
<tr>
<td>PDO 1: (e) At least one RWMF built and operational (note: The feasibility study to be carried out during the first year of implementation will determine if more than one RWMF is needed)</td>
<td></td>
<td>Text</td>
<td>Value</td>
<td>Yr 3 target: 1 facility. Yr 3 actual: 0</td>
<td>1 facility (earliest, by project mid-term)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Comments</td>
<td>Target for completion of one RWMF construction has been revised to Yr. 5. [Revised Yr 3 target: 0]</td>
<td>30-Jun-2014</td>
</tr>
<tr>
<td>PDO 1: (f) Environmental impacts monitored and evaluated during RWMF construction and operation</td>
<td></td>
<td>Text</td>
<td>Value</td>
<td>Yr 3 target: 1 review Yr 3 actual: 0</td>
<td>Two reviews (one of which to be completed the same year of project's mid-term)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
</tr>
<tr>
<td></td>
<td></td>
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</tbody>
</table>
The operations of IWMCs and construction of RWMF have not yet commenced. If the above-mentioned formal agreements are reached, and the IWMPs are being implemented, a review may be carried out towards end of Yr. 4. [Revised Yr 3 target: 0]

**PDO 1: (g) At least one barge/landing craft is procured and being used to transport waste to the RWMF(s)**

<table>
<thead>
<tr>
<th>Comments</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>29-Apr-2008</td>
<td>One barge procured and used when RWMF is built</td>
</tr>
</tbody>
</table>

**PDO 1: (h) Waste accumulation does not exceed IWMC capacity in at least 50% of islands with IWMCs**

<table>
<thead>
<tr>
<th>Comments</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0%</td>
<td>29-Apr-2008</td>
<td>50% of islands with IWMCs</td>
</tr>
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</table>

**PDO 2: (a) Number of people enrolled in program as percentage of target**

<table>
<thead>
<tr>
<th>Comments</th>
<th>Value</th>
<th>Date</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>29-Apr-2008</td>
<td>Of the 25 targeted overseas scholarships, 21 students have been enrolled (over 80% of target). Undergraduate degree program in environmental management at Maldives National University (MNU) commenced in 2011 and 18 students are enrolled in the program's first batch, including 10 of the 15 students who passed the foundation course.</td>
</tr>
</tbody>
</table>
PDO 2: (b) Number of reports on terrestrial monitoring, marine monitoring and bait fisheries (note: One of each except bait fishery where assessment is expected to conclude after 2 years)

<table>
<thead>
<tr>
<th>Text</th>
<th>Value</th>
<th>Yr 3 target: 1 each</th>
<th>Yr 3 actual: 6 reports</th>
<th>1 report on terrestrial monitoring (concluded after 2 yrs), 1 on marine monitoring (concluded after 2 yrs), and 1 on bait fisheries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
<td>30-Jun-2014</td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td>Terrestrial monitoring, bait fishery, reef fishery, coastal zone management, coral reef management and coastal erosion reports with baseline data were generated by Yr. 3. The number of reports exceeds the targeted (combined) two studies for completion in Yrs. 2 and 3.</td>
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</table>

PDO 2: (c) Progress in community-based monitoring for each area (% of target islands participating)

<table>
<thead>
<tr>
<th>Text</th>
<th>Value</th>
<th>Yr 3 target: 20%</th>
<th>Yr 3 actual: 12.5% for bait fishery</th>
<th>50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
<td>30-Jun-2014</td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td>Community monitoring for coral reef and terrestrial environment will begin in Yr. 4. Data are being collected on bait fishery in five selected islands.</td>
<td></td>
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</table>

PDO 2: (d) Percentage of new ESIAs employing environmental information generated by the Project in focal areas

<table>
<thead>
<tr>
<th>Text</th>
<th>Value</th>
<th>Yr 3 target: 3</th>
<th>Yr 3 actual: 0</th>
<th>40%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date</td>
<td>29-Apr-2008</td>
<td>12-May-2011</td>
<td>30-Jun-2014</td>
<td></td>
</tr>
<tr>
<td>Comments</td>
<td>During the May 2011 mission, the PMU discussed with the IDA team about the possibility of revisiting the relevance of the pilot RSEA sub-component.</td>
<td></td>
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Data on Financial Performance (as of 10-May-2011)

<table>
<thead>
<tr>
<th>Project</th>
<th>Loan No.</th>
<th>Status</th>
<th>Approval Date</th>
<th>Signing Date</th>
<th>Effectiveness Date</th>
<th>Closing Date</th>
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</thead>
</table>
Key Decisions Regarding Implementation
For the RSWM program to become fully operational, formal agreements must be reached with the beneficiaries on the framework for the operation and financial management of the island waste management centers (IWMCs) and the RWMF before end-2011.

Restructuring History
There has been no restructuring to date.

Related Projects
There are no related projects.