Sector Outcomes, Indicators and Targets – Environment

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| **Sector Outcome** | **Results Indicators** | **Indicator Type** | **Unit of Measure** | **Baseline** | **Targets/ Achievements** | | | | | | **Lead Agency** |
|  | **2009** | **2010** | **2011** | **2012** | **2013** |  |
| 1. EIA Strengthened and Monitoring enhanced (P1) | 1. EIA evaluation process and approval mechanism strengthened in accordance with existing policies and regulations (P1S5S6) | Output | Event | EIA regulation 2007 | Target | Development of EIA evaluation framework | Increase EIA reviewers  Developed general TORs  Training conducted for EIA monitoring  Env. liability regulation | Publish EIA dhivehi reg.  Implementation of fast-track EIA evaluation |  |  | EPA /EIA unit |
| Ach. | Development of EIA evaluation framework | Increase EIA reviewers  Developed general TORs  Training conducted for EIA monitoring  Env liability regulation | Publish EIA Dhivehi reg.  Implementation of fast-track EIA evaluation |  |  |

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|  | 1. Environment information database developed incorporating GIS facility to track other reporting and monitoring performance benchmarks (P1S4) | Output | Event | N/A | Target  Date GIS was established | EIA evaluative framework completed.  Establishment of GIS | Finalization of TORs for evaluation  EIA Dhivehi draft Regulation draft  Development of GIS | Gazette the Dhivehi version of EIA regulation  100%  Implementing  Regulation published |  |  | EPA |
| Ach. | Establishment of GIS started under MEMP | TORs and trainings completed  EIA data collection protocols developed. | Completion of GIS |  |  |
| 3. Environment guidelines for selection of sites for development purposes, enhanced (P1S11) | Output | Event | N/A | Target | Developing Environment Sensitive Sites. | Updating the list of Env sensitive sites | Finalizing the list of sensitive areas |  |  | EPA, MHE / EnvDept |
| Ach. | Environment Sensitive sites developed | Updated the list of Env sensitive sites | Finalization of the list |  |  |
| 4. Councils to which environment monitoring is decentralized  (P1S14) | Outcome | No. of councils | 0 | Target | NA | NA | 5 |  |  | MHE, Council |
| Ach |  | NA | 2 as of 1st quarter |  |  |

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|  | 5. Service delivery enhanced through enhanced capacity and decentralization to Atolls (Indicator may be reworded as“Strengthening of Atoll and Island Councils on Environment protection) | Output | Event | N/A | Target | NA | NA | Training of councilors, magistrates on Env. related areas |  |  | MHE, EPA Councils |
| Ach |  | Planning of trainings for councilors and atoll level staff | Preparation work going on |  |  |
| 2. Biological diversity sustained for ensuring maximization of eco system benefits (P2) | 1. National government, province and atoll offices and community responsibilities on biodiversity conservation defined and incorporated in all national and sector policies (P2S2) | Output | No. policies laws and regulation s into which responsibilities on bio diversity are incorporated | NBSAP 2002 | Target |  | 3 | 3 |  |  | MHE / BD unit |
| Ach. |  | 3 | 2 |  |  |
| 2. Formal agreements and market based instruments for bio diversity conservation increased (P2S4) | Output | No. of agreements | CBD, Cartenagena protocol, AEC project | Target | 2 | 2 |  |  |  | EPA, MHE |
| Ach | 2 | 2 |  |  |  |

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|  | 1. A fully functional protect area established providing protection to terrestrial, marine, mangrove and ecosystem threatened species (P2S5) | Output | Event | Protected Areas Declared under the Act | Target | Declaring sensitive areas | Identifying new sensitive areas | Preparing a wet land data base | Surveying the status of wetlands |  | MHE, EPA |
| Ach | Sensitive areas declared | New sensitive areas identified | Updating the wetland data base. |  |  |
| 1. A fully functional protect area established providing protection to terrestrial, marine, mangrove and ecosystem threatened species | Output | Event | Protected Areas Declared under the Act | Target | Declaring sensitive areas | Identifying new sensitive areas | Preparing a wet land data base | Surveying the status of wetlands |  | MHE, EPA |
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| 3. Community Resilience to impacts of climate change, and capacity for disaster mitigation and coastal protection increased (P3) | 1. Locally appropriate coastal protection and flood measures developed for implementation in inhabited islands (P3S1) | Output | Event | No Baseline (Male' sea walls) etc | Target | (ICCR project) | Survey to review current practiced methods for coastal protections and flood | Survey to review current practiced methods for coastal protections and flood | Carryout and complete an adaptation survey. | Demonstrate the adaptation in the piloted islands of the project | MHE (CCED) |
| Ach |  | Survey included in the ICCR project | Final draft of the report submitted. |  |  |
| 2. National adaptation strategies and program reviewed and NAPA implemented (P3S3) | Output | Event | Existing strategy NAPA | Target | Submit the NAPA project to GEF for funding | Launch the project | (i)Review the Land use Guidelines  (ii)Developing the National Research Strategy | Revised guidelines established | Implement the guidelines | MHE |
| Ach | submitted | Project launched | Consultants hired and at later stage of completion |  |  |
| 3. Current Resilient Islands Program (RIP) reviewed and revised (P3S6) | Output | Event | ICCR project document | Target |  | Sign the agreement and launch the project | Sign the agreement and launch the project | Carry out the activities planned for the year. | Carry out the activities planned for the year. | Utilities/ MHE |
| Ach |  | Project launched | Activities carried out |  |  |
| 4. Civil society engagement in combating climate risks increased (P3S10) | Outcome | % |  | Target |  |  | Workshop for trainers who will provide the training | Information Dissemination information via workshops and web portals | Trainers to conduct training on the native islands |  |
| Ach |  |  | Workshop conducted |  |  |

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|  | 1. Islands in which coastal protection measures are implemented to protect human settlements, increased (P3S9) | Outcome | % (No of islands) | Adapatation Survey Findings | Target |  |  |  | Demonstration of adaption measures on 4 islands. | continue demonstration | MHE |
| Ach |  |  |  |  |  |
| 1. Locations where appropriate waste water treatment processes are implemented to avoid climate change related risks to fresh water availability (P3S7) | Outcome | No. of islands | No baseline | Target |  |  | A project on Integrated Water Adaptation is underway which will be submitted to NPC for approval Prior to the submission | Launch the project and implement it | Continue the demonstration |  |
| Ach |  |  | PIF prepared. |  |  |
| 4. Adaptation and Mitigation response to beach erosion strengthened and a system developed to assist communities where livelihood and property are affected by beach erosion (P4) | 1. Guidelines for settlement planning and coastal modification to prevent erosion developed (P4S1) | Output | Event | Existing Land Use Plan Guidelines | Target |  |  | Prepare guidelines for climate risk resilient coastal protection and LUP | Establish Guidelines |  | MHE |
| Ach |  |  | Ongoing |  |  |

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|  | 2. Viable alternatives (more cost efficient softer measures identified and developed for prevention of coastal erosion Guidelines for settlement planning and coastal (P4S5) | Output | No. | No Baseline | Target |  | Survey of existing soft coastal adaptation measures conducted | Demonstration of softer adaptation measures | continue the demonstration |  | MHE |
| Ach |  | Final report submitted |  |  |  |
| 3. Settlements protected against coastal erosion, increased (P4S2) | Outcome | % |  | Target |  |  | Demonstration of adaption measures on 4 islands. |  |  | MHE |
| Ach. |  |  |  |  |  |
| 4. National coverage under early warning system, increased (P4S7) | Outcome | % |  | Target |  |  |  |  |  | NDMC |
| Ach. |  |  |  |  |  |
| 5. A solid waste management system to prevent adverse impact on human health and environment through economically viable and locally appropriate approaches, implemented (P5) | 1. A Waste Management Act enacted (P5S2) | Output | Event | Env Act 4/93 | Target | Development of first draft of waste management Regulatory framework | Stakeholder consultation and reviewing the draft frame work | Finalization of waste management act |  |  | MHE |
| Ach. | Regulatory framework drafted | completed | To be finalized |  |  |

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|  | 2. Policy and Regulatory Framework for PPP in Waste Management, developed (P5S2) | Output | Event |  | Target | Development of waste management Regulatory framework |  |  |  |  | MHE |
| Ach. | PPP in cooperated in the reg. framework |  |  |  |  |
| 3. Facilitation for island communities to manage their waste management (P5S1) | Output | Event: |  | Target | Trainings for island communities | Trainings for island communities  Handover of WM equipments | Trainings for island communities  Handover of WM equipments |  |  | EPA, utilities, MEMP project |
| Ach | completed | completed | ongoing |  |  |
| 4. Island waste management centres managed by island communities increased (P5S3) | Outcome | No: of islands having waste management facilities | Baseline ? | Target |  | 114 |  |  |  |
| Ach |  | 114 |  |  |  |
| 5. Provincial Solid Waste Management facilities established for recovery and recycling, facilitated (P5S4) | Output | Event: |  | Target | Selection of sites | Surveying and developing site | Establishment of site in North Province |  |  | EPA, utilities, MEMP project |
| Ach | North province selected under MEMP project | Surveying conducted  Design of the site developed | Preparatory work going on |  |  |
| 6. Provincial waste management centres functional (P5S5) | Outcome | No. of provincial waste management centres | 01 (Thilafushi) | Target | - | - | 01(north province) |  |  |  |
| Ach | - | - |  |  |  |

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| 6. People and the environment protected from hazardous waste and chemicals (P6) | 1. A National Chemicals Regulation Framework, guidelines and information system developed (P6S1) | Output | Event | Was there a Regulation and Guideline before 2009? | Target | - | Including chemicals management in the Env act | Developing a Chemical profile of Maldives | NAP of conventions developed | Guide line of chemical handling prepared | MHE/ international relation unit |
| Ach. | - | Draft prepared | SAICM proposal prepared for funding the project |  |  |
| 2. A communication system for timely updated notification of movement of hazardous waste, meeting international standards developed (P6S2) | Output | Event |  | Target | Reporting of international conventions strengthened | Annual Reporting of international conventions strengthened | Guideline for trans boundary movement of hazardous waste prepared | Is there any are of work that would be covered in 2012? | Updated notification to conventions |  |
| Ach. | Annual reporting | Annual reporting done |  |  |  |
| 7. Air Quality to safeguard human health, improved (P7) | 1. Densely Populated Islands equipped with ambient air quality monitoring station, increased (P7S1) | Output | Event | N/A | Target | Improvement of data collection | Air pollution monitoring in Male’ | Male air quality monitoring |  |  | EPA |
| Ach. | Data collection improved | UNEP donated equipment | ongoing |  |  |
| 2. Point and Mobile sources monitored for pollution increased (P7S2) | Outcome | No: | 1 (year 2008 ?) | Target |  | 2 | - |  |  |  |
| Ach. |  | 2 |  |  |  |

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| 8. Functional decentralized environment governance system established (P8) | 1. Mandates for Environmental Administration at the National, Provincial, Atoll and Island Levels established (P8S1) | Output  (refer to decntrlization indicator) | No. of EPA In the islands | Mandates by PO | Target |  |  |  |  |  | PO |
| Ach. |  |  |  |  |  |
| 2. Capacity in Provinces, Atolls, Islands where environment related functions are being carried out, increased | Outcome | No: trained staff/ degree/ diploma |  | Target |  | 10students to complete foundation | 17 enrolled(for foundation)  20 (for diploma /degree) |  |  | MHE / MEMP project |
| Ach. |  | 10 students completed foundation | 17 enrolled(for foundation)  20 (for diploma /degree) |  |  |
| 9. Measures to develop a low carbon economy for achieving carbon neutrality by 2019, implemented (P9) | 1. Legal Framework and Action Plan targeting carbon neutrality by 2019 established (P9S1) | Output | Event | Energy balances 2005 | Target |  | National Energy demand and supply studies 2009 | Carbon Audit | (i)Prepare energy sector investment plan. (ii)Enhance the investment plan. | Implementation of the Investment Plan | MHE , MEA |
| Ach. |  | Completed | Completed | (i)Energy Sector Investment Plan framework Completed.  (ii)EIOs submitted and under review  (iii)Draft bill completed |  |

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|  | 2. Incentive scheme to encourage businesses offering renewable sources of energy, developed (P9S5) | Output | Event | Energy Policies and Strategies | Target |  | Formulate a policy on provision of incentives for renewable energy products. | Publish a Dhivehi Version of Energy Policy | (i)Implementation of the Energy Policy  (ii)Prepare a scheme to provide incentives |  | EPA |
| Ach |  | Completed English Version | Draft Translation Completed |  |  |
| 10. Values for Environment friendliness inculcated among the population (P10) | 1. Businesses engaged in establishing and servicing alternate renewable energy system increased (P10S1) | Outcome | No. | (i)Energy Policies and Strategies  (ii)Completed Investment Plan | Target |  |  |  | Prepare an action plan to engage the public and private partners in renewable energy sector | Continuation of the Implementation of the Investment Plan | MHE/MEA |
| Ach |  |  |  | Prepare an action plan to engage the public and private partners in renewable energy sector | Continuation of the Implementation of the Investment Plan |
| 2. Communities, media, industrial enterprises, government agencies adopting appropriate waste management practices, and other Environmental issues increased (P10S2) | Output | No. of awareness programs conducted | Awareness among the public | Target |  | 5 | 5 | 5 | 5 | MHE (awareness unit) |
| Ach. | Env. days celebrated, leaflets and booklets published | 5 provincial workshop,  Pemphis newsletter, Env days celebrated | 1 provincial workshop,  Pemphis newsletter, ongoing activities to start a waste campaign |  |  |

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| 11. Values for Environment friendliness inculcated among the population | 1. Communities, media, industrial enterprises, government agencies adopting appropriate waste management practices, and other Environmental issues increased | Output | No. of awareness programs conducted | Awareness among the public | Target | |  | 5 | 5 | 5 | 5 |  |
| Ach. | | Environment day celebrated, leaflets and booklets published | 5 provincial workshop,  Pemphis newsletter, Env days celebrated | 1 provincial workshop,  Pemphis newsletter, ongoing activities to start a waste campaign |  |  |
| 2. Communities, media, industrial enterprises, government agencies engaged in advocating climate change issues and importance and advantages of becoming carbon neutral, increased | Output | No. of awareness program,mes conducted |  | Target |  | | 7 | 5 |  |  | MHE |
| Ach. | Carbon neutral goal announced by 2020 | | (i) 5 Provincial workshop,  (ii) 2 Trainings for stakeholders and custom  (iii)Pemphis newsletter, carbon audit report | 1 Provincial workshop conducted |  |  |