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| **Sector Outcome** | **Results Indicators** | **Indicator Type** | **Unit of Measure** | **Baseline** | **Targets/ Achievements** | | | | | | **Lead Agency** |
|  | **2009** | **2010** | **2011** | **2012** | **2013** |
| 1 . Access to affordable and reliable electricity supplies for all  P1 | 1 .Incentives in form of grants and concessionary financing introduced for power sector development, increased  P1S4 | Output | No. of incentive schemes | Power sector development loans by MoFT, FRESA loan scheme, Fuel subsidy | Target | Provide Grants for power system upgrade | Fuel subsidies | Draft Utilities development fund concept | Utilities development Fund established | Start disbursement of financing | MHE, MoFT  MoED |
| Ach | - FRESA 1 loan,  - 26 loans disbursed under revolving fund established at MoFT | - FRESA 1 loan  - Electricity subsidies provided for household in need  - Fuel subsidies given to utilities companies |  |  |  |
| 2 .Private sector participation in developing and managing sustainable electricity supplies, increased facilitated  P1S2 | Outcome | Event | NA | Target | Handing over power systems developed by the Government to the six Utility Companies | - Initiate and facilitate private sector partnership with utility companies  - Utility capacity development | Energy Sector Investment plan for PP prepared | Legislation for PP enacted, Implementation of energy sector investment plan | Private utilities operational, Implementation of energy sector investment plan | MHE, MoFT  MoED |
| Ach | Six utility companies established | Target Achieved |  |  |  |
| 3 . Islands with more Reliable and safe RE based electricity supplies increased.  P1S1 | Outcome | % of Renewable Energy Supply in total electricity supply | Existing RE pilot projects | Target | 0.2% | 0.2%~ 1% | 2% | 5% | 10% | MHE, Utilities |
| Ach | 0.2% | To be assessed |  |  |  |

**Results Framework (RF) –Energy**

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|  | 4 .Electricity unit prices in islands at lowest cost possible  P1S4 | Outcome. | Avg. Unit price for consumer | Existing tariff structure | Target | To establish Uniform regional tariff structure | Implementing tariff structure in the regions | - Maintaining avg. Unit price constant (Tarrif+surcharge)   * Possibilities for adopting Feed-in tariff explored * Implementing tariff structure in the regions | - Maintaining avg. Unit price constant (Tarrif+surcharge)  - Feed-in tariff policies Recommended  Implementing tariff structure in the regions | Maintaining avg. Unit price constant (Tarrif+surcharge)  - Feed-in tariff policies & implementation guidelines implemented | MEA, NSPA, MoFT, |
| Ach | Uniform regional tariff structure established | Implementation on going |  |  |  |
| 5. Subscribers to RE-based electricity increased | Outcome | % | % with access to electricity | Target | 1% | 1% | 2% | 5% | 10% | MHE, MoFT, Utilities |
| Ach | 0.2% | 0.2%~ 1% | NA | NA | NA |
| 2 . Carbon neutrality achieved by 2020  P2 | 1. Standards established for exhaust emissions, EE appliances, vehicles and vessels that use clean fuels   P2S3 | Output | Event | Maldives Energy Authority regulation | Target |  |  | Establish exhaust emission standards for power plants, Establish EE appliance standards | Establish exhaust emission standard for vehicle/ vessels | Establish monitoring mechanisms | MEA |
| Ach |  |  |  | NA | NA |
| 2 .Forecasts of energy usage by different sectors, GHG emissions and status of carbon neutrality developed  P2S1 | Output | Event | Energy demand and supply study 2002,2003, 2004, 2005 | Target | Energy demand and supply for 2008/2009 | Energy demand and supply for 2009 | Energy demand and supply 2010, including sectoral studies | Energy demand and supply study 2011, modelling studies | Comprehensives Energy demand and supply study 2012 | MHE, MEA |
| Ach | Not achieved | Energy demand and supply study Completed for 2009, energy audit completed | Working on the energy demand and supply study for 2010 |  |  |

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|  | 3 .Research and Development of Carbon Capture and Sequestration projects targeting reduction in GHG emission increased  P2S4 | Output | No. of Research and Development Projects | First National communication (2001) | Target | NA | NA | Follow the development of CCS technology, Data collection for second NC | Establish the potential of CCS in Maldives, Data collection for 2nd NC | Completion of 2nd NC | MHE |
| Ach | NA | NA | NC Project Document preparation ongoing |  |  |
| 4 .Demand for diesel fuel decreased  P2S2 | Outcome | % | Existing RE pilot projects | Target | NA | NA | -3% from BAU | -7% from BAU | - 12% from BAU | Utilities, MHE |
| Ach | NA | NA | NA | NA | NA |
| 1. Cost reduction through energy efficiency and energy conservation   P3 | 1. Study compiled on all areas of improvements to achieve fuel conservation and efficiency in different modes of transportation   P3S4 | Output | Event | Sea transport network established, | Target |  |  |  |  | Potential sustainable transport assessments | MoTC, MHE |
| Ach |  |  |  |  |  |
| 2. Incentive schemes developed for establishing charging centres to support increased use of electric vehicle and use of alternate cleaner fuels on existing vehicles  P3S5 | Output | Event |  | Target |  |  |  | Establishment of the scheme framework | Inauguration of first charging station | MoTC, MHE |
| Ach |  |  |  |  |  |
| 1. I   P3S3 | Impact | % | Energy demand and supply study 2009 | Target |  | 32% | 33% | 36% | 40% | Utilites, MHE,  MEA |
| Ach | 30.01% |  |  |  |  |
| 1. Reduce expenditure on energy bill in comparison to GDP | Impact | % of GDP**(reduction over prev. yr.)** | 23 % of GDP | Target | 8% reduction |  |  | 2% reduction | 3% reduction | MEA, MHE, Tourism. MoTC  MoED |
| Ach | 8% reduction | 3% increase |  |  |  |

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| 1. National energy security increased via diversified energy sources   P4 | 1. Indigenously available renewable sources of energy developed for use, increased P4S1 | Output | No. | Existing RE Pilot projects | Target |  |  | 700kWp solar PV, | SREP targets | SREP targets | MHE, utilities, Min of Tourism |
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|  |  |  |  |
| Ach |  |  |  |  |  |
| 2. Study conducted on energy demand and supply at regional/ provincial levels  P4S2 | Output | Event | Energy demand and supply study 2002,2003, 2004, 2005, 2009 | Target |  | Local Energy demand and supply studies | Local Energy demand and supply studies | Local Energy demand and supply studies | Local Energy demand and supply studies | MEA, MHE, |
| Ach | Local Energy demand and supply studies 2009 |  |  |  |  |
| 3. Renewable Energy Centre established and courses on renewable energy introduced in school and national college curriculum P3S10 | Output | Event | RE information kiosk | Target | Establish RE Kiosk, Sign with an agreement with MITE to conduct RE courses. | Introduce RE courses at MITE. | RE course at FET/ schools | RE course at FET/school ; students graduating | RE course at FET/schools; students graduating | Maldives National University, MHE |
| Ach | RE information kiosk | RE course at FET |  |  |  |
| 4. Suppliers mandated to participate as strategic partners in ensuring timely, quality and quantity availability of required petroleum products at selected supply centers, increased P4S5 | Impact | No. |  | Target |  |  |  | Increase the number of suppliers | Increase no of suppliers | MoED |
| Ach |  |  |  |  |  |
| 1. Feasible regions opened for fuel market for investors, increased   P4S3 | Output | No. |  | Target |  |  |  | Fuel storage facilities at **70**  & 0**0** | Fuel storage facilities at 7**0** & 0**0** | MoED |
| Ach |  | Proposal to develop Fuel storage |  |  |  |

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|  | 6. Communities generating their own Power supplies from household waste and bio fuel, increased P5S7 | Output | No. | SMILES pilot project | Target |  |  |  | Community based demonstration project | Community based demonstration project | Utilities |
| Ach |  |  |  |  |  |
| 7. Non Conventional renewable Energy (bio gas) installed capacity, increased | Output | No. | SMILES pilot project | Target |  |  |  | Community based demonstration project | Community based demonstration project | Utilities, |
|  |  |  |  |  |  |
| Ach | 2009 |  |  |  |  |
| 8. Electricity provisions to households through conventional/ non conventional renewable energy supplies | Outcome | Ratio | Pilot RE projects | Target |  |  | Install 700kW Solar PV;  RE project at Thinadhoo | SREP | SREP | Utilities |
| Ach |  | Contract signed, funds approved |  |  |  |
| 5. Institutional and Legal framework of the energy sector, strengthened  P6 | 1. Frameworks to regulate and monitor energy usage focused on protecting the environment and human health established   P6S1 | Output | Event |  | Target |  |  | Identification of parameters and variables to analyze energy- envt.- human health linkages | Develop frameworks | Establish regulations | MEA, EPA, Min of Health |
| Ach |  |  |  |  |  |
| 1. Regulations developed for facilitating market driven tariffs, competition, encouraging formation of JV, energy production from renewable sources and for establishing regional and interconnected submarine grids   P6S5, P6S4 | Output | Event | Energy policy, MEA regulation | Target |  |  | Energy bill, PPA, feed-in tariff, RE equipment standards;  Conduct feasibility studies to install submarine cable | Implementation of energy bill;  Install submarine cable | Monitoring in place;  Increased installation of submarine cable | MEA, Utilities, MHE |
| Ach |  |  |  |  |  |

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|  | 1. Guidelines and design requirements for ensuring energy efficiency in building developed   P6S9 | Output | Event | Building code | Target |  |  | Energy policy developed | Develop standards & implementation guidelines | Monitoring mechanism in place | MHE, MEA |
| Ach |  |  | Energy audits for buildings |  |  |
| 1. Buildings qualified for certification as energy efficient, increased   P6S9 | Outcome | No. | Building code | Target |  |  | Potential energy conservation estimated | % of existing building adopting conservation | % of new construction is EEBs | MHE, MEA |
| Ach |  |  |  |  |  |