

Revised Tables

Chapter 4: Mitigation

4.2 Baseline Projection

Table 1: Sectoral Breakdown of the emission projection (GgCO₂e)

Source of Emission	2011	2030	Percentage change
Commercial and Public Services	176.4	671.5	280.8%
Transport	263.9	740.4	180.5%
Industry	35.8	131.8	268.1%
Resorts	419.2	962.4	129.6%
Residential	226.2	707.3	212.7%
Fishing	58.0	71.4	23.1%
Waste	46.8	81.8	74.9%

4.3 Mitigation Actions

Based on the above criteria, the identified mitigation actions are detailed below. The detailed methodologies for impact of mitigation actions are included in the annex.

Name of Mitigation Action	Project for the Clean Energy Promotion in Male'	
Nature of Action/ Description of project	Promotion of PV in Greater Male area. Install 740 kW of solar PV	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	Greater Male Region
Implementing Entity	Ministry of Housing and Environment (currently Ministry of Environment)	
Start Year	2010	
Status	Completed	
Objective of the action/project	Promotion of PV in Greater Male area. Install 740 kW of solar PV	
If an ongoing project: Steps taken or envisaged to achieve mitigation action	Not applicable	
Estimated Emission Reduction	799.2 tCO ₂ e per year	
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel	
Methodology and Assumptions	Energy produced multiplied by grid emission factor	

Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants
Contact Point	Ahmed Ali

Name of Mitigation Action	Clean Energy for Climate Mitigation Project	
Nature of Action/ Description of project	Installation of 558 kWp of PV together with automated monitoring and control technologies to support grid operations and PV-diesel optimization.	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	GDh Thinadhoo
Implementing Entity	Ministry of Environment and Energy (currently Ministry of Environment)	
Start Year	2011	
Status	Completed	
Objective of the action/project	Installation of 558 kWp of PV together with automated monitoring and control technologies to support grid operations and PV-diesel optimization.	
If an ongoing project: Steps taken or envisaged to achieve mitigation action		
Estimated Emission Reduction	589 tCO ₂ e per year	
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel	
Methodology and Assumptions	Energy produced multiplied by grid emission factor	
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants	
Contact Point	Ahmed Ali	

Name of Mitigation Action	Dhiffushi Solar Ice Project	
Nature of Action/ Description of project	installation of a 40 kW grid-connected photovoltaic system (PV)	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	GDh Thinadhoo
Implementing Entity	Ministry of Environment and Energy (currently Ministry of Environment)	
Start Year	2011	
Status	Completed	
Objective of the action/project	installation of a 40 kW grid-connected photovoltaic system (PV)	
If an ongoing project: Steps taken or envisaged to achieve mitigation action		
Estimated Emission Reduction	43.2 tCO ₂ e per year	
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel	

Methodology and Assumptions	Energy produced multiplied by grid emission factor
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants
Contact Point	Akram Waheed

Name of Mitigation Action	Support of the Climate Neutrality Strategy of Maldives	
Nature of Action/ Description of project	Diesel-solar-hybrid systems have been built on two pilot islands (324kW)	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	R.Ungoofaaru Dh.Kudahuvadhoo
Implementing Entity	Ministry of Environment and Energy (currently Ministry of Environment)	
Start Year	2011	
Status	Completed	
Objective of the action/project	Diesel-solar-hybrid systems have been built on two pilot islands (324kW)	
If an ongoing project: Steps taken or envisaged to archive mitigation action		
Estimated Emission Reduction	349.9 tCO ₂ e per year	
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel	
Methodology and Assumptions	Energy produced multiplied by grid emission factor	
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants	
Contact Point	Ahmed Ali	

Name of Mitigation Action	Enhanced Water Security and Climate Resiliency in Maldives	
Nature of Action/ Description of project	Diesel-solar-hybrid systems (114kW) to cater for the Desalination plant power requirements	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	ADh Mahibadhoo Gdh. Gahdhoo Ha. Ihavandhoo
Implementing Entity	Ministry of Environment and Energy (currently Ministry of Environment)	
Start Year	2009	
Status	Completed	
Objective of the action/project	Diesel-solar-hybrid systems (114kW) to cater for the Desalination plant power requirements	
If an ongoing project: Steps taken or envisaged to achive mitigation action		
Estimated Emission Reduction	123.1 tCO ₂ e per year	

Progress Indicator	Electricity supplied annually from RE displacing fossil fuel
Methodology and Assumptions	Energy produced multiplied by grid emission factor
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants
Contact Point	Mohamed Musthafa

Name of Mitigation Action	Low Emission Climate Resilient Development (LECRd)	
Nature of Action/ Description of project	installation of a 66kW grid-connected photovoltaic system (PV)	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	Laamu
Implementing Entity	Ministry of Environment and Energy (currently Ministry of Environment)	
Start Year	2011	
Status	Completed	
Objective of the action/project	installation of a 66kW grid-connected photovoltaic system (PV)	
If an ongoing project: Steps taken or envisaged to archive mitigation action		
Estimated Emission Reduction	71.3 tCO ₂ e per year	
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel	
Methodology and Assumptions	Energy produced multiplied by grid emission factor	
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants	
Contact Point	Ali Shareef	

Name of Mitigation Action	STELCO 6 Island Project	
Nature of Action/ Description of project	installation of a 652kW grid-connected photovoltaic system (PV)	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	Subnational
Implementing Entity	Ministry of Environment and Energy (currently Ministry of Environment)	
Start Year	2010	
Status	Completed	
Objective of the action/project	installation of a 652kW grid-connected photovoltaic system (PV)	
If an ongoing project: Steps taken or envisaged to archive mitigation action		
Estimated Emission Reduction	704.2 tCO ₂ e per year	
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel	

Methodology and Assumptions	Energy produced multiplied by grid emission factor
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants
Contact Point	STELCO

Name of Mitigation Action	Preparing Outer Islands for Sustainable Energy Development (POISED)	
Nature of Action/ Description of project	installation of a ~23MW grid-connected photovoltaic system (PV) for all inhabited islands	
Coverage	GHG	CO ₂ , CH ₄ , NO _x
	Geographic Scope	GDh Thinadhoo
Implementing Entity	Ministry of Environment	
Start Year	2012	
Status	Ongoing	
Objective of the action/project	installation of a ~23MW grid-connected photovoltaic system (PV) for all inhabited islands	
If an ongoing project: Steps taken or envisaged to achieve mitigation action	Phase1 completed Phase 2: 90% complete Phase 3 and 4 preparations on going	
Estimated Emission Reduction	27,572 tCO ₂ e per year	
Progress Indicator	Electricity supplied annually from RE displacing fossil fuel	
Methodology and Assumptions	Energy produced multiplied by grid emission factor	
Any Co-Benefits if available from project documents and if quantifiable	Increase energy security Contributes to reduction in air pollutants	
Contact Point	Ahmed Ali	