



Republic of Mauritius



Mauritius' First Biennial Transparency Report

December 2024

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Foreword

The Republic of Mauritius is pleased to submit its First Biennial Transparency Report (BTR1) to the United Nations Framework Convention on Climate Change Secretariat in accordance with the requirements of the Enhanced Transparency Framework under the Paris Agreement.

In order to fulfill its obligations to the Convention, Mauritius prepared the following reports and submitted them to the Secretariat of the Convention in previous years:

- 1999 Initial National Communication
- 2010 Second National Communication
- 2017 Third National Communication
- 2021 First Biennial Update Report

As a Small Island Developing States, the Republic of Mauritius, through the BTR1, wishes to demonstrate its commitment and accountability to the global climate action despite its relatively insignificant contribution of around 0.01% to the global greenhouse gas emissions. Mauritius has taken significant commitments to improve its ambitions for greenhouse gas (GHG) emission reduction. In 2015, the first Mauritius Nationally Determined Contribution (NDC) has pledged to achieve greenhouse gas (GHG) emissions reduction of 30% by 2030 relative to the business-as-usual scenario. As per the updated 2021 NDC and based on current projections, Mauritius aims to reduce overall GHG emissions by 40% in 2030 compared to the business-as-usual scenario. Therefore, the reviewed NDC is more ambitious and this target will be achieved through increasing the share of renewable energy in the energy mix to 60% by 2030, phasing out of coal by 2030, promoting a circular economy by diverting 70% of wastes from the landfill by 2030, encouraging the use of electric vehicles with a target of 15% electric vehicles by 2030, increasing energy efficiency by 10% based on 2019 figures and promoting smart agriculture and undertaking island-wide tree-planting programmes.

The report describes the efforts undertaken by the country to implement mitigation measures, highlights the adaptation priority sectors and the support received and needed to meet its target. The report also indicates the planned improvements needed for climate action.

As a member of the international community, the Republic of Mauritius remains committed to working constructively to respond to the global challenge of climate change and share all assessments undertaken to achieve its NDC.

Acknowledgement

The Government of Mauritius is very appreciative of all the financial and technical support that the Global Environment Facility and the United Nations Environment Programme have extended for the preparation of this First Biennial Transparency Report for the Republic of Mauritius.

The Government of Mauritius would also like to thank and acknowledge the following international institutions for their support:

- the Transparency Division under the UNFCCC and the UNEP Copenhagen Climate Centre for their in-country capacity building support to relevant stakeholders under the Capacity Building Initiative for Transparency –Global Support Programme (CBIT – GSP); and
- the CBIT-GSP for the technical support in undertaking the quality assurance exercise of the reports.

The Government also recognise and value the efforts of various stakeholders from the public sector, private sector and the academia for their assistance with data provision and development of the report.

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Executive Summary



Executive Summary

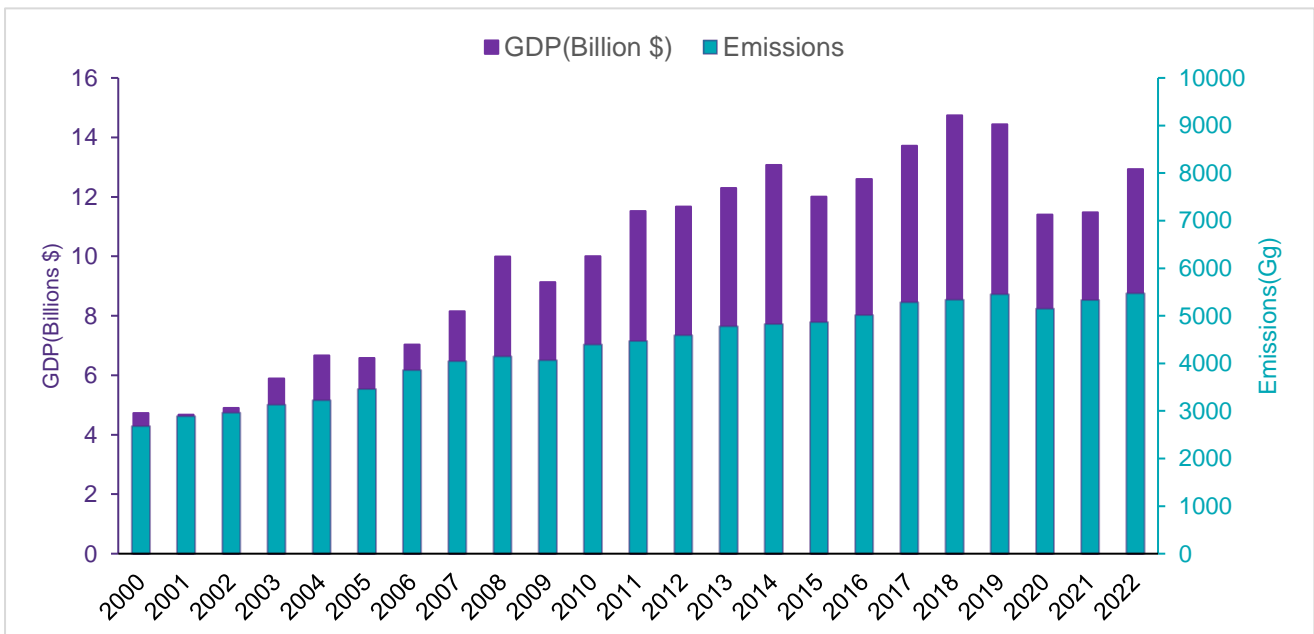
Chapter 1: National inventory report of anthropogenic emissions by sources and removals by sinks of greenhouse gases

The Republic of Mauritius (RoM) submitted its first inventory of Greenhouse Gas (GHG) as part of its Initial National Communication in April 1999. An improved national GHG inventory was developed by RoM during the preparation of the Second and Third National Communications.

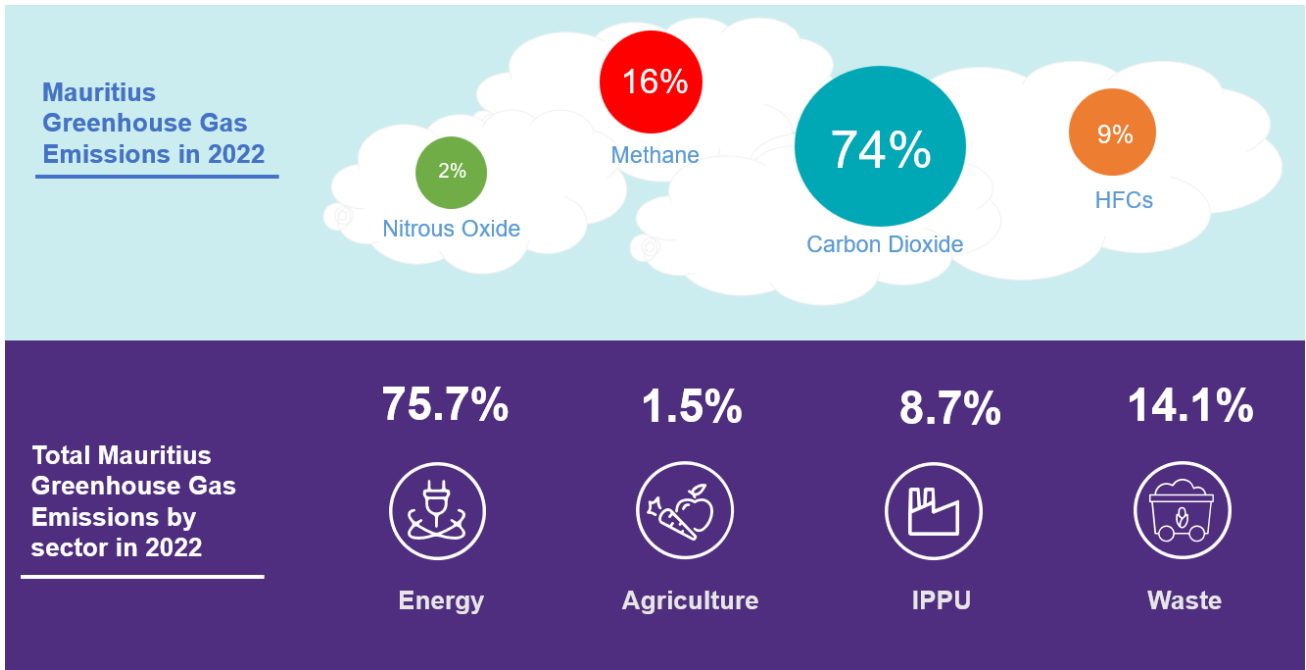
The Republic of Mauritius is obligated to submit its national inventory of Green House Gases emissions for the period 2017 to 2022 and its First Biennial Transparency Report (BTR) to the UNFCCC Secretariat. As SIDS, RoM can submit the National Inventory and BTR at its own pace, however, RoM intended to submit the BTR by 31st December 2024.

The methodology followed for the development of the national inventory is recommended by Intergovernmental Panel on Climate Change (IPCC) in their 2006 Guidelines for National Greenhouse Gas Inventories as well as the Good Practices Guidance.

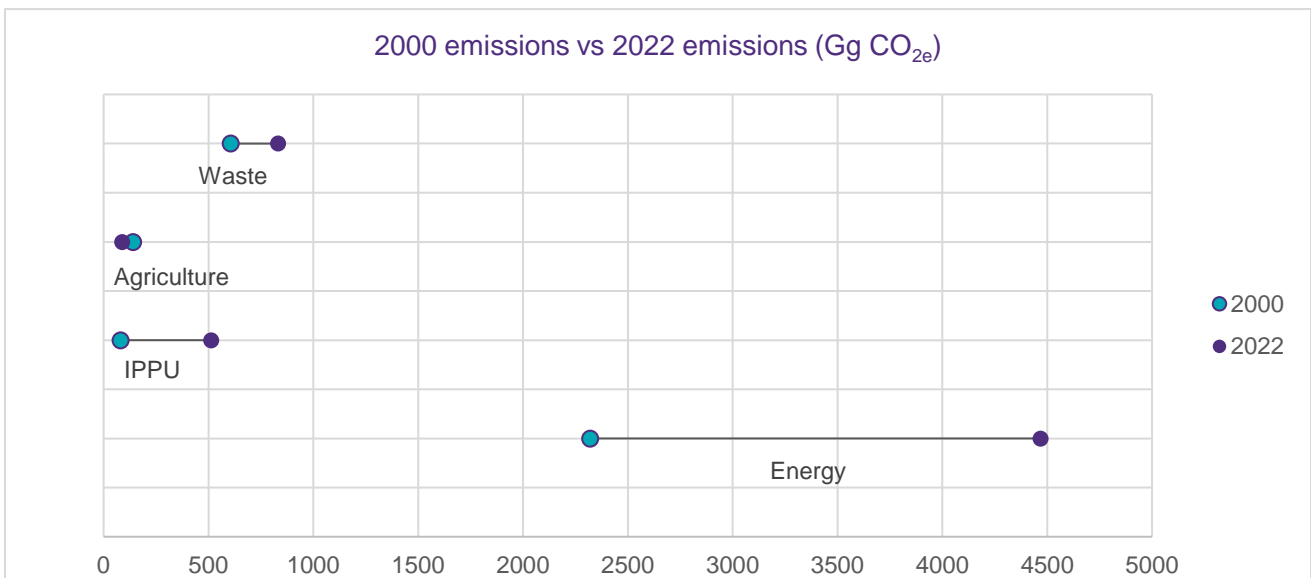
Mauritius has experienced remarkable economic growth since gaining independence in 1968 and now stands as one of the highest per capita incomes in Africa. In the 1980s, the country began a shift toward a more varied economic structure, making significant strides in sectors such as textile, tourism, fisheries and manufacturing. Since the turn of this century, it has successfully expanded into financial services as well as information and communication technology. From 2000 to 2022, RoM has witness 174% rise in its real Gross Domestic Product (GDP) while during the same period, the net GHG emissions increased by 104%.



The total GHG emissions (excluding LULUCF) in 2022 were **5901 Gg CO_{2e}** and GHG emissions (including LULUCF) were **5471 Gg CO_{2e}**. Emissions from CO₂, CH₄, N₂O and HFCs were estimated in the inventory. CO₂ emissions accounted for 74% of the total emissions followed by CH₄ which accounted for 16% of the emissions, HFCs accounted for 9% of emissions and N₂O accounted for remaining 2% emissions.



From 2000 to 2022, energy sector emissions increased from 2320 Gg CO_{2e} to 4468 Gg CO_{2e}, IPPU emissions increased from 81 Gg CO_{2e} to 513 Gg CO_{2e}, waste sector emissions increased from 605 Gg CO_{2e} to 832 Gg CO_{2e}, agriculture sector emissions reduced from 140 Gg CO_{2e} to 88 Gg CO_{2e} and LULUCF removals reduced from 464 Gg CO_{2e} to 430 Gg CO_{2e}.



The Republic of Mauritius has applied flexibility for the following aspects in GHG inventory:

Para 85 of Decision 18/CMA1: Each Party shall report a consistent annual time series starting from 1990; those developing country Parties that need flexibility in the light of their capacities with respect to this provision have the flexibility to instead report data covering, at a minimum, the reference year/period for its NDC under Article 4 of the Paris Agreement and, in addition, a consistent annual time series from at least 2020 onwards.

- Republic of Mauritius has been maintaining the necessary data for developing GHG inventory from 2000 onwards.

Chapter 2: Information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement

The Republic of Mauritius has a long tradition of parliamentary democracy. The country was declared independent in 1968. The Constitution guarantees the separation of the legislative, executive and judicial powers. Since 1992, Mauritius is a Republic where the Head of State is the President of the Republic, and the Government is led by the Prime Minister. The Government is elected on a five-year basis.

The Climate Change Act of 2020 established the Department of Climate Change, along with other entities, to help Mauritius become a low-emission and climate-resilient country. A Project Steering Committee under the chair of the Permanent Secretary of the Ministry of Environment, Solid Waste Management and Climate Change (Environment and Sustainable Development Division) has been set up to provide guidance in terms of the process leading to political and stakeholder acceptance of BTR outcomes and to provide overall quality assurance for the final deliverables of the project, namely the BTR and NIR reports. The following five Technical Working Groups (TWGs) have been established to oversee the implementation of climate change activities in the various key sectors:

- **TWG-1:** National Circumstances and Institutional Arrangement/ Integration of Climate Change consideration into social, economic and environmental policies and actions/ Gender and Climate Change
- **TWG-2:** GHG Inventory/Mitigation Measures
- **TWG-3:** Vulnerability Assessment & Adaptation
- **TWG-4:** Climate Change Research and Systematic Observation/ Education, Training and Public Awareness/ Knowledge, Information Sharing & Networking
- **TWG-5:** Constraints and Gaps, and Related Financial, Technical and Capacity Needs / Technology Transfer and Development/ Capacity Building

NDC target of Republic of Mauritius

The Republic of Mauritius aims to reduce overall GHG emissions by 40% in 2030 compared to the Business as Usual (BAU) scenario of about 6,900 ktCO_{2e} (including LULUCF) in 2030. This economy-wide emissions reduction target comprises sector specific mitigation targets for energy, transport, waste and Industrial Processes and Product Use (IPPU). Mauritius confirms its commitment to implement policies and measures on LULUCF and Agriculture sectors in line with its national policy and strategy documents on climate change and sustainable development.

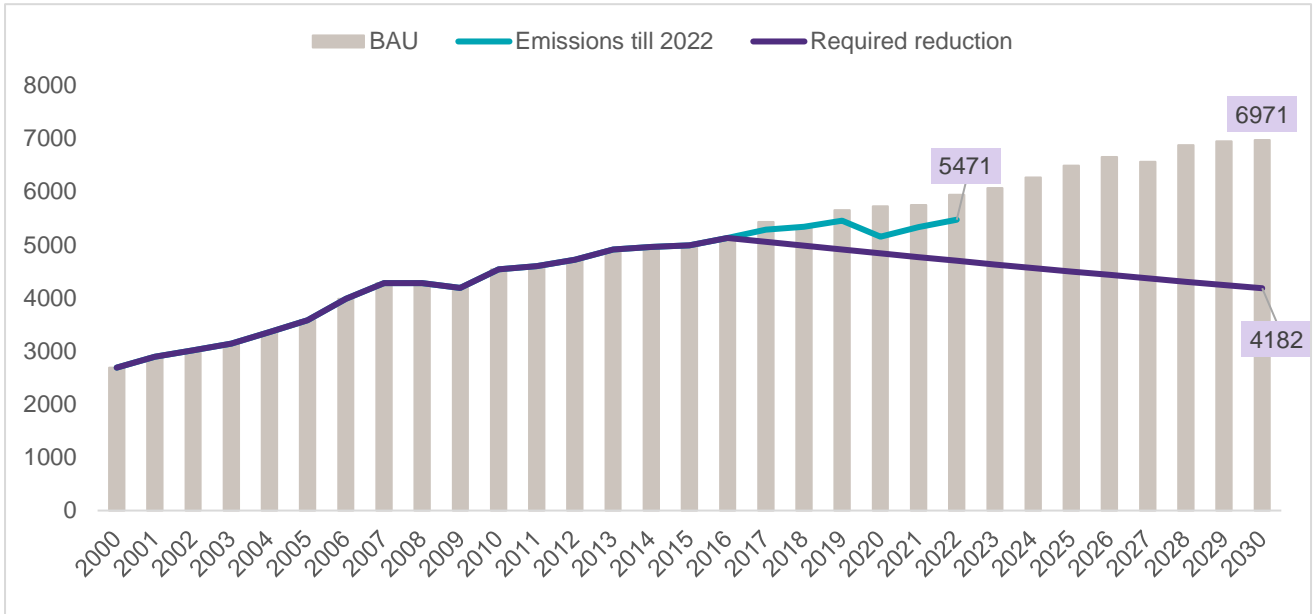
Mauritius actions on adaptation are centred around the 2021 Updated National Climate Change Adaptation Policy Framework that focuses on the potential of nature-based solutions for adaptation and provides a new policy orientation in key adaptation sectors to build resilience. The implementation of mitigation and adaptation actions as identified in this NDC is unconditional as well as conditional on external financial support received.

For tracking progress made in achieving NDC target, the selected indicator is the national total GHG emissions, which is calculated based on the 2006 IPCC Guidelines for National GHG Inventory. The global warming potentials (GWPs) presented in the IPCC Fifth Assessment Report (AR5) are used to calculate the national total GHG emissions in CO₂ equivalent in accordance with the relevant provisions of the MPGs (18/CMA.1, Annex). The implementation and achievement of the target in Republic of Mauritius' NDC will be done by comparing the Business as Usual (BAU) emissions in 2030 with the total economy wide GHG emissions including LULUCF. The GHG emissions from Lime category are not reported as lime production stopped in Mauritius in 2014.

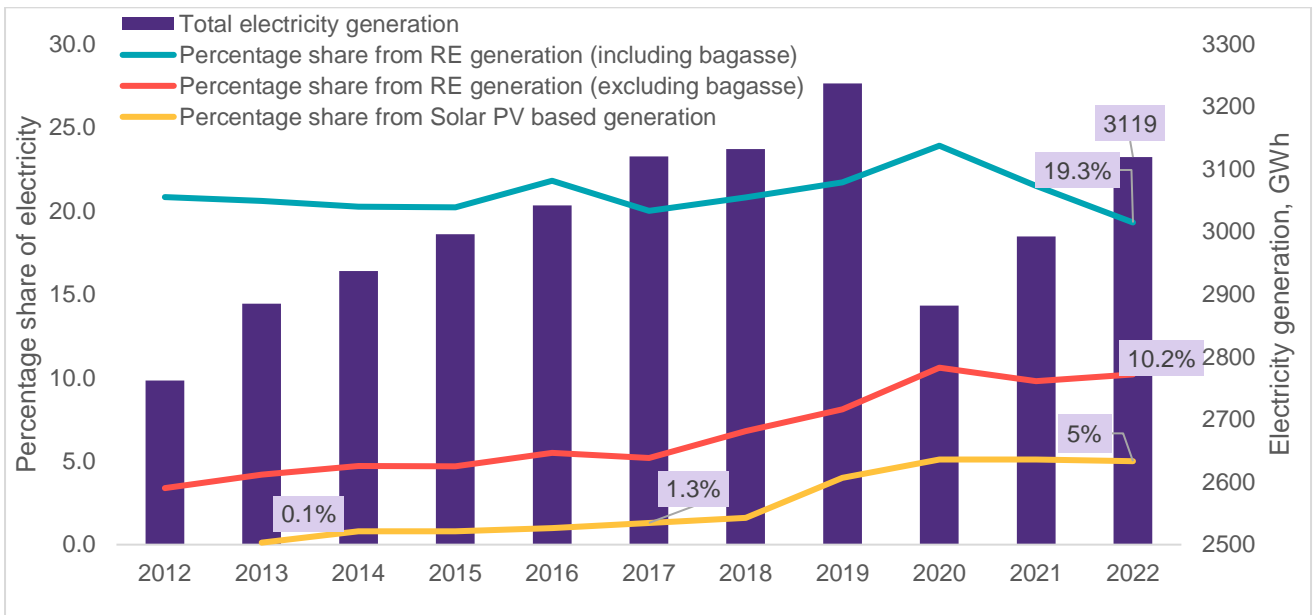
Tracking progress

Total greenhouse gas emissions (excluding LULUCF) in 2022 were 5901 Gg CO₂ equivalent, as against a BAU projection of 6492 Gg CO₂ equivalent, which is a 10% reduction from BAU scenario. In consideration of the

contribution from LULUCF activities (approximately 430 Gg CO_{2e}), the total greenhouse gas emissions in 2022 were 5471 Gg CO_{2e}. The BAU emission projections, emissions till 2022 and the required emission reduction trend till 2030 are shown in figure below.



Mauritius has increased the share of RE especially solar energy in the electricity generation mix from 2017 onwards. Figure below shows the increasing trend of RE penetration in Mauritian grid.



The country has achieved considerable emission reductions by reducing coal use for electricity generation. Mauritius plans to completely replace coal by 2030 to meet its NDC target. However, in the transport and waste sector, the country witnessed sharp increase in emissions mainly due to the increase in emissions from road transport and solid waste.

Various policies, actions and plans have been formulated and enacted to mitigate impacts of climate change. Some of the key interventions under each sector are provided in Chapter 2, section D.

RoM has applied flexibility for the following aspects in tracking progress made in achieving NDC:

Para 85 of Decision 18/CMA1: Each Party shall provide, to the extent possible, estimates of expected and achieved GHG emission reductions for its actions, policies and measures in the tabular format referred to in paragraph 82 above; those developing country Parties that need flexibility in the light of their capacities with respect to this provision are instead encouraged to report this information.

- *Republic of Mauritius has developed a Monitoring Reporting and Verification (MRV) portal and is currently building capacity of the stakeholders to monitor and report implementation status, impact of the mitigation actions including co-benefits using the tool.*

Measuring, reporting and verification (MRV) systems are key elements to be able to carry out reporting on NDC implementation progress, to assess whether set targets are being achieved as well as on monitoring financial, technology development and transfer and capacity building support needed and received. The improved monitoring is also a powerful tool to support national assessment of the effectiveness of climate policies and for policy making.

The Republic of Mauritius (RoM) has already started making progress in enhancing its transparency capacities through a variety of initiatives. It has formalized institutional arrangements for climate governance through its Climate Change Act of 2020, and through various projects actively enhanced capacities for MRV, including through the development of an online MRV system to track NDC mitigation and adaptation actions and support needed and received, the MauNDC Registry.

As part of its efforts to further enhance its transparency capacities RoM has requested support from the Initiative for Climate Action Transparency (ICAT) to amongst other operationalize its online NDC registry (MauNDC Registry), improve the assessment of impacts of climate policies and measures through the application of tools and ICAT methodologies, and also the implications, gaps and challenges in participating in carbon market.

Para 95 of Decision 18/CMA1: Projections shall begin from the most recent year in the party's national inventory report and extend at least 15 years beyond the next year ending in zero or five; those developing country Parties that need flexibility in the light of their capacities with respect to this provision have the flexibility to instead extend their projections at least to the end point of their NDC under Article 4 of the Paris Agreement.

- *Republic of Mauritius will consider end of NDC period, 2030 as the endpoint of projections as the policies and measures in place for mitigation actions are all targeted towards 2030.*

Para 102 of Decision 18/CMA1: Those developing country Parties that need flexibility in light of their capacities with respect to paragraphs 93-101 above can instead report using a less detailed methodology or coverage.

- *To the extent possible, detailed projections of GHG emissions for each sector of the economy for Republic of Mauritius is provided in CO₂ equivalent emissions terms till 2030. However, projections for individual greenhouse gases will be incorporated from BTR2 onwards.*
- *The IPCC 2019 Refinement of the 2006 IPCC Guidelines provides updated methodology and emission factors for estimating GHG emissions from the solid waste and wastewater subsectors within the waste sector. Republic of Mauritius seeks flexibility on the use of the new methodology and emissions factor. Mauritius intends to conduct measurement-based study to check applicability of the revised methodology and emission factors for the waste sector in the country's context. The updated methodology and emissions factors will be used for BTR3.*

Areas of improvement in relation to reporting




Republic of Mauritius is currently in the process of improving the national GHG inventory by developing tier 2 and 3 emission factors for energy and AFOLU sectors under the GEF-CBIT project. In addition to these above activities, there is a need for the country to estimate emission factors for the solid waste and wastewater sector, in line with the methodology in 2019 Refinement of the 2006 IPCC GHG inventory guidelines.

The Department of Climate Change, under the MoESWMCC can have a dedicated cell for collection, monitoring and maintaining data related to GHG inventory and MRV of the mitigation actions.

Chapter 3: Information related to climate change impacts and adaptation under Article 7 of the Paris Agreement




Mauritius is part of the Small Island Developing States (SIDS) and is majorly impacted by climate change. In recent years, it faced numerous climate-related challenges and disasters cyclones, storm and tidal surges, torrential rains, floods and flash floods, landslides, tsunamis, heat stress. Mauritius recently suffered a flooding event in Port Louis in January 2024 after the passing of cyclone Belal. Similarly, in April 2024, Mauritius experienced torrential rainfall and flooding. These disasters heavily impacted the country by causing widespread destruction of residential buildings and infrastructure. In financial terms, Mauritius faced economic losses of up to USD 325,000 due to the closure of banks, and agricultural losses of up to USD 7 million. It is projected that in the future the climate-related adversities and the negative impacts associated with them will increase. These would include extreme temperatures, erratic rainfalls, and sea level rise. It is also estimated Mauritius will be a water scarce region by the year 2030. Projections also indicate distortions in climatic conditions like reduced precipitation by 13 per cent by 2050. They also highlight that the island is expected to experience a major increase in hot days and nights, there will be a greater number of days exceeding the temperature of 35 degrees Celsius between November to May by 2050, which will surpass the observed values of 1986 to 2005. The World Risk Report of 2023 ranked Mauritius as 106th out of 193 countries with the highest disaster risk. Geographically as well, Mauritius is located in an active cyclone basin making it more exposed and vulnerable to hazards as compared to other regions. These would have a significant impact on the country and its people thus it is imperative for Mauritius to strengthen resilience and decrease vulnerability by developing and adopting comprehensive adaptation strategies and measures.

An overview of the climate risks and impacts in Mauritius is given in table below.

Sector	Climate Impacts	Risks to Sustainable Development
Water Resources 	<ul style="list-style-type: none"> Decrease of annual rainfall Increase in extreme precipitation Increased run-off and evapotranspiration 	<ul style="list-style-type: none"> Water scarcity: Utilizable water resource to decrease by 13% by 2050. Mauritius to become water scarce region by 2030¹
Agriculture 	<ul style="list-style-type: none"> Rising temperatures → shifts in agricultural zones and lower crop productivity and increases in pests and crop disease Increased rainfall variability → impact on crop development (drought and flooding damage) 	<ul style="list-style-type: none"> Decreased food security, in particular for poor household relying on subsistence farming and with low capacity for investments Decreased yield of key cash crops – e.g. projected sugar cane yield reduction of up to 48%
Fisheries/blue economy 	<ul style="list-style-type: none"> Increased sea temperature → coral bleaching, algal bloom and changed biodiversity Increased run-off and sedimentation in lagoons Increased cyclonic activity 	<ul style="list-style-type: none"> Reduced food security through: <ul style="list-style-type: none"> -Lower total catch size² - Increased toxicity of fish catch (algae related) - Cyclones preventing fishermen going to sea and destroying boats and equipment

¹ In Mauritius, approximately 50% of all potable water abstraction is from coastal aquifers, making the issue of saltwater intrusion even more pronounced

² During the 21st century, under high emission scenario, the habitat of tropical tuna in the Indian Ocean will gradually shift outside the equatorial regions, to the south (10°S – 30°S), compared to now (10°N - 10°S), thus decreasing the access to tuna in the Mauritius Exclusive Economic Zone.

Sector	Climate Impacts	Risks to Sustainable Development
 Coastal areas	<ul style="list-style-type: none"> Sea level rise and increased cyclonic activity → temporary coastal flooding and accelerated beach erosion. 	<ul style="list-style-type: none"> Reduced income potential from tourism (up to US\$ 50 million/year by 2050)³ Loss of coastal infrastructure
 Health	<ul style="list-style-type: none"> Extreme weather events Heat Flooding and drought 	<ul style="list-style-type: none"> Direct health impacts of extreme weather events Increases in water-borne and vector-borne diseases Nutritional impacts of food and water scarcity
 Infrastructure	<ul style="list-style-type: none"> Extreme weather events Flooding Sea level rise 	<ul style="list-style-type: none"> Loss of critical infrastructure, including housing, roads and coastal⁴.

The adaptation priorities of Mauritius have been elaborated in the National Climate Change Adaptation Policy Framework (NCCAPF) which are based on the climate projections and the current climate situation. Specific policy measures have been developed for key priority sectors and same are discussed in detail in Chapter 3.

Chapter 4: Information on financial, technology development and transfer and capacity-building support provided and mobilized under Articles 9–11 of the Paris Agreement

Republic of Mauritius developed a Project Technical Committee under the chair of the Director of Climate Change to provide leadership to the BTR process and to deal principally with all technical aspects of the BTR/NIR and to support the work of the different TWGs.

Five TWGs have been established to oversee the implementation of climate change activities in the various key sector. The scope of the fifth TWG is to identify constraints and gaps, and related financial, technical and capacity needs / technology transfer & development/ capacity building needs of Mauritius.

Republic of Mauritius is currently not tagging and recording information separately on finance received and technology transfer. As such, all donor support received is covered under financial support received under Article 9 of Paris Agreement.

Republic of Mauritius has received bilateral and multilateral financial support for activities related to adaptation and mitigation. From 2017 onwards, Mauritius has received 118.05 million USD both as grant and loan from various donor agencies. Of this, USD 46.3 million was for Adaptation activities and USD 71.7 million for mitigation activities under Article 9 of Paris Agreement.

In its Second NDC submitted to UNFCCC, Mauritius mentioned that total financial needs to implement the NDC targets are estimated at USD 6.5 billion. The total needs for implementing the mitigation and adaptation actions

³ The coastal zone of the Republic of Mauritius is a valuable national asset with an estimated total annual economic value of USD 33 million (in 2010). According to the third national communication, a projected increase in the mean annual temperature increase, coupled with beach erosion, could lead to a reduction in tourist arrivals accounting for a revenue loss of at least USD 50 million/year by 2050.

⁴ The Port Louis harbor, e.g., has been identified as highly vulnerable and is likely to be significantly impacted by storm surges and rising sea levels. This will have severe impact on maritime connectivity and shipping.

identified in the NDC are estimated respectively at USD 2 billion and USD 4.5 billion. The share for the unconditional and conditional contributions for the USD 6.5 billion is as follows:

- Unconditional amount of USD 2.3 billion (from government and private sector) representing 35%; and
- Conditional amount of USD 4.2 billion (from international sources and donor agencies) representing 65%.

Based on the information submitted to UNFCCC in the NDC, Republic of Mauritius requires USD 200 million per year for mitigation activities and USD 500 million per year for adaptation activities. Based on source of funding, USD 470 million is required per annum from bilateral and multilateral donor agencies. Considering the period from 2022 till 2024 (3 years considered as NDC was submitted in October 2021), financial support of USD 1.41 billion was required by Republic of Mauritius to implement adaptation and mitigation activities to meet NDC target. Of this, only USD 0.118 billion, representing 8.4% of the requirement has been mobilized till December 2024.

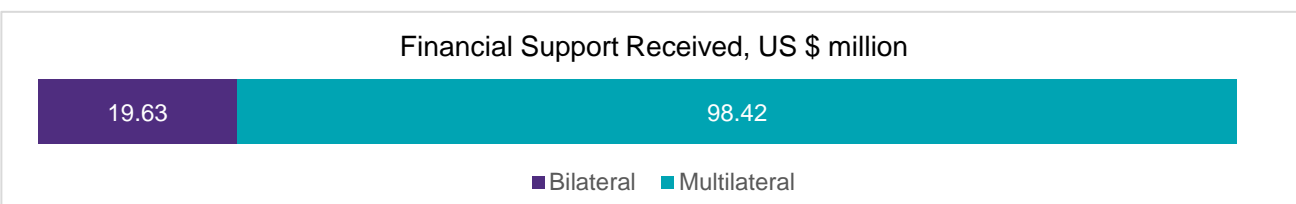
Contribution by type of support

Republic of Mauritius received financial support of **USD 118.05 million from 2017 till Dec 2024**. Of this, 11% representing USD 12.44 million were loan and remaining 89% representing USD 105.6 million were grant. Loans were provided by Abu Dhabi Fund and African development Bank for renewable energy integration projects.

Contribution by channels

The donor agency wise support received by Mauritius from 2017 onwards is shown in table below.

Agency	Amount (USD mn)
Green Climate Fund	38.51
Global Environment Facility	37.35
UNEP CCC - Danish Government	0.13
Adaptation fund	4.44
Agence Française de Développement	9.20
UNDP Climate Promise	0.27
European Union	13.15
Global Climate Change Alliance (GCCA+) and European Union	2.26
United Kingdom	0.25
Southern African Development Community (SADC)	0.05
Abu Dhabi Fund	10.00 (Loan)
African Development Bank	2.44 (Loan)
Total	118.05



The details of the projects funded by various donor agencies are provided in Chapter 4.

Flexibility

Since Republic of Mauritius is not separately tagging technology support received and required, all information of support received is reported under financial support received and required.

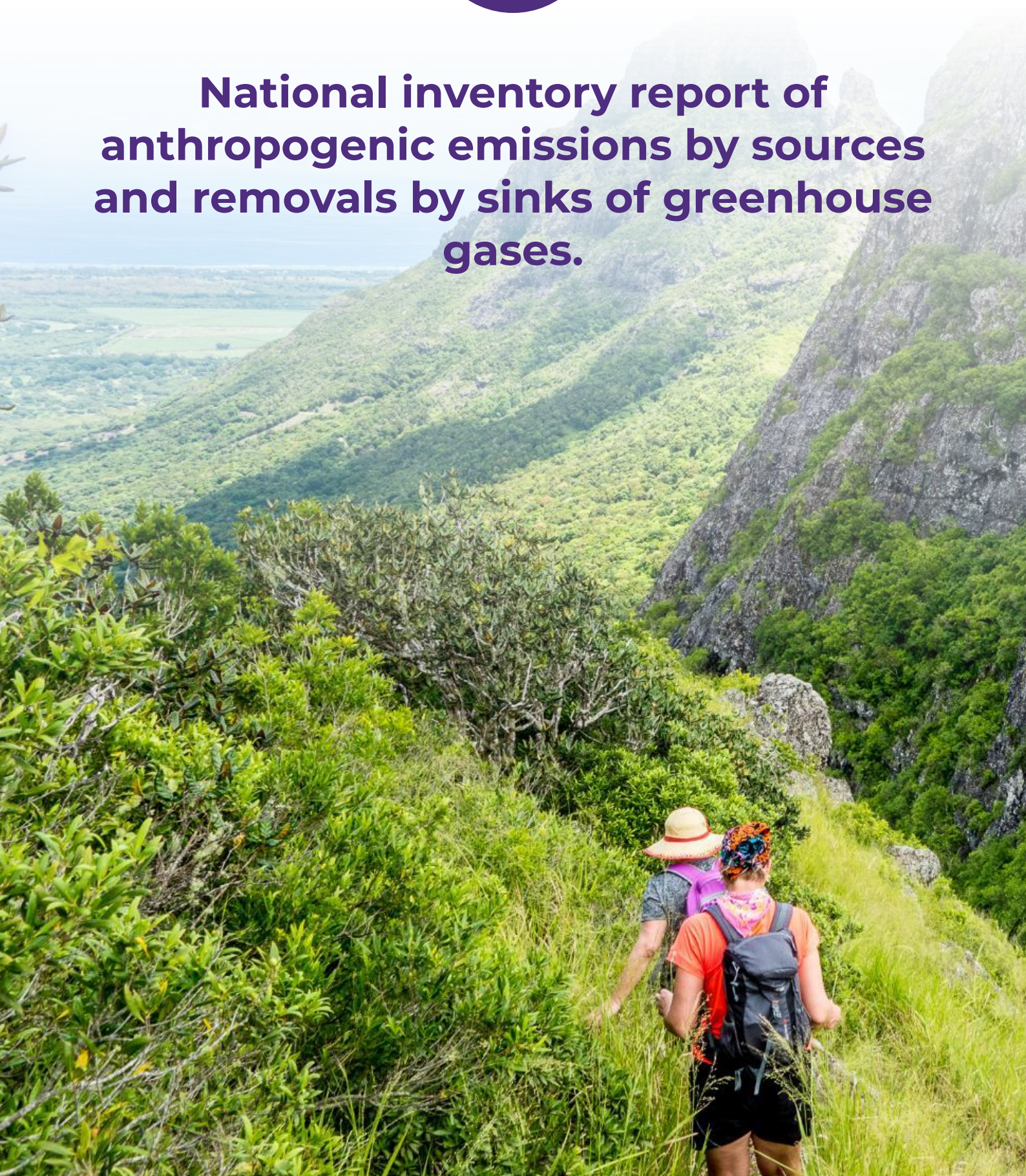
Areas of improvement in relation to reporting

The following areas of improvement were identified after discussion with stakeholders:

- Mauritius has estimated the quantum of external financial support required for meeting NDC target (conditional portion). However, there is no clarity of the support required for individual sectors where reduction targets have been established, like energy (non-transport), transport, IPPU and waste.
- Mauritius also needs to identify the type of technology required for meeting its NDC target for each sector.
- As finance requirement is key to Mauritius reducing its national GHG emissions by 40% from 2030 BAU level, it is pertinent to explore the possibility of co-operation under Article 6.2 and 6.4 of Paris Agreement.
- A dedicated cell can be established under the Climate Change Department of MoESWMCC to monitor and evaluate the type of financial, technology and capacity building support required and received to ensure that the process of collecting and maintaining data is streamlined.

01

National inventory report of anthropogenic emissions by sources and removals by sinks of greenhouse gases.



Chapter 1: National inventory report

Overview

The Republic of Mauritius (RoM), a Small Island Developing State (SIDS), is in the southwest of the Indian ocean. The Republic of Mauritius consists of the Islands of Mauritius (1,868.4 km²), Rodrigues (110.1 km²), Agalega, Tromelin, Cargados Carajos (28.7 km²) and the Chagos Archipelago, including Diego Garcia and any other island comprised in the State of Mauritius. The Republic of Mauritius has an Exclusive Economic Zone (EEZ) of approximately 2.3 million km².

Republic of Mauritius is submitting its national updated inventory and BTR with the aim of submission by 31st December 2024. The key features of national inventory are as follows:

- The total net emissions of Republic of Mauritius were 5471 Gg CO_{2e} in 2022 showcasing an increase of 104% as compared to 2000 net emissions.
- The total emissions excluding LULUCF for RoM were 5901 Gg CO_{2e} representing an increase of 88% increase in 2022 as compared to the 2000 levels.
- The Net removals from the Land Use in 2022 were 429.6 Gg CO_{2e} which decreased by 7.4% in 2022 compared to 2000.
- Energy sector contributes to the largest share of GHG emissions (excluding LULUCF) with 75.7% share of emissions in 2022, followed by waste sector with 14.1% share and IPPU by 8.7% share.

A. Description of GHG emissions and removals

1. Overview of greenhouse gas inventory

Background of Greenhouse gas inventory in Republic of Mauritius

The Republic of Mauritius submitted its first inventory of GHG as part of its Initial National Communication in April 1999. Then, an improved standalone National GHG Inventory Report was developed by RoM during the preparation of the Second and Third National Communications. RoM submitted the National Inventory Report (NIR) along with the first Biennial Update Report (BUR) to UNFCCC in December 2021.

The Republic of Mauritius also is obligated to submit its national inventory for GHG emissions for the period 2000 to 2022 and its First Biennial Transparency Report (BTR) to the UNFCCC Secretariat. As SIDS, RoM can submit the National Inventory and BTR at its own pace, however, RoM intended to submit the BTR by 31st December 2024. Thus, The National Inventory has been developed for the time period 2017 – 2022 and updated for the time period of 2000 – 2016.

Brief about the methodology

RoM is submitting the national inventory document (NID) prescribed in the *Modalities, procedures and guidelines for the transparency framework for action and support referred to in Article 13 of the Paris Agreement* (Annex to Decision 18/CMA.1, hereinafter referred to as the “MPGs”) as a stand-alone report. Therefore, this chapter provides only a summary of the information in the report.⁵

Estimation methodologies for the GHG inventories are required to be in line with the *2006 IPCC Guidelines for National Greenhouse Gas Inventories*, which were made by the Intergovernmental Panel on Climate Change (IPCC), and RoM's estimation methodologies are in line with these guidelines.

⁵ Please refer to National Inventory document (NID) for further details

The typical methodology adopted for GHG emissions estimation consists of multiplying activity data (AD) by the relevant appropriate emission factor (EF).

$$\text{Emissions (E)} = \text{Activity Data (AD)} \times \text{Emission Factor (EF)}$$

The methodology approach used for each of the sectors are outlined below, but 3 general levels of complexity and detail of methods are defined in IPCC 2006 Guidelines.

- **Tier 1:** the simplest approach and uses IPCC default values. This method is defined to be used where limited activity data is available.
- **Tier 2:** involves the simple methods but include the use of country specific emission factors
- **Tier 3:** the most complex and cover the use of models or plant specific data to generate accurate GHG emission estimates.

RoM used appropriate tier values as per the activity data and emissions factors available in line with IPCC 2006 guidelines.

Sectors

The GHG national inventory is divided into four main sectors i.e. Energy, IPPU, AFOLU and Waste. Further each sector is subdivided into sub-categories.

Energy

Emissions from the energy sector are contributed from only one section in Republic of Mauritius - fuel combustion (1.A). Fuel combustion (1.A) includes emissions released into the atmosphere when fossil fuels (e.g., coal, oil products, and natural gas) are combusted. The emissions from fuel combustion (1.A) are a significant emission source, accounting for nearly 75.7% of total GHG emissions (excluding LULUCF) in RoM, It is composed of four subcategories: Energy industries (1.A.1), including emissions from mainly public electricity and heat production; Manufacturing industries and construction (1.A.2), including emissions from the manufacturing and construction industries; Transport (1.A.3), including emissions from the transport of passengers and freight; Other sectors (1.A.4), including commercial/institutional, residential, agriculture/forestry/fishing and 1.A.5.a – Stationary (non-specified) category.

Industrial Processes and Product Use (IPPU)

The Industrial Processes and Product Use (IPPU) sector deals with GHG emissions resulting from chemical and physical transformations in the industrial processes. The most significant category, in terms of GHG emissions, in the IPPU sector is the Product Use as Substitutes of Ozone Depleting Substances (ODS) (2.F), represented by stationary refrigerant and air conditioning and mobile air conditioning. The other categories include Metal industry (2.C), and Non-Energy Products from Fuels and Solvent Use (2.D).

Agriculture, Forestry and Other Land Use (AFOLU)

The AFOLU sector of Republic of Mauritius is a net sink. The AFOLU sector deals with GHG emissions resulting from agricultural and livestock activities (3.A) such as CH₄ as the result of enteric fermentation, CH₄ and N₂O generated in the treatment of manure excreted by cattle, etc. Aggregate sources and non-CO₂ emissions sources on land (3.C) is one of the other major emitters with emissions accounted from biomass burning and direct and indirect N₂O emission from managed soils and manure management. Harvested wood products (3.D.1) is the other minor category for emissions. The major category for sink is Land (3.B) use of mainly forest land (3.B.1) which turns the AFOLU sector of RoM into a net sink.

Waste

In the waste sector, GHG emissions from the treatment and disposal of waste are estimated for solid waste disposal (4.A) being the major category of emissions. The other subsectors such as biological treatment of solid

waste (4.B) and incineration (4.C) (waste incineration that involves the use of energy is covered in the energy sector) also contribute to the emissions. Wastewater treatment and discharge (4.D) from domestic, commercial, and industrial wastewater accounts for typically the second largest share in the waste sector. The waste to be covered in this sector is waste as defined under the 2006 IPCC Guidelines.

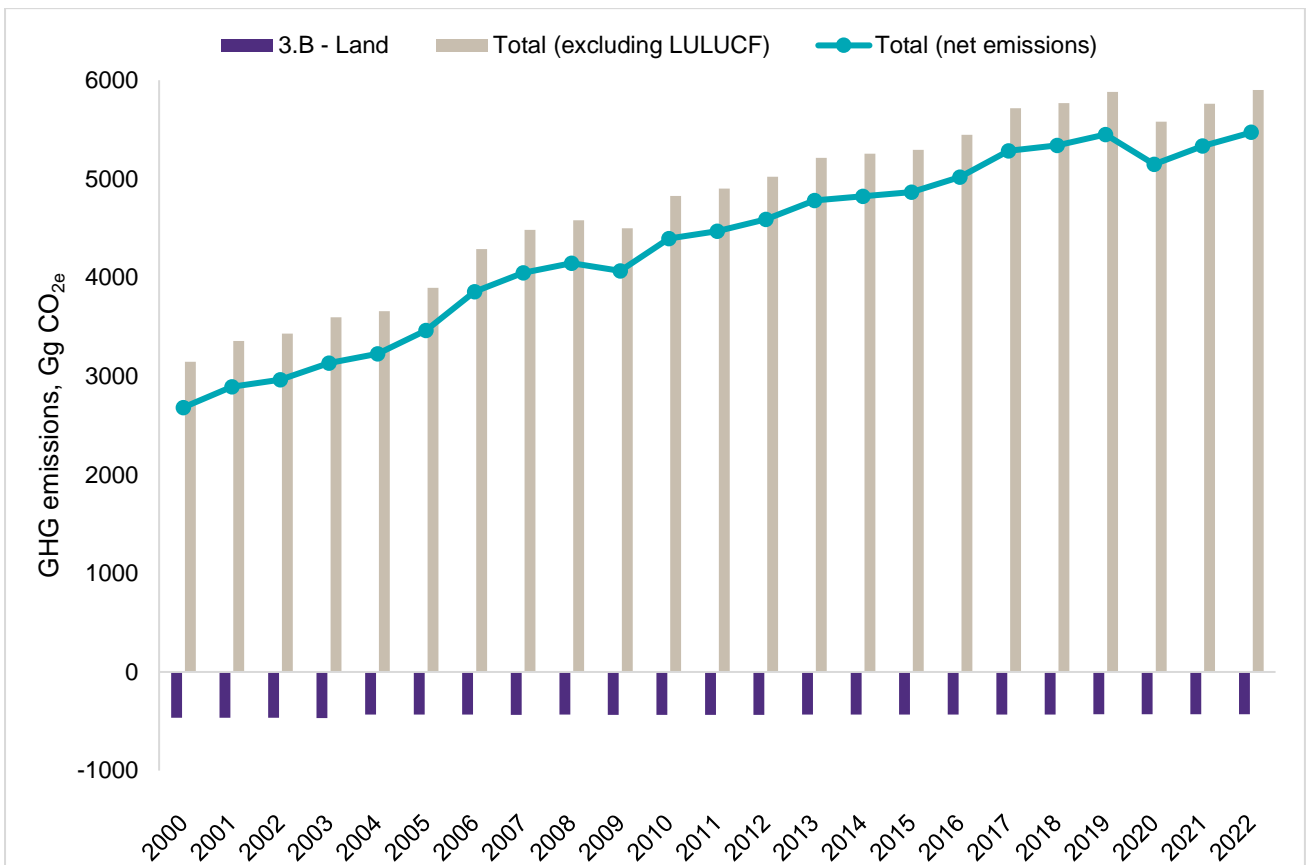
2. Trends in GHG emissions and removals

The National GHG Emission Inventory has been developed and updated for the time period 2000 – 2022. The total GHG emissions for Republic of Mauritius in 2022 (excluding LULUCF 3.B and 3.D) were **5901 Gg CO_{2e}**. This represents an increase of 88% in 2022 as compared to the 2000 levels.

Net removals (including CO₂, CH₄, and N₂O emissions) from the Land Use in 2022 were **429.6 Gg CO_{2e}** which accounted for 7.3% of total GHG emissions. Net removals decreased by 7.4% in 2022 compared to 2000.

The net emissions were **5471 Gg CO_{2e}** in 2022 showcasing an increase of 104% as compared to 2000 net emissions. The trend of total GHG emissions and removal in Mauritius from 2000 to 2022 is shown in Figure 1.

Figure 1: Trends in GHG emissions and removals in Republic of Mauritius



The trend of GHG emissions with reference to GDP growth and population for the period 2000 to 2022 are presented in Figure 2 and Figure 3. The GDP has grown 175% between 2000 and 2022, however the GHG emissions growth in the same period is 104%. The per capita emissions have increased from 2.65 tCO_{2e} in 2000 to 4.67 tCO_{2e} in 2022.

Figure 2: Trend of GDP growth vs GHG Emissions in Mauritius (2000-2022)

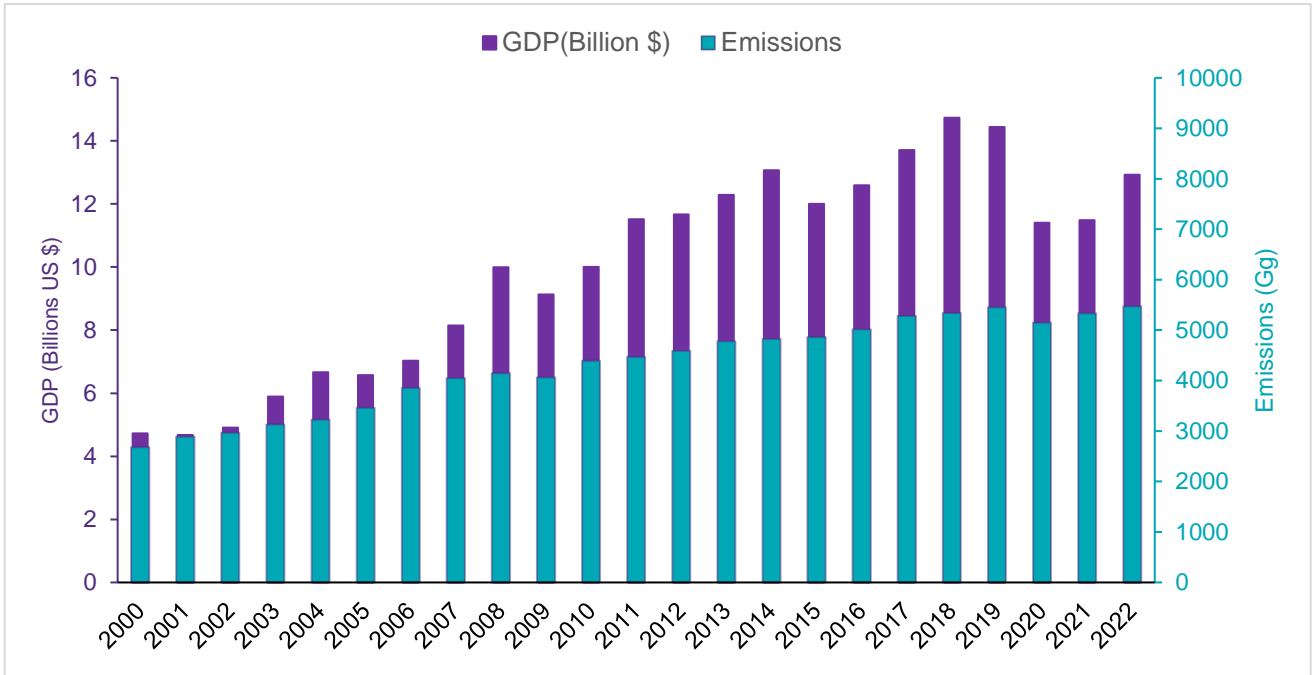
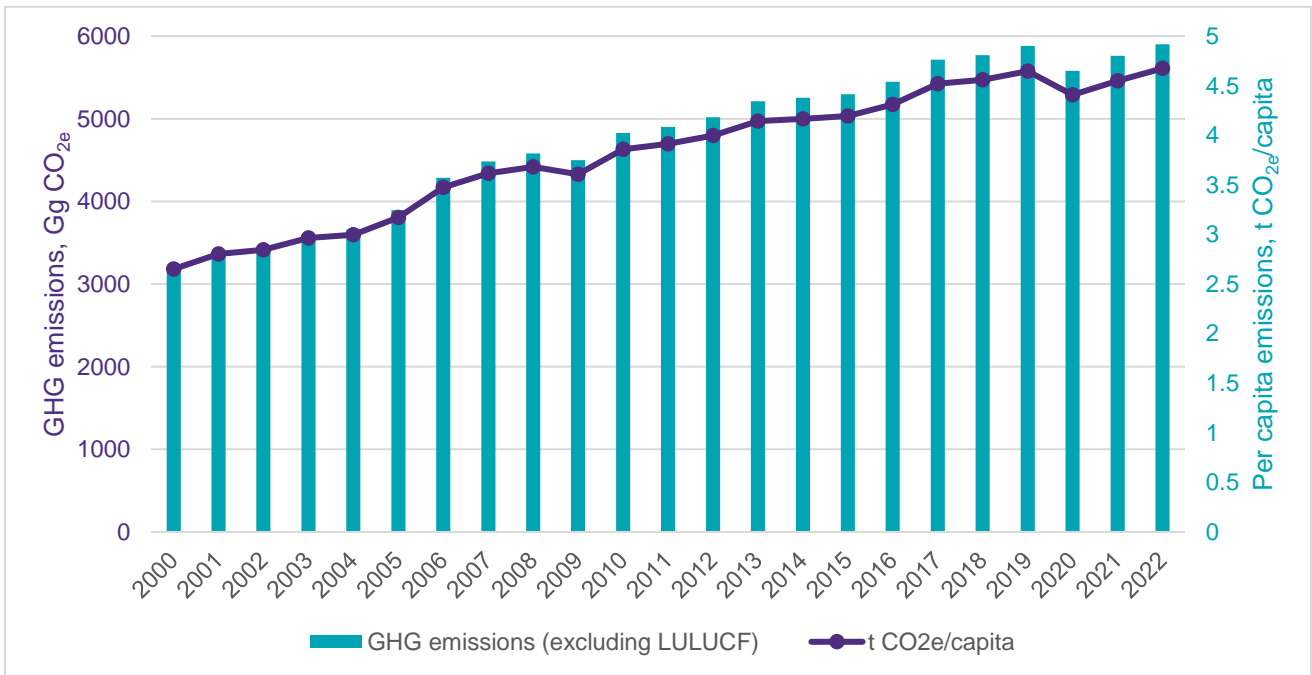


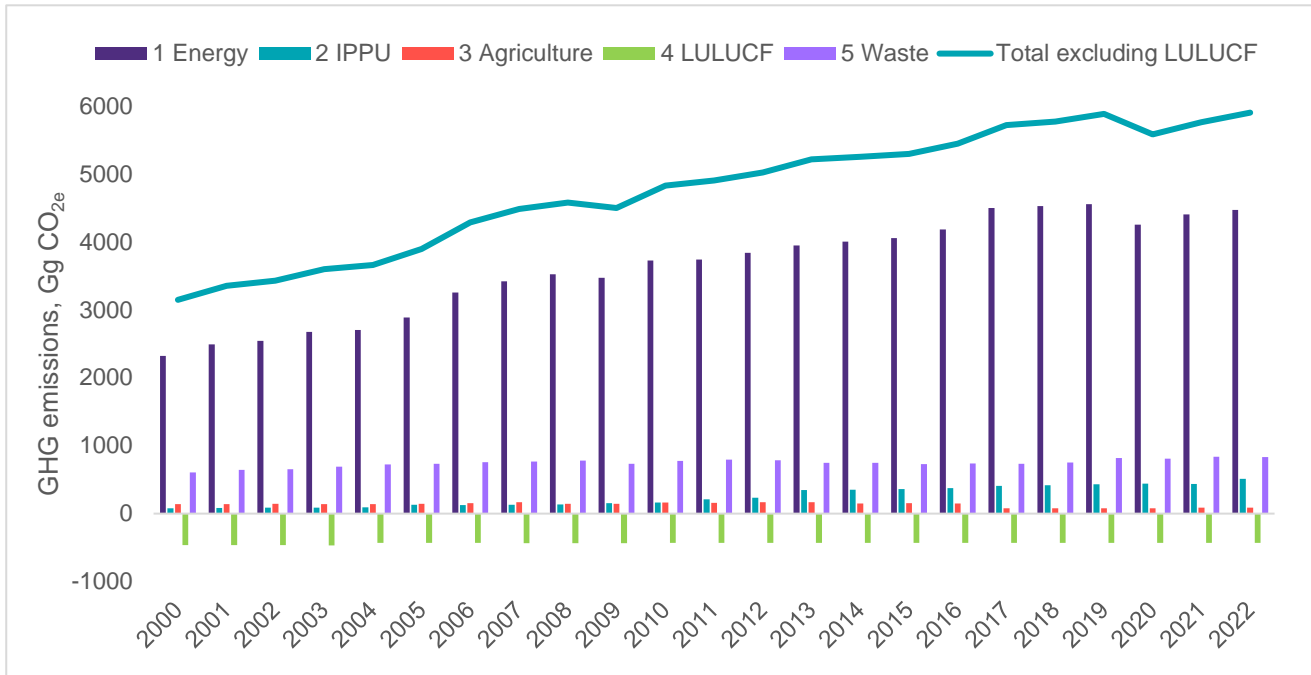
Figure 3: Trend of per capita GHG Emissions in Mauritius (2000-2022)



3. Trends in GHG emissions and removals by sector

GHG emissions in Mauritius are majorly from energy consumption, followed by waste, IPPU and agricultural sector. Energy sector represents 75.7% of the total emissions (excluding LULUCF). The sector wise emissions trends are showcased in *Figure 4*.

Figure 4: GHG emission trends in RoM from 2000 to 2022 by sector



Energy Sector

The CO_{2e} emissions from energy sector increased by 92.6% from 2000 to 2022. The biggest emitter of the sector are the energy industries, which represent the 52.4% (2,343 Gg CO_{2e}) of the total emissions of the sector in 2022, followed by the transport sector (1,512 Gg CO_{2e}) led by the road transport category representing the 31.6% (1,412 Gg CO_{2e}). Manufacturing industries and construction, and "Other sectors", represent the 7.5% (334 Gg CO_{2e}) and the 6.2% (278 Gg CO_{2e}) of the total emissions of the sector in 2022 respectively.

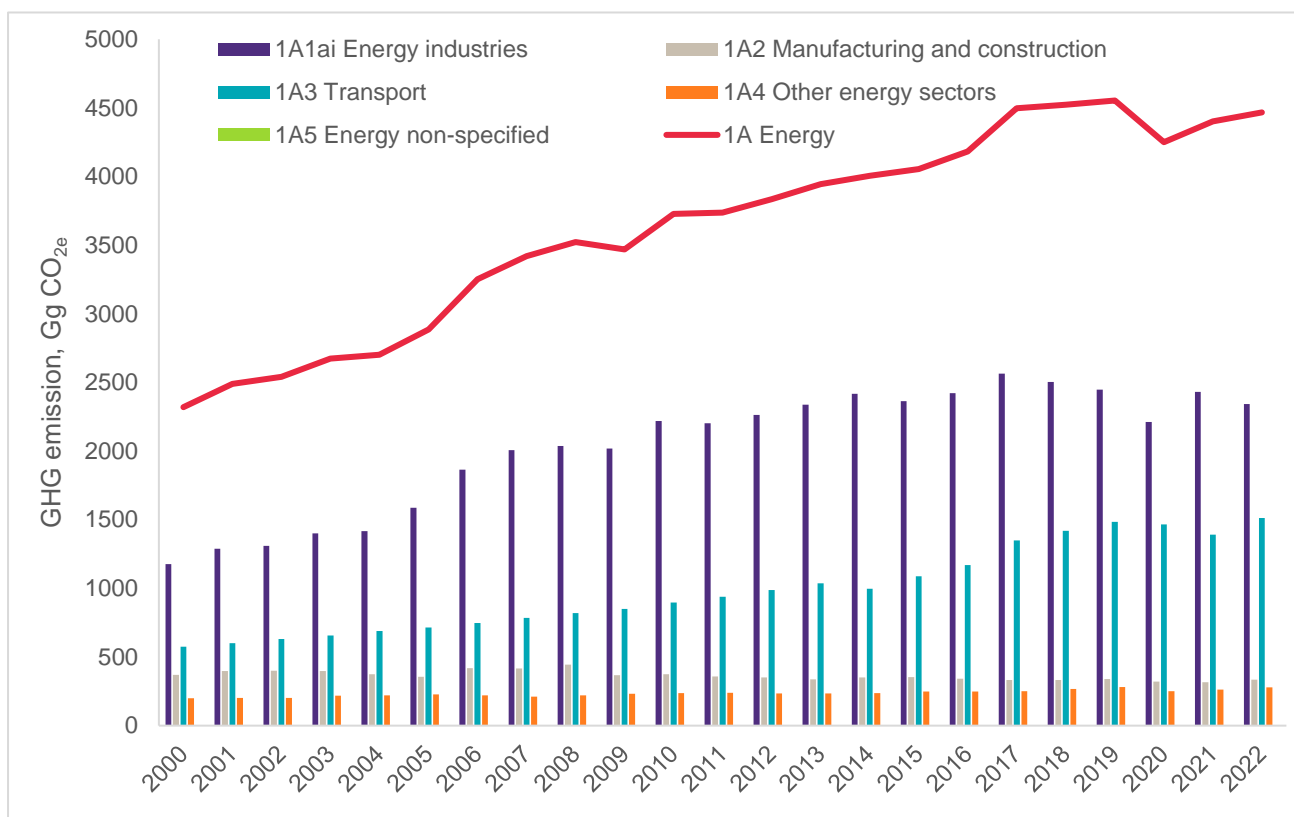
From 2017 onwards, energy industries showed a reduction in CO_{2e} emissions, due to the reduction in electricity generation from coal, which is compensated by an increase in electricity generation from fuel oil. In terms of electricity generation by energy industries, the fuel that generates the highest amounts of electricity is residual fuel oil, corresponding 41% of GHG emissions in energy industries, followed by coal which represents 58% of the emissions of the sector. The third fuel that generates highest amounts of electricity is the bagasse, which is a renewable resource and its CO₂ emission have not been accounted as it is a biogenic emissions source.

The transport category is the second biggest emitter of the energy sector. This category is divided into civil aviation, road transport, and water-borne navigation. In 2022, transport represented 31.6% of the total emissions of the energy sector (1,512 Gg CO_{2e}), and 93.4% (1,412 Gg CO_{2e}) of those emissions corresponds to the road transport category, while water-borne navigation represents 5.8% of the category's emissions (88 Gg CO_{2e}) and the civil aviation the remaining 0.6% (9.4 Gg CO_{2e}). Emissions from ground operation of Air Mauritius have been reported under 1A3e Other Transportation category. This category has experienced 163% increase in emissions from 2000 to 2022.

The emissions from manufacturing industries and construction remained almost constant from 2000 to 2022. In 2022, Manufacturing industries and construction represented 7.5% of the total emission of the energy sector (334 CO_{2e}).

The GHG emission trend of the energy sector (including various categories) for the Republic of Mauritius from 2017 to 2022 is shown in *Figure 5*.

Figure 5: GHG emission trend of energy sector of RoM from 2000 to 2022



Industrial Process and Product Use (IPPU) Sector

The GHG emissions from the IPPU Sector have experienced 536% increase from 2000 to 2022 (81 Gg CO_{2e} to 513 Gg CO_{2e}).

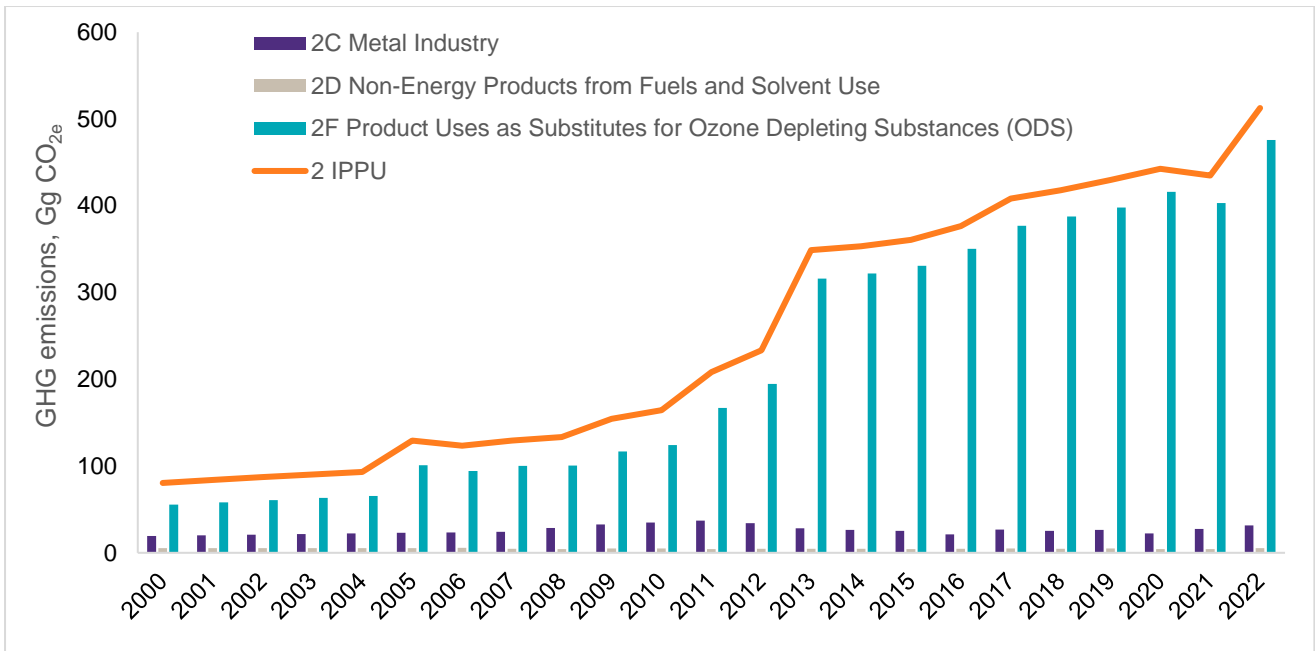
The most significant category, in terms of GHG emissions, in the IPPU sector is the Product Use as Substitutes of Ozone Depleting Substances (ODS), represented by 'Refrigeration and Stationary Air Conditioning' and 'Mobile Air Conditioning'. This category represents 92.8% of total emissions in IPPU sector. GHG emissions of stationary air conditioning category have increased 747% from 2000 to 2022. The 'Refrigeration and Stationary Air Conditioning' category represents 97.8% of the emissions from Product Use as Substitutes of Ozone Depleting Substances (ODS) category (466 Gg CO_{2e} in 2022) and remaining 2.2% (10 Gg CO_{2e} in 2022) is from mobile air conditioning.

In 'Refrigeration and Stationary Air Conditioning' sub-category, the most used substances are HFC-125, HFC-134a, HFC-143a, HFC-32 and HFC-23. For the mobile air conditioning sub-category, the only HFC substance used corresponds to HFC-134a.

The Metal Industry, represented by the Iron and Steel Production Industries, contributed to 6.2% of the total GHG emissions of the IPPU sector in 2022. Emissions from the iron and steel sub sector have increased by 62% from 19.6 Gg CO_{2e} to 31.6 Gg CO_{2e}.

RoM also has emissions from the use of lubricants in the industrial sector, as non-energy products. The emissions from this category represent 1% of the total emissions of IPPU sector. The GHG emission trend of the IPPU sector for RoM from 2000 till 2022 is shown in [Figure 6](#).

Figure 6: GHG trends in IPPU sector in RoM from 2000 to 2022

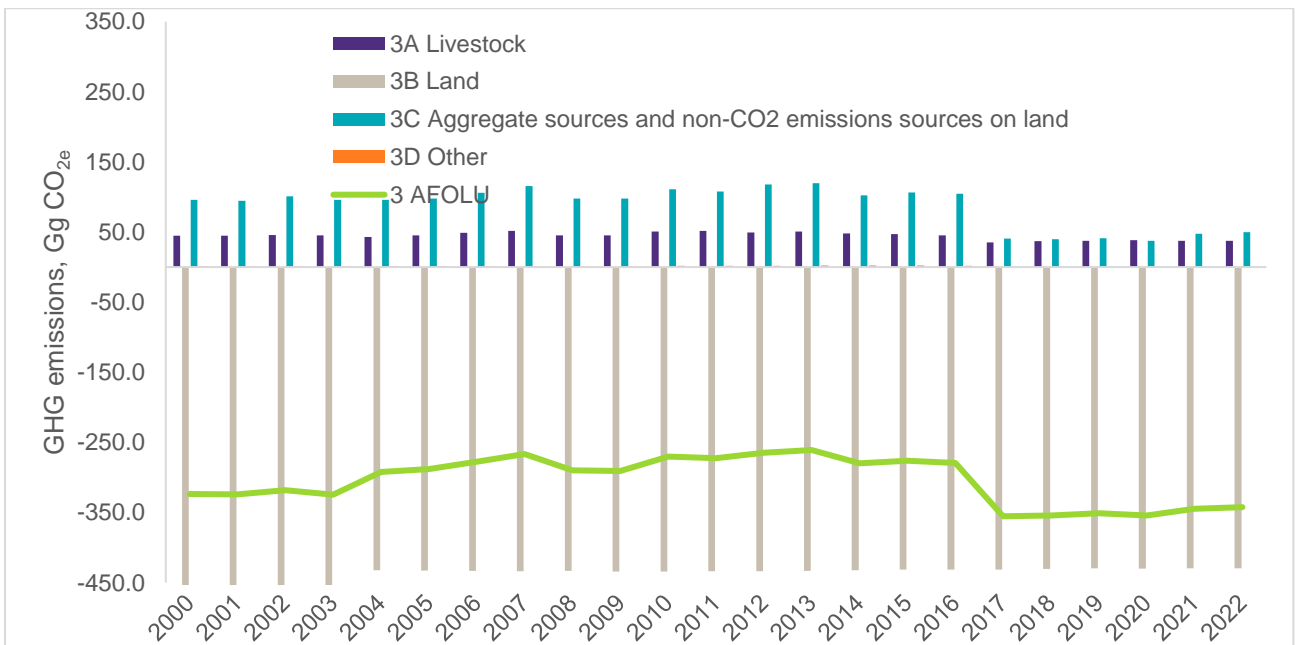


Agriculture, Forestry and Land Use (AFOLU) Sector

The AFOLU sector of RoM is a net sink. The net removals (emissions – removals) in Mauritius have reduced 5.5% from 2000 to 2022. GHG emissions from agriculture (categories 3.A and 3.C) show a reduction of 37% from 2000 to 2022 (140 Gg CO_{2e} to 88 Gg CO_{2e}). GHG removals from LULUCF (categories 3.B and 3.D) show a reduction of 7.4% from 2000 to 2022.

In 2022, the most important category in terms of removals is Forest Land (3.B.1) with -430 Gg CO_{2e}. Livestock (3.A) emissions decreased 16% from 44.7 Gg CO_{2e} in 2000 to 37.3 Gg CO_{2e} in 2022. The GHG emission trend of the AFOLU sector for RoM from 2000 till 2022 is shown in Figure 7.

Figure 7: GHG trends in AFOLU sector in RoM from 2000 to 2022



Waste Sector

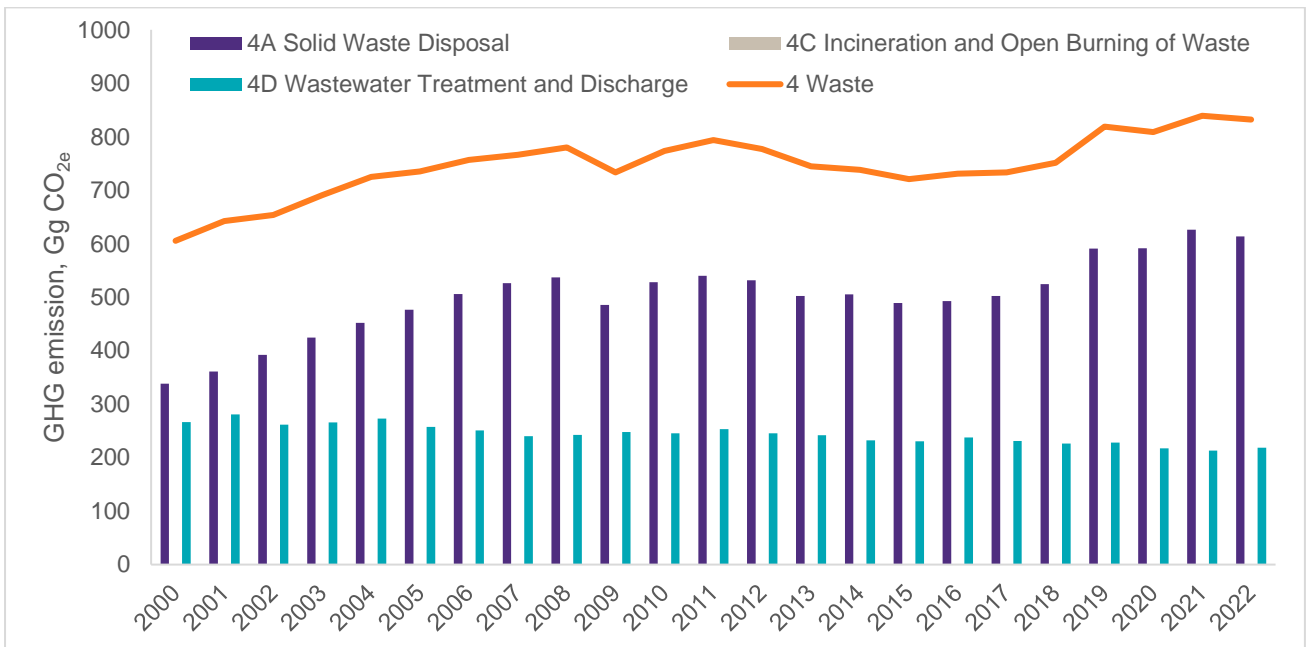
The GHG emissions from the Waste Sector increased 37.4% from 2000 to 2022 (from 605 GgCO_{2e} in 2000 to 832 GgCO_{2e} in 2022).

The most significant category, in terms of GHG emissions, for this sector is the solid waste disposal category, which represents 73.7% of the total GHG emissions of this sector in 2022.

The second category that contributes most to the emissions in this sector is the wastewater treatment and discharge representing 26.2% of the total GHG emissions in the sector in the year 2022. The emissions in this category have experienced 18% decrease from 266.4 Gg CO_{2e} in 2000 to 218 Gg CO_{2e} in 2022.

There were no emissions from biological treatment of solid waste from 2017 to 2022 as the equipment was not in operation. Incineration represented 0.01% of the emissions from waste sector in 2022. The GHG emission trend of the waste sector for RoM from 2000 till 2022 is shown in *Figure 8*.

Figure 8: GHG emission trends of waste sector for RoM from 2000 to 2022



4. Trends in GHG emissions and removals by gas

In 2022, CO₂ emissions were 4,023 Gg CO₂, accounting for 73.5% of total GHG emissions (excluding LULUCF). CH₄ emissions (excluding LULUCF) were 864 Gg CO_{2e} (15.8%), N₂O emissions (excluding LULUCF) were 108.6 Gg CO_{2e} (2.0%), and total emissions of HFCs in 2022 were 476 Gg CO_{2e} (8.7%).

The trend of CO₂, CH₄, N₂O and HFCs emissions from 2000 to 2022 are provided in *Figure 9*, *Figure 10*, *Figure 11*, and *Figure 12* respectively.

Figure 9: Trend of CO₂ emissions (2000-2022), Gg CO₂

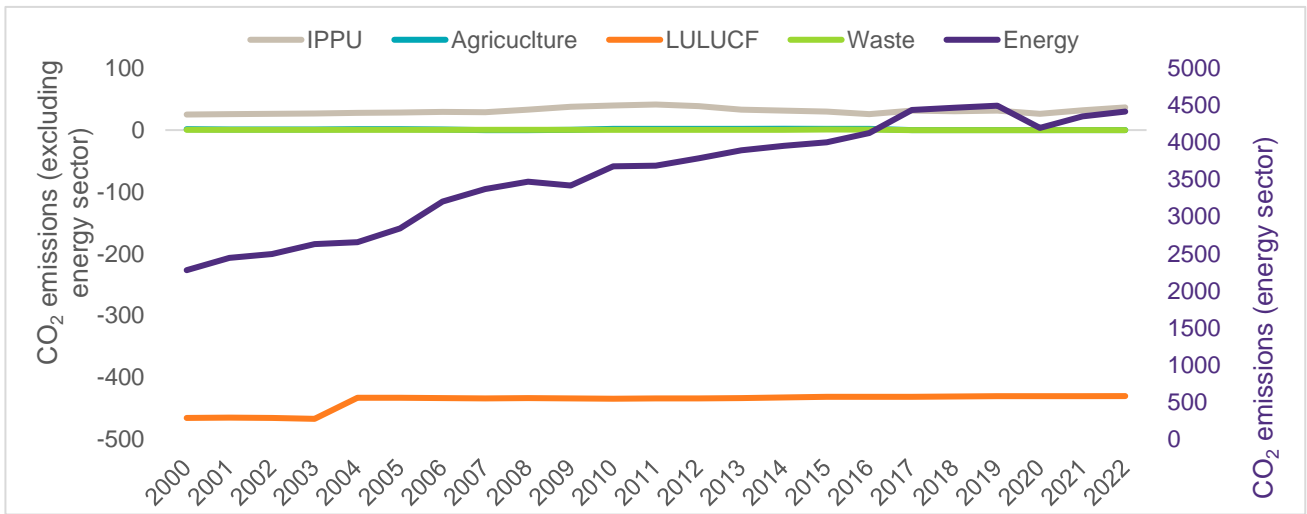


Figure 10: Trend of CH₄ emissions (2000-2022), Gg CH₄

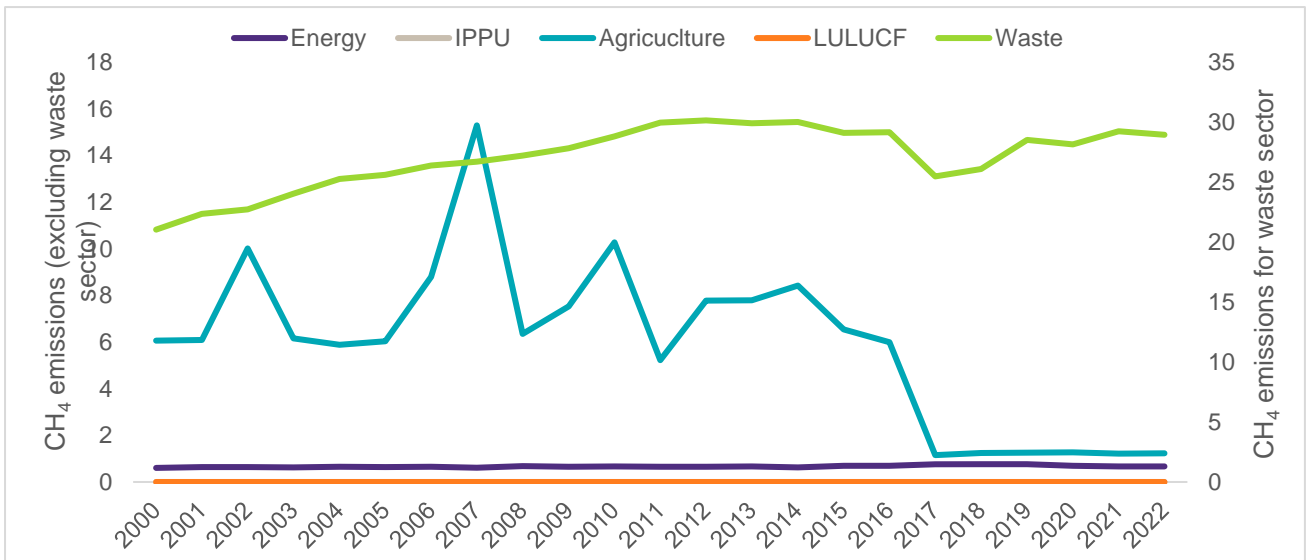


Figure 11: Trend of N₂O emissions (2000-2022), Gg N₂O

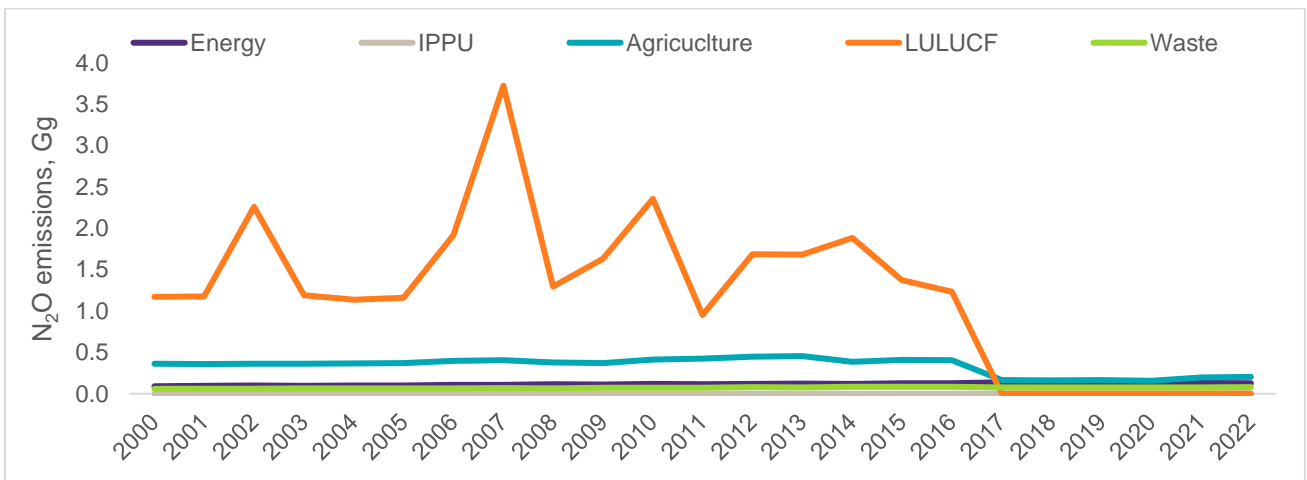
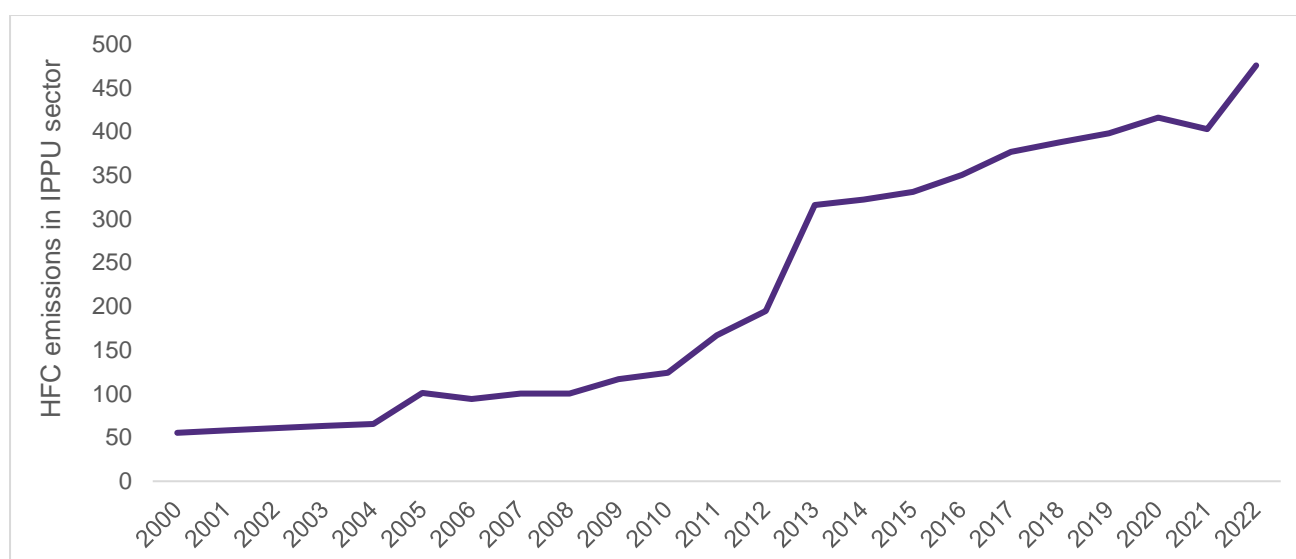


Figure 12: Trend of HFCs emissions (2000-2022), Gg CO_{2e}

5. Specific flexibility provisions applied

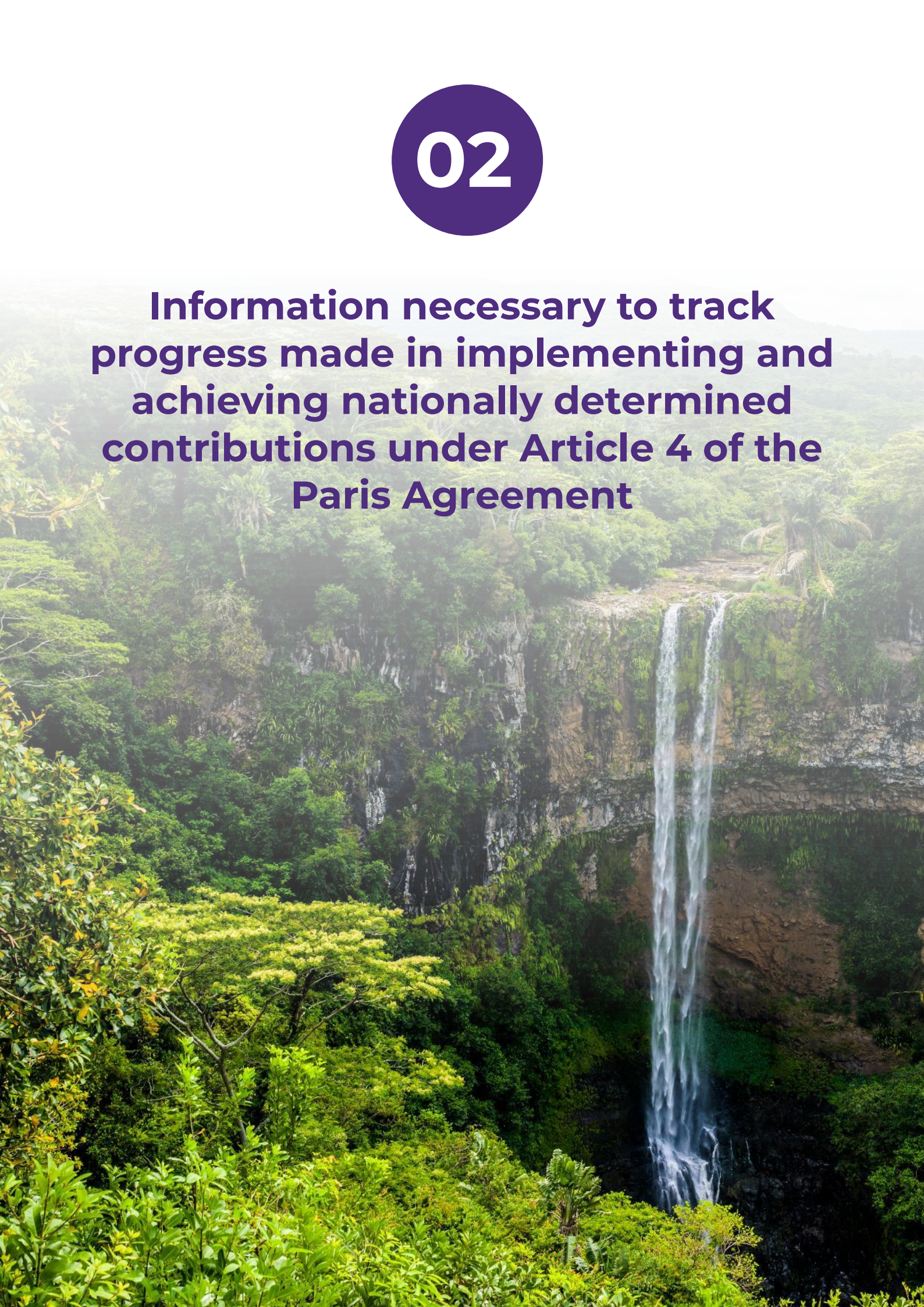
Para 85 of Decision 18/CMA.1: Each Party shall report a consistent annual time series starting from 1990; those developing country Parties that need flexibility in the light of their capacities with respect to this provision have the flexibility to instead report data covering, at a minimum, the reference year/period for its NDC under Article 4 of the Paris Agreement and, in addition, a consistent annual time series from at least 2020 onwards.

- *Republic of Mauritius has been maintaining the necessary data for developing GHG inventory from 2000 onwards.*



02

Information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement



Chapter 2: Tracking progress of NDCs

Overview

This chapter provides information on the Information necessary to track progress made in related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement along with Mitigation policies and measures, actions and plans.

A. National circumstances and institutional arrangements

1. National circumstances

Government Structure

a) Administrative Organization

The Republic of Mauritius has a long tradition of parliamentary democracy. The country was declared independent in 1968. The Constitution guarantees the separation of the legislative, executive and judicial powers. Since 1992, Mauritius is a Republic where the Head of State is the President of the Republic, and the Government is led by the Prime Minister. The Government is elected on a five-year basis. The Constitution provides for the Parliament of Mauritius to consist of the President and the National Assembly. The executive administers the affairs of the nation and is exercised by the Cabinet headed by the Prime Minister. Ministries are headed by Cabinet Ministers, who are responsible for the business of their respective Ministries in Parliament. The current list of Ministries of the Cabinet is as follows:

- | | |
|---|---|
| 1. Prime Minister, Minister of Defense, Home Affairs and External Communications, Minister of Finance, Minister for Rodrigues and Outer Islands | 12. Minister of Foreign Affairs, Regional Integration and International Trade |
| 2. Deputy Prime Minister and Minister | 13. Minister of Youth and Sports |
| 3. Minister of Housing and Lands | 14. Minister of Labour and Industrial Relations |
| 4. Minister of Environment, Solid Waste Management and Climate Change | 15. Minister of Land Transport |
| 5. Minister of Agro-Industry, Food Security, Blue Economy and Fisheries | 16. Minister of Gender Equality and Family Welfare |
| 6. Minister of National Infrastructure | 17. Minister of Commerce and Consumer Protection |
| 7. Minister of Health and Wellness | 18. Minister of Tertiary Education, Science and Research |
| 8. Minister of Tourism | 19. Minister of Industry, SME and Cooperatives |
| 9. Minister of Social Integration, Social Security and National Solidarity | 20. Minister of Education and Human Resource |
| 10. Minister of Financial Services and Economic Planning | 21. Minister of Information Technology, Communication and Innovation |
| 11. Minister of Energy and Public Utilities | 22. Minister of Public Service and Administrative Reforms |
| | 23. Minister of Local Government |
| | 24. Minister of Arts and Culture |

Reference: Government of Mauritius Website (https://pmo.govmu.org/Pages/My_Cabinet.aspx)

b) Department of Climate Change

The Climate Change Act of 2020 established the Department of Climate Change, along with other entities, to help Mauritius become a low-emission and climate-resilient country. The Department of Climate Change was established following the implementation of the Climate Change Act 2020 in April 2021. The Department of Climate Change is headed by its director. In line with the provisions of the Act, the Department of Climate Change is responsible to:

- Promoting adaptation and mitigation measures
- Developing and coordinating policies, projects, and action plans
- Overseeing the implementation of these plans

- Regulating the National Climate Change Adaptation Strategy and Action Plan
- Regulating the National Climate Change Mitigation Strategy and Action Plan
- Regulating the National Inventory Report
- Promote the implementation of Article 6 of the United Nations Framework Convention on Climate Change (UNFCCC) on education, training and public awareness on climate change and related matters

c) Budget for Global Warming and Climate Change Countermeasures

According to a study commissioned by the United Nations Development Programme (UNDP) Country Office, an amount of Rs 10.28 billion was spent from the national budget on climate-related measures (77% on adaptation measures and 23% on mitigation measures), representing 2.15% of Gross Domestic Product (GDP) or 7.02 % of total Government expenditure⁶. In its 2023 Annual Report for Mauritius, UNDP has reported that Mauritius allocated 12.7% of its national budget to climate actions⁷.

In the 2021/2022 budget, Government allocated MUR 2.2 billion for adaptation and mitigation projects under the National Environment Fund (NEF)⁸.

In the 2022/23 budget, Government allocated MUR 1 billion to the clean-up and embellishment programme as well as for the rehabilitation of beaches, lagoons and coral reefs. In addition, MUR 400 million was earmarked to undertake landslide rehabilitation works across the island while MUR 3.8 billion was assigned to continue the National Flood Management Programme⁹.

In the 2023/24 budget, Government earmarked¹⁰:

- Rs 3 billion investments for flood mitigation measures through drain projects across the country are planned as part of the wider flood mitigation programme.
- Rs 1.6 billion for projects to address climate change.
- Rs 278 million for beach rehabilitation works and cleaning of lagoons amongst other measures.
- 30% subsidy up to a maximum of MUR 3.5 million on the purchase of electric buses by bus companies and a loan at a concessional rate of 2% for the purchase of electric buses.

In the 2024/2025 budget, Government earmarked MUR 3.2 billion under the Climate and Sustainability Fund for projects addressing climate change. Moreover, a Corporate Climate Responsibility levy of 2 % of company's profits was introduced for companies having a turnover exceeding MUR 50 million to support natural ecosystem and climate change initiatives¹¹.

Population Profile

a) Population Structure

The Republic of Mauritius has a diverse population structure characterized by multiple ethnicities and cultures. As at end of 2023, the population stood at 1.26 million comprising 0.62 million males and 0.64 million females¹². Due to its small land size, Mauritius is among the countries with the highest population densities in the world (628 persons/km² in 2023¹). In the 1950s and 1960s, Mauritius experienced very high rates of natural population growth, peaking at 3.5% per year, followed by a very steep decline in fertility. The total fertility rate dropped from 6.2 children per woman in 1963 to 3.4 in 1971¹³ and reached 1.39 in 2023¹.

⁶ Tracking Public Sector Environmental Expenditure, 2018 – Reported in BUR.

⁷ UNDP, Mauritius Annual Report 2023.

⁸ Republic of Mauritius Budget 2021/22 Highlights

⁹ Republic of Mauritius Budget 2022/23 Highlights

¹⁰ Republic of Mauritius Budget 2023/24 Highlights

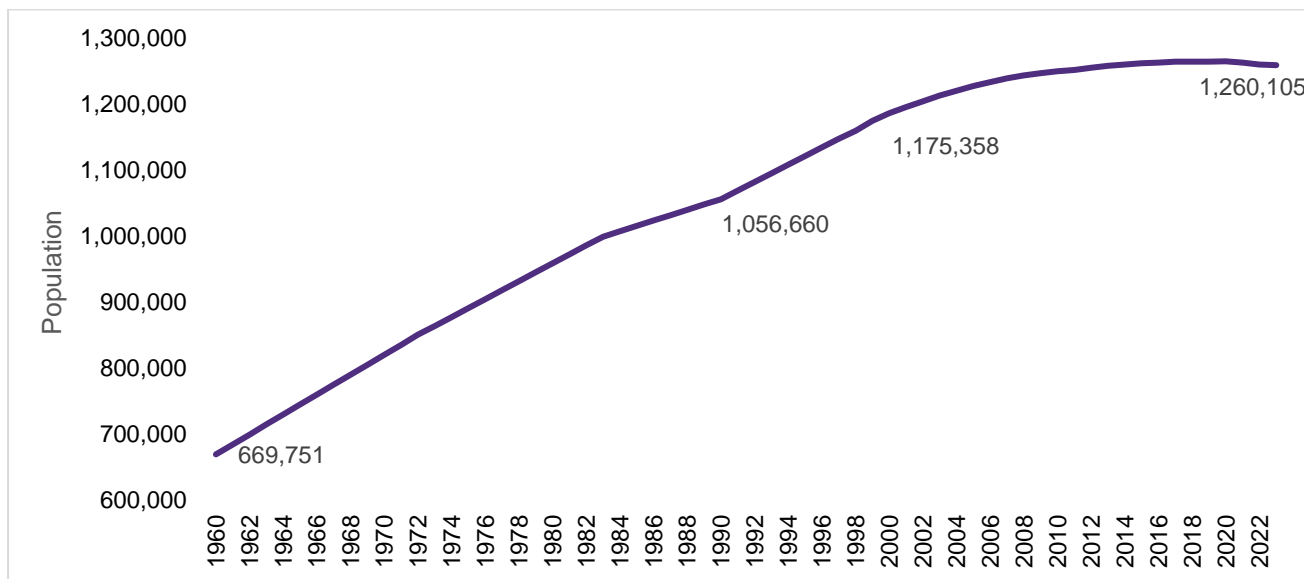
¹¹ Republic of Mauritius Budget 2024/25 Highlights

¹² Statistics Office - Digest of Demographic Statistics 2023

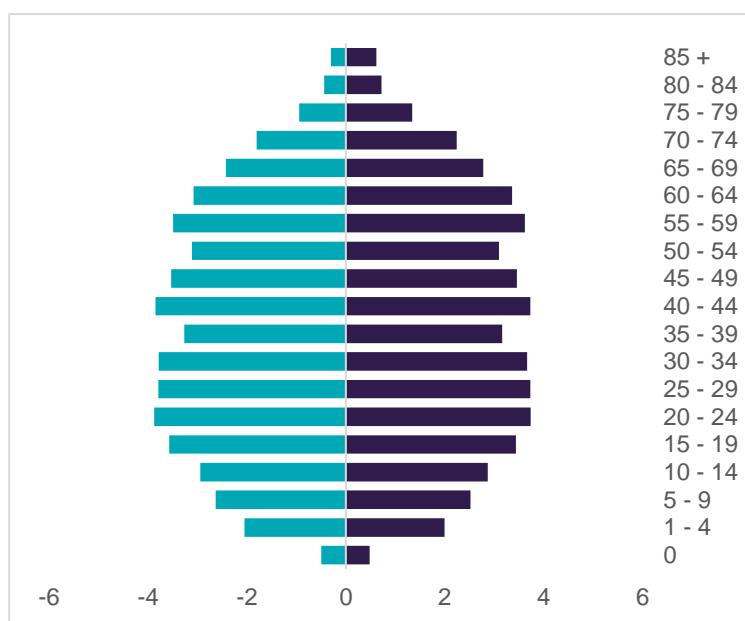
¹³ National Research Council, Division of Behavioral, Social Sciences and Committee on Population, 1993. Population and land use in developing countries: Report of a workshop. National Academies Press.

The population trend from 1960 onwards is depicted in Figure 13.

Figure 13: Population trend in Republic of Mauritius



Changes in the population structure of Mauritius from 2000 to 2011 and 2023 are illustrated in adjacent figure. The sharp decline in fertility rates has inevitably brought about the problem of ageing¹⁴. Thus, mean and median ages of the population have been increasing steadily since the 1980s. While these indicators were at 27.1 and 23.6 years respectively in 1985¹⁵, they increased to 32.2 and 30.4 years respectively in 2005¹⁶ while they reached 39.0 and 38.4 years respectively in 2023. Accordingly, the percentage of the population aged 60 years and above have increased from 7.4% in 1985⁴ to 9.6% in 2005⁵ and 20.1% in 2023¹. Projections made by Statistics Mauritius estimate this figure to rise up to 29.5% in 2048 as the overall population drops to 1,087,766.



b) Population Distribution

Analysis of migration data in the Republic of Mauritius takes into account movements between municipal wards (urban) and village council areas (rural) but does not consider movements within these areas. The movement of people has potential impacts on expanding economic opportunity and on the activities of daily life – for example, commuting to and from the place of work, shopping, visiting, among others¹⁷. Figure 15 shows the evolution of the urban population between 1990 and 2023. The number of people living in urban areas has been decreasing consistently during this period, from 43.9% in 1990 to 39.9% in 2023.

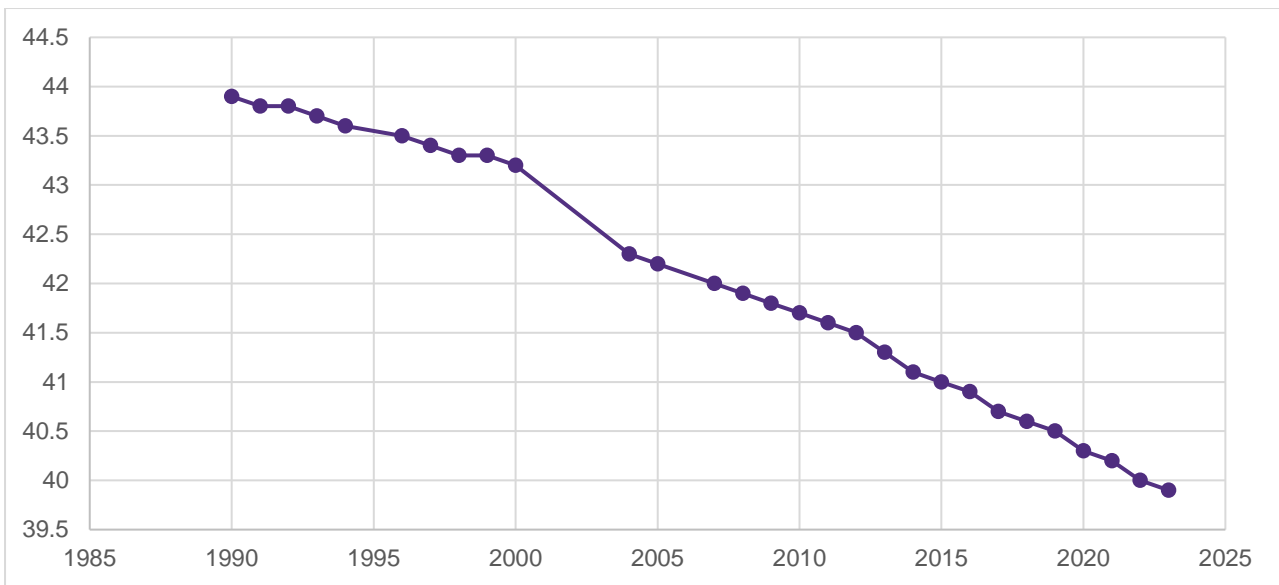
¹⁴ Suntoo, R., 2012. Population ageing and the theory of demographic transition: the case of Mauritius. University of Mauritius Research Journal, 18.

¹⁵ Statistics Office - Digest of Demographic Statistics 1985

¹⁶ Statistics Office - Digest of Demographic Statistics 2005

¹⁷ Migration in Mauritius: A COUNTRY PROFILE 2013 (IOM Development Fund)

Figure 15: Percentage urban population between 1990 and 2023¹⁸



c) Number of households

The number of private households in the Republic of Mauritius amounted to 369,000 in 2022, an increase of 7.8% from 342,360 in 2011¹⁹. The average household size decreased from 3.6 to 3.3 during the same period. Since 1990, as the number of households increased progressively, the number of persons per household decreased, mainly due to changes in the household structure, with a tendency to move toward nuclear families coupled with a reduction in the number of children per family resulting from the decline in the fertility rate. Figure 16 displays the trend of the number of households along with the number of people per household in the Republic of Mauritius during the period 1990 to 2022²⁰.

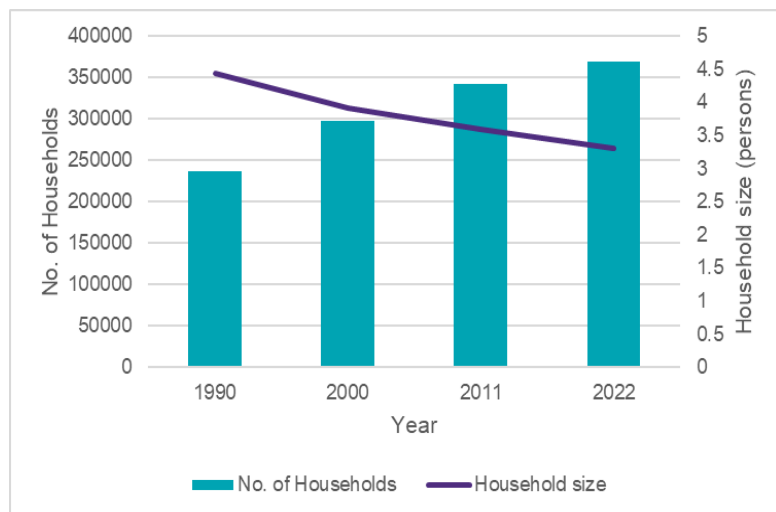


Figure 16: Number of households and number of people per household for the period 1990 to 2023

The proportions of households with energy-intensive appliances such as refrigerator, washing machine, microwave oven, vacuum cleaner and air conditioner has increased significantly over the last years. For example, only 16.1% of households had a microwave oven in 2002 compared to 69.4% in 2017. Figure 17²¹ presents the distribution of households equipped with some selected high-energy appliances during the period 2002 to 2017.

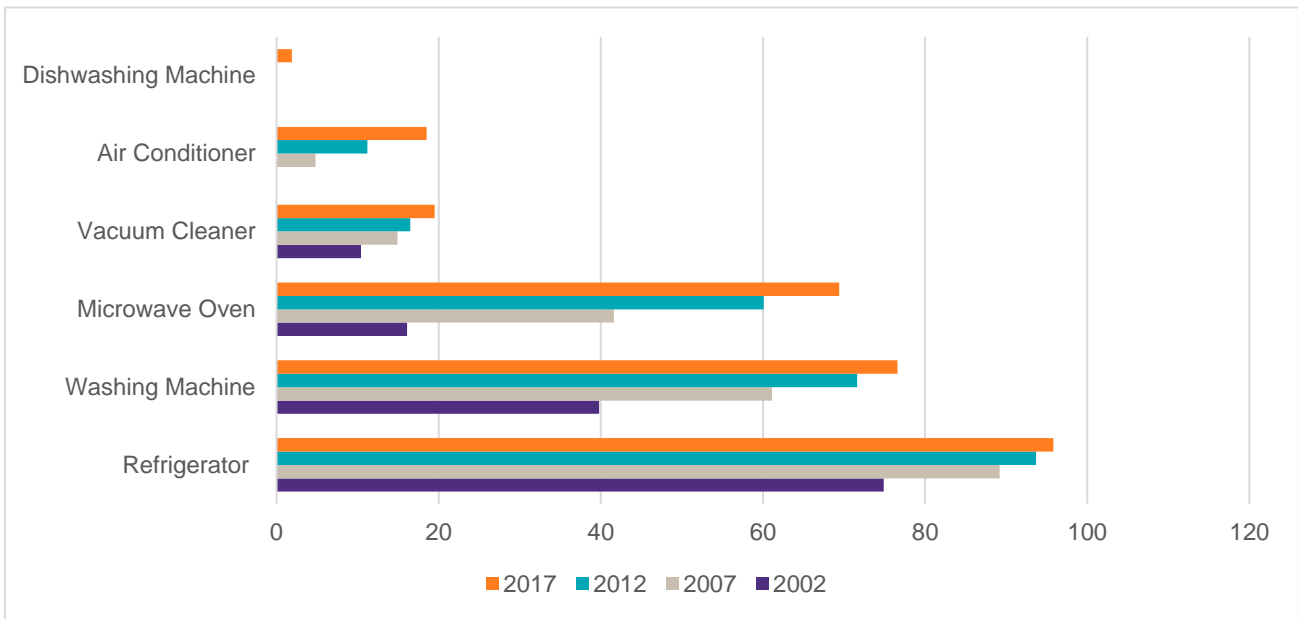
¹⁸ Statistics Office - Digest of Demographic Statistics

¹⁹ Statistics Mauritius – Census 2022

²⁰ Statistics Mauritius – Censuses 1990, 2000, 2011 and 2022

²¹ Statistics Mauritius - Household Budget Surveys 2002, 2007, 2012 and 2017

Figure 17: Distribution (%) of households with selected durable goods from 2002 to 2017



d) Impact on Greenhouse Gases

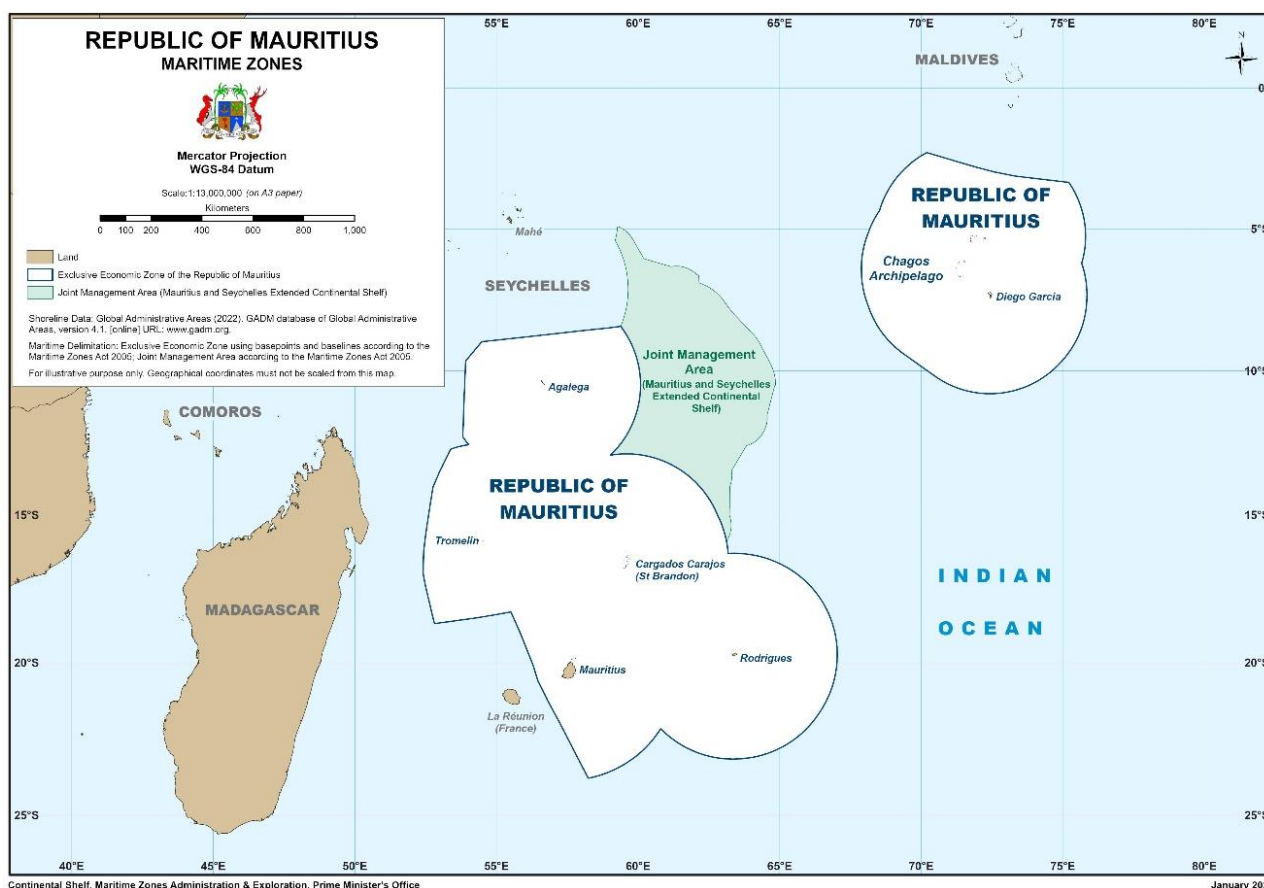
The steady trend in population statistics of the last decades indicate that the population of the Republic of Mauritius is set to decline progressively in the future, driven by a combination of factors including ageing residents and decreasing birthrates. Despite the overall population decrease, the number of households in on the rise, largely attributed to the increasing prevalence of nuclear families. This trend will likely lead to higher energy consumption per household given the surge in the number of energy-consuming appliances used.

Moreover, there is a distinct migration movement of the population towards rural areas in recent years, which may further contribute to additional greenhouse gas emissions. This transition often results in longer commuting distances for work or leisure, thereby increasing CO₂ emissions from the transport sector.

Geographical Profile

The Republic of Mauritius, situated in the southwestern part of the Indian Ocean, has a total land area of about 2040 km². It consists of the islands of Mauritius (1,868.4 km²), Rodrigues (110.1 km²), Agalega, Tromelin, Cargados Carajos (28.7 km²) and the Chagos Archipelago, including Diego Garcia and any other island comprised in the State of Mauritius. The Republic of Mauritius has an Exclusive Economic Zone (EEZ) of approximately 2.3 million km², as illustrated in *Figure 18*. It also shares a joint jurisdiction with the Republic of Seychelles over an extended continental shelf area of about 400, 000 km² in the Mascarene Plateau region.

Figure 18: Maritime Zones Map of the Republic of Mauritius²²



Climate Profile

The island of Mauritius enjoys a mild tropical maritime climate throughout the year. The country has two seasons: a warm humid summer extending from November to April and a relatively cool dry winter from June to September. The month of October and May are commonly known as the transition months. Mean summer temperature is 24.7°C while mean winter temperature is 20.4°C, resulting in a seasonal temperature difference of only 4.3°C. The warmest months are January and February with average day maximum temperature reaching 29.2°C and the coolest months are July and August when average night minimum temperatures drop down to 16.4°C. Long term mean annual rainfall (1971-2000) over the Island is 2010 mm. The wettest months are February and March. The driest month is October. Mean summer rainfall (1971-2000) is 1344 mm, which is 67% of the annual amount over the Island. Mean winter rainfall (1971-2000) is 666 mm. Although there is no marked rainy season, most of the rainfall occurs in summer months. Mauritius receives 6.5 to above 8 hours of bright sunshine daily. In summer months around 6.0 hours of bright sunshine are received over the high grounds, whereas the coastal regions are exposed to 7.5 to over 8.0 hours of bright sunshine. In winter months, the Central Plateau receives around 5.0 hours of bright sunshine whereas the coast receives above 7.5 hours of bright sunshine.

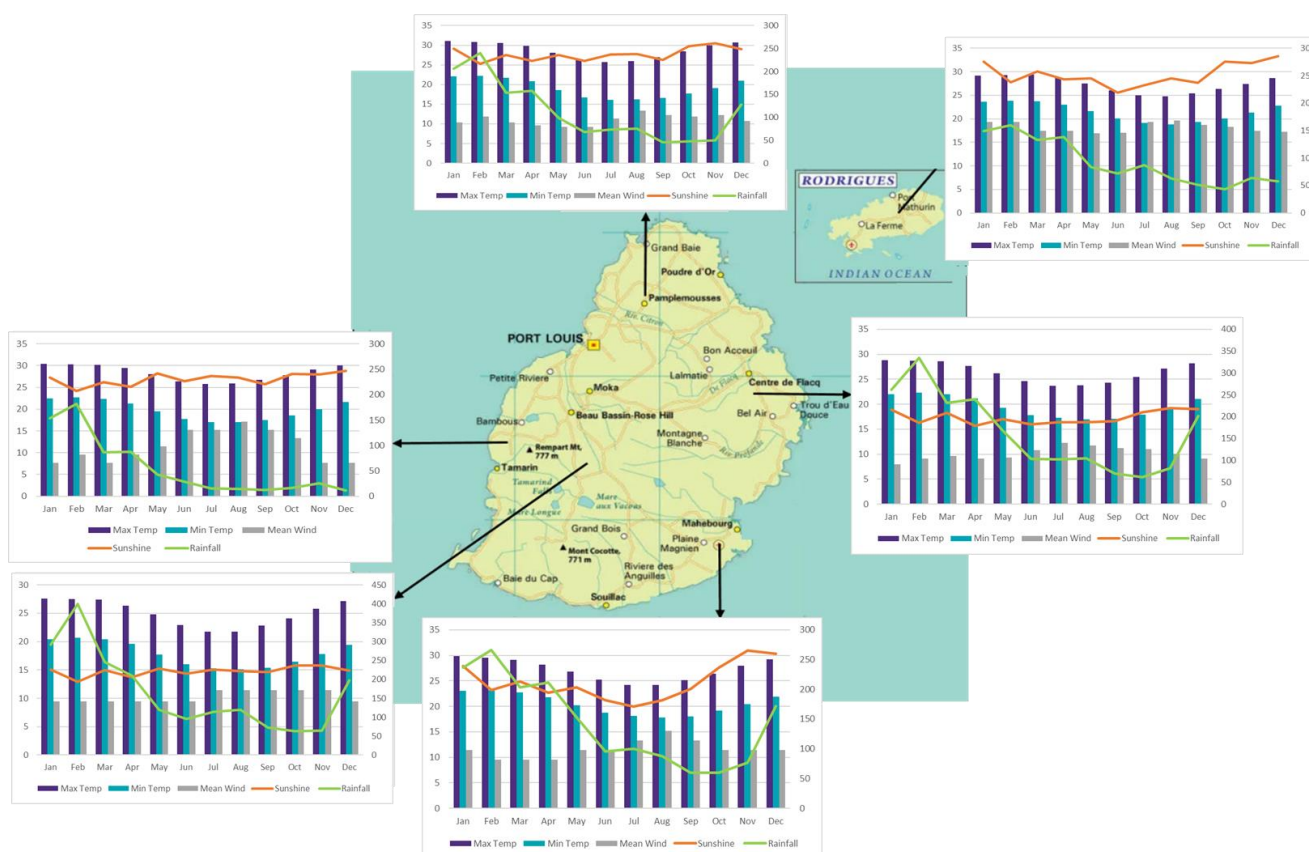
Rodrigues also features a mild tropical maritime climate with persistent trade winds blowing throughout the year. Mean summer temperature is 25.9°C and mean winter temperature is around 22.3°C so that the seasonal temperature difference is about 3.6°C. January to March are the hottest months and August is the coolest month. Long term annual mean rainfall (1961-2007) over the island is 1116 mm. Mean summer rainfall is 729 mm which represents 65% of the annual total. The wettest month is February whereas September and October

²² Source: Prime Minister's Office, Department for Continental Shelf, Maritime Zones Administration & Exploration website, https://csmzae.govmu.org/Documents/CSMZAE/Maps/A3_indianOceanJMAEEZ_20240129_300dpi.jpg

are the driest months. The island receives on average, about 8.9 hours of bright sunshine daily and the average wind speed on any day is 18.1 km/h at Pointe Canon.

The islands of the Republic of Mauritius are exposed to cyclones during the summer months of November to March, sometimes bringing heavy rains and strong wind gusts that significantly impact the island's infrastructure and agriculture. *Figure 19* shows the monthly variation of various climate parameters (maximum and minimum mean temperatures, mean wind speed, sunshine hours and rainfall) for the northern, southern, eastern, western and central regions of the island of Mauritius as well as for Rodrigues, based on long term recorded data.

Figure 19: Monthly variation of climate parameters at various locations in Mauritius and Rodrigues



Economy

(1) Gross Domestic Product

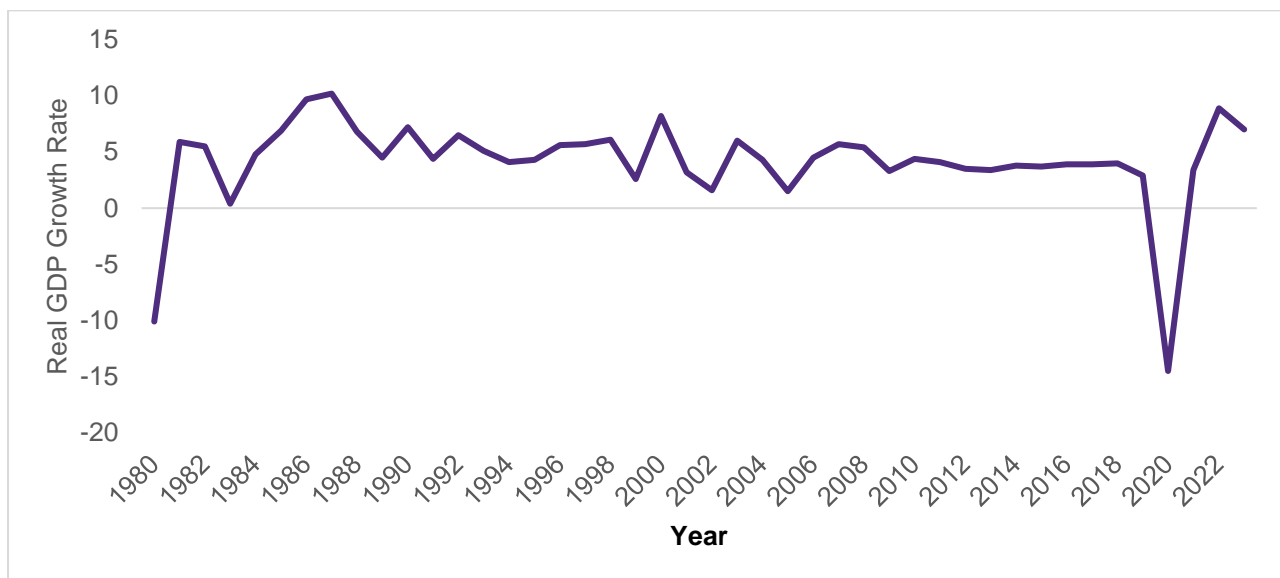
Mauritius has experienced remarkable economic growth since gaining independence in 1968 and now stands as one of the highest per capita incomes in Africa²³. In the decade following independence, Mauritius was largely dependent on agriculture and, in particular, on the sugar industry. In the 1980s, the country began a shift toward a more varied economic structure, making significant strides in sectors such as textile, tourism, fisheries and manufacturing. Since the turn of this century, it has successfully expanded into financial services as well as information and communication technology. In 2020, the country briefly attained high-income status by World Bank after the Gross National Income per capita reached USD 12,740, but the global COVID-19 pandemic severely impacted the economy. Although the public health crisis was effectively managed, the economic repercussions were profound, leading to a contraction of 14.6% in real Gross Domestic Product (GDP) that year, from USD 14.44 billion in 2019 to USD 11.41 billion in 2024, causing Mauritius to drop to upper-middle-income status again²⁴. Real GDP growth saw a modest rebound of 3.5% in 2021, accelerating to 8.9% in 2022¹⁹,

²³ Mauritius - 2022 World Factbook Archive: <https://www.cia.gov/the-world-factbook/about/archives/2022/countries/mauritius/>

²⁴ World Bank Country Overview: <https://www.worldbank.org/en/country/mauritius/overview>

fueled by a progression of 230% of tourist arrivals compared with 2021, and a contribution to real GDP growth of 5.1%²⁵. Other key sectors contributing to growth in 2022 were manufacturing (+1,2% of which 0.6% accrued from non-sugar food processing), financial services and insurance activities (+0.6%) and agriculture (+0.2%)²⁰. In 2023, real GDP grew by 7%¹⁹. The strong GDP growth over the last two years has bolstered tax revenues, leading to a reduced public debt-to-GDP ratio of around 78%¹⁹. *Figure 20* presents the yearly real GDP growth rate for the period 1980 to 2023.

Figure 20: Trend in yearly real GDP growth rate for the period 1980 to 2023



As of 2023, the Gross Domestic Product (GDP) of Mauritius demonstrates resilience despite global economic challenges such as the COVID-19 pandemic and its subsequent economic recovery phase as well as those stemming from the war in Ukraine. The country's GDP was estimated to be around USD 14.7 billion and has shown consistent growth over the years, supported by sound macroeconomic policies and a stable political environment.

(2) Trade Balance

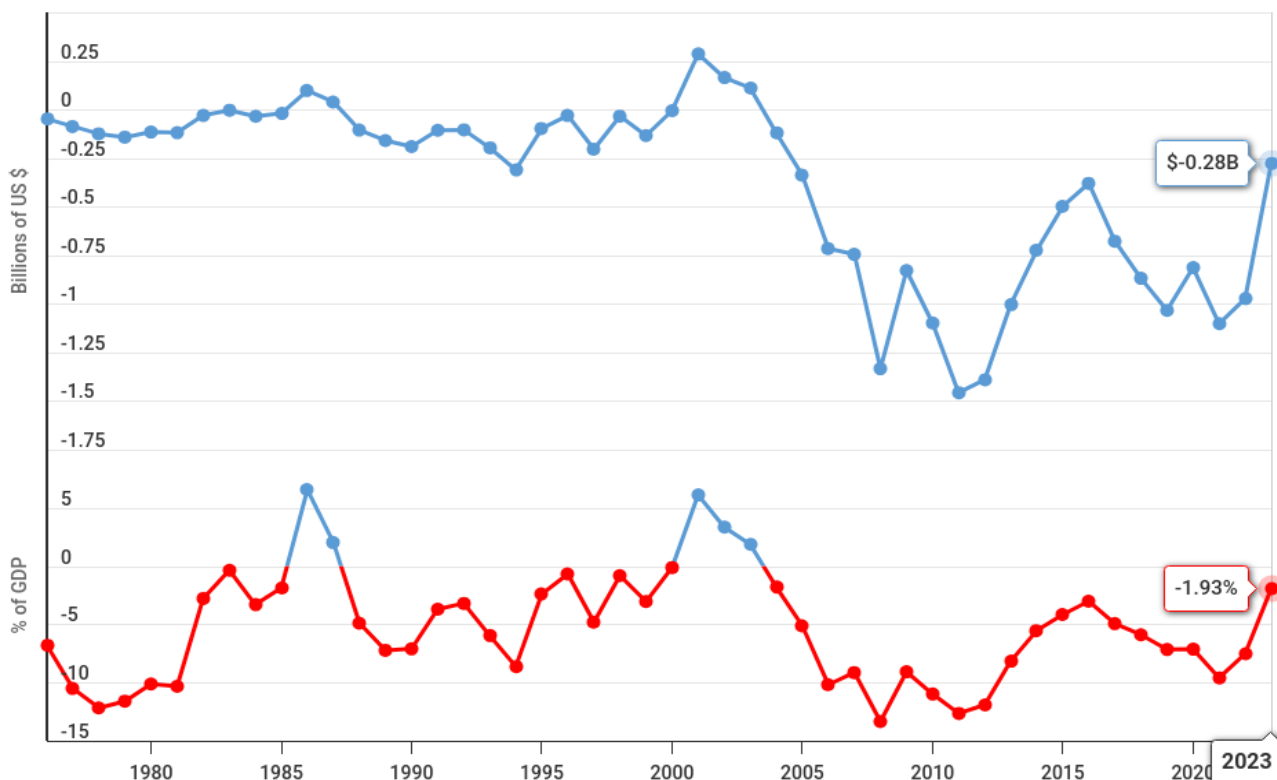
The balance of trade of the Republic of Mauritius has experienced significant fluctuations since it achieved independence, reflecting the nation's evolving economic landscape and trade relationships. Due to its limited natural resources, Mauritius has relied heavily on its agriculture, textile, and tourism sectors, which have shaped its trade patterns over the decades. In the late 1960s, Mauritius primarily focused on agriculture, particularly sugar production, which constituted a significant portion of its exports and benefitting from preferential trade agreements with former colonial powers such as the European Union²⁶. The economic landscape worsened in the late 1970s, marked by rising petroleum prices and the decline of the sugar boom. As imports continued to exceed exports, the balance of payments deficit increased consistently²². In 1986, Mauritius had its first trade surplus in twelve years²². The sustained industrialization on the country in the late 1980s and 1990s resulted in a growing trade deficit, driven by the need for capital goods, machinery, and raw materials for its emerging manufacturing sector. Despite the deficit, the government implemented policies aimed at boosting exports, particularly in textiles and garments, which became significant contributors to the economy due to the Multi-Fibre Agreement. During the first decade of this century, Mauritius continued to face challenges regarding its trade balance. The global economic environment, along with changes in trade policies and the elimination of the Multi-Fibre Agreement in 2005, led to increased competition from other countries, negatively impacting export performance. As a result, the trade deficit widened significantly, more so as imports of consumer goods,

²⁵ Country Focus Report 2023 – Mauritius – African Development Bank Group

²⁶ Toth, A. (1995). "Mauritius: Economy". In Metz, Helen Chapin (ed.). Indian Ocean: five island countries (3rd ed.). Washington, D.C

fuel, and machinery surged to meet domestic demand. From 2010 onward, the Mauritian government has pursued diversification and innovation strategies to enhance its export capabilities, focusing on sectors such as information and communication technology, financial services, and sustainable tourism. Despite these efforts, the overall trade balance remained negative due to rising import costs, particularly for energy and manufactured goods¹⁹. The COVID-19 pandemic in 2020 led to further disruptions, severely impacting tourism and trade. However, as global economies recovered, the balance of trade in Mauritius showed signs of improvement by 2022, although the trade deficit persisted. As of 2023, Mauritius continues to work towards achieving a more balanced trade position. The trade balance for Mauritius during the period 1976 to 2023 is displayed in *Figure 21*, both in monetary terms and as a percentage of the GDP.

Figure 21: Trade balance for the period 1976 to 2023



Energy

(1) Primary Energy Supply

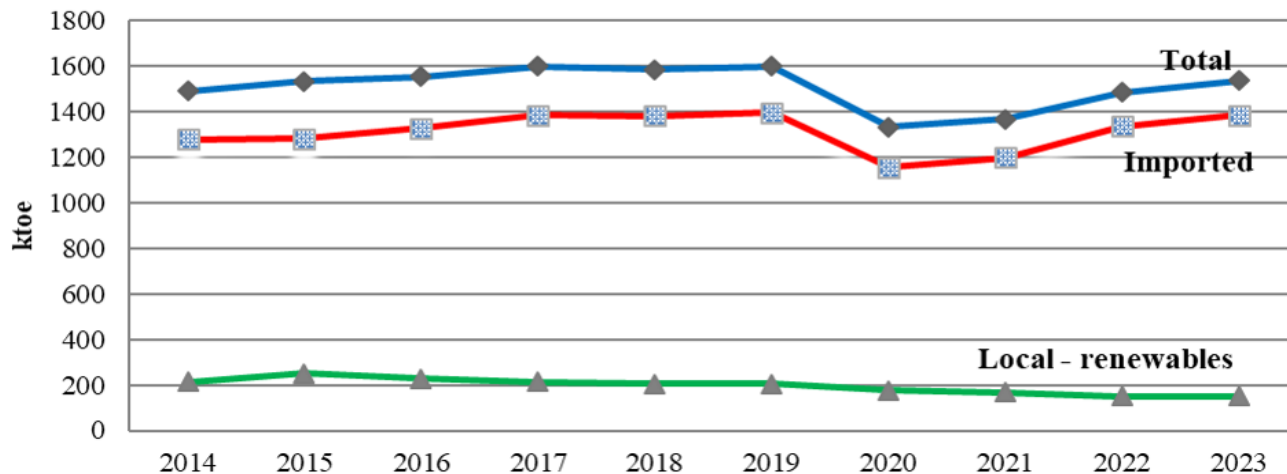
Mauritius has traditionally relied heavily on imported fossil fuels, which constitute a significant proportion of its energy mix. Energy production is complemented by renewable energy sources, predominantly derived from sugarcane biomass, hydroelectric, wind, and solar power. Biomass energy, sourced from the local sugar industry, has played a pivotal role, with several sugar mills generating electricity. Hydroelectric power, while limited by topography, has contributed to the energy supply, particularly during periods of high rainfall. The energy supply of the Republic of Mauritius is therefore divided into²⁷:

- Imports of primary energy (Fossil fuels: Fuel Oil, Liquefied Petroleum Gas, Gasolene, Diesel, Kerosene, Aviation fuel and Coal),
- Production of primary energy (Local resources: Bagasse, hydro, wind, landfill gas, fuelwood, charcoal and photovoltaic),
- Primary energy re-exports and bunkering, and
- Variation of stocks

²⁷ Energy Efficiency Management Office – Energy Observatory Report 2019

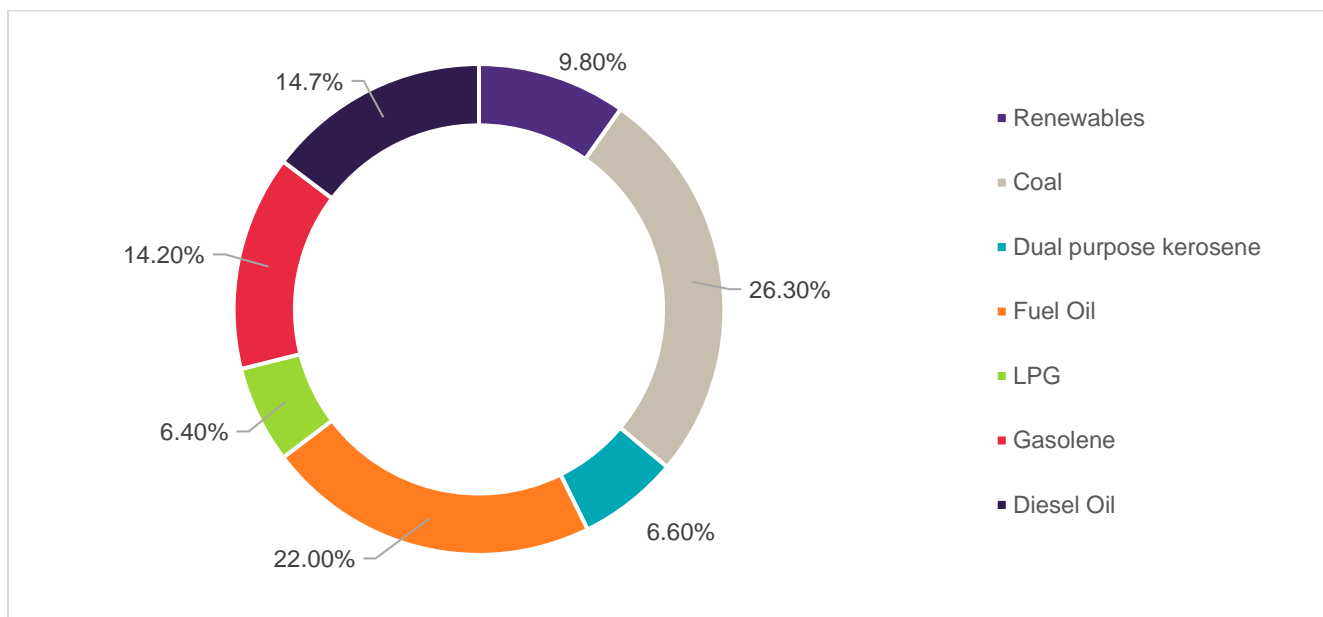
Hence, the total primary energy requirement is obtained as the sum of imported fossil fuels and locally available fuels less re-exports and bunkering, after adjusting for stock changes. The primary energy requirement for the period 2014 to 2023 in thousand tonnes of oil equivalent (ktoe) is shown in *Figure 22*.

Figure 22: Primary energy requirement for the period 2014 to 2023



In 2023, out of 1,537,622 tonnes of oil equivalent (toe) of the total primary energy requirement, 90.2% was met from imported fuels (mainly, fossil fuels) and 9.8% from local sources²⁵. The breakdown of the energy mix is shown in *Figure 23*²⁸.

Figure 23: Breakdown of total energy requirements in 2023 into various energy sources



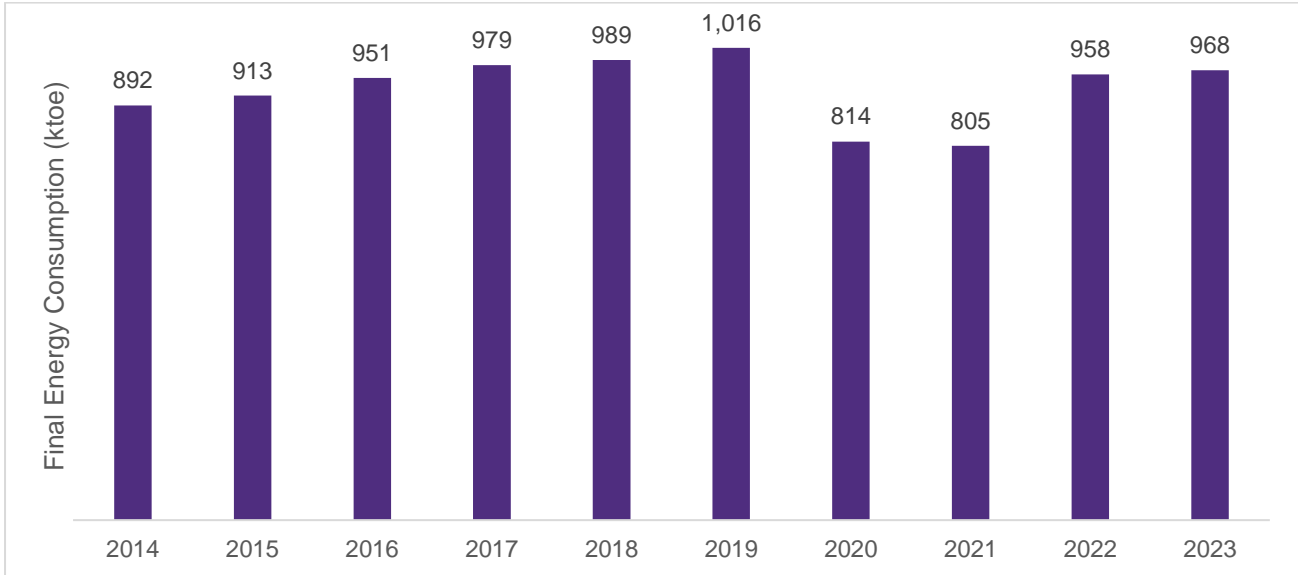
(2) Energy Consumption

Final energy consumption refers to the energy consumed by end users, excluding the energy expended in electricity generation and losses in the energy transfer matrix. In 2023, final energy consumption was estimated at 967,708 toe, an increase of about 1.0% from 958,285 toe in 2022²⁵. The trend of the final energy consumption of Mauritius during the period 2014 to 2023 is presented in *Figure 24*. A generally upward trend can be observed

²⁸ Statistics Mauritius – Energy and Water Statistics 2023

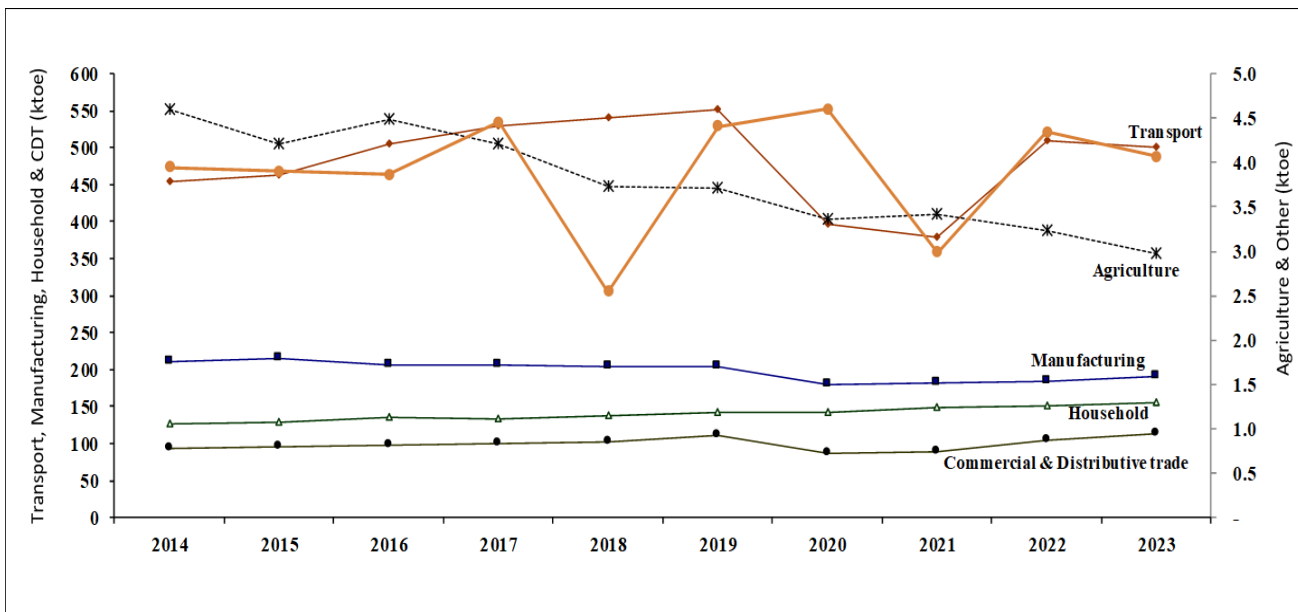
from 2014 to 2019, peaking at 1,016 ktoe. A substantial drop in the consumption occurred in 2020 and 2021 due to the COVID-19 pandemic's impact but the figures were back closer to pre-pandemic levels in 2022 and 2023 as the key industries resumed normal operation.

Figure 24: Trend of final energy consumption during period 2014 to 2023



For Mauritius, end users are primarily classified into five sectors: manufacturing, transportation, commercial and distributive trade (CDT), households, and agriculture. Any end user not fitting within these 5 categories is classified under “Other”. Figure 25 illustrates the trend in energy consumption across various end-user categories in Mauritius from 2014 to 2023. Transport is by far, the major energy consuming sector representing 51.7% of the total final energy consumption in 2023, followed by manufacturing, household, CDT, other and agriculture, with shares of 19.7%, 16.1%, 11.8%, 0.4% and 0.3% respectively in 2023.

Figure 25: Energy consumption by various end-user categories in Mauritius from 2014 to 2023



(3) Price of imported fossil fuels

The high dependency of Mauritius on imported fossil fuels for its energy requirements can potentially create economic vulnerabilities related to energy security and price volatility. Fossil fuels constitute a significant share of the total import bill of the country. As such, the impact of the price of imported fossil fuels on the economy can be important. There is a strong correlation between the price of imported fossil fuels and the overall import bill as illustrated by *Figure 26* & *Figure 27*. These figures represent the average import price of energy sources and the contribution of latter in the total imports bill of Mauritius during the period 2014 to 2023 respectively. For example, as the average prices of petroleum products and coal escalated globally from 2016 to 2018, their share in the total import bill soared by 6.4% during this interval, from 13.1% in 2016 to 19.5% in 2018.

Figure 26: Average import prices of petroleum products and coal from 2014 to 2023

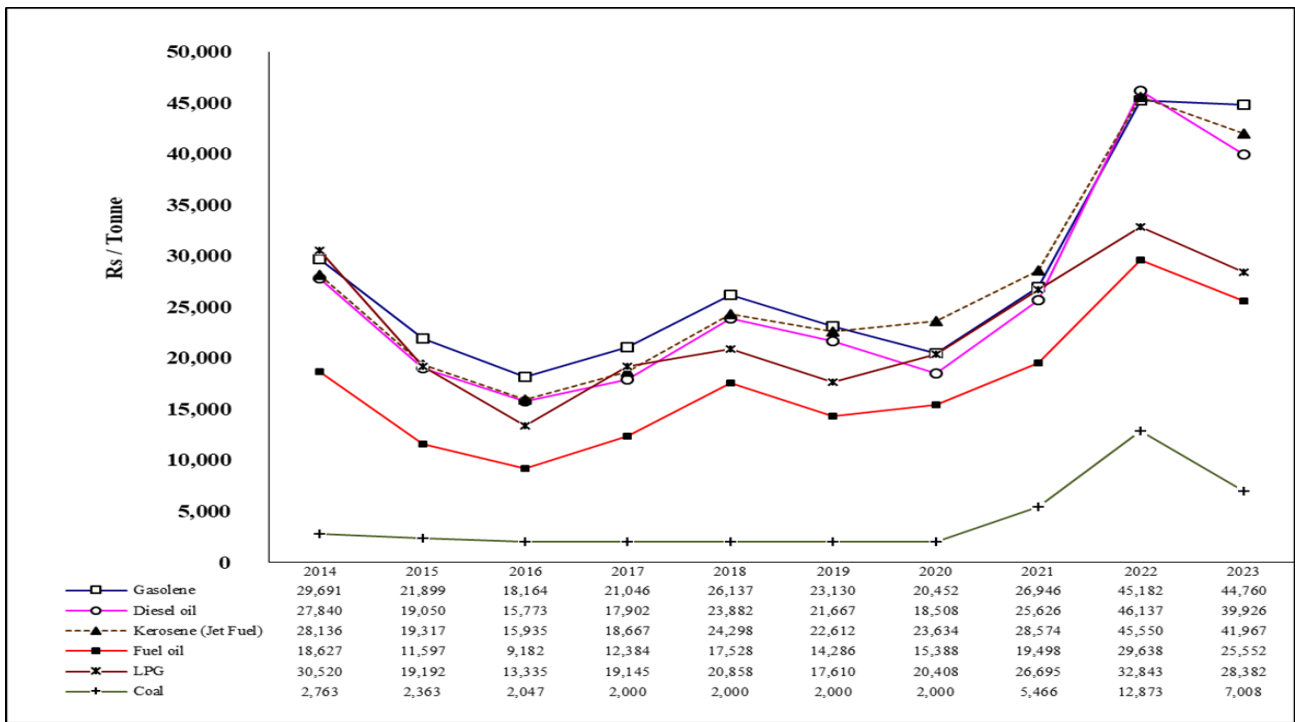
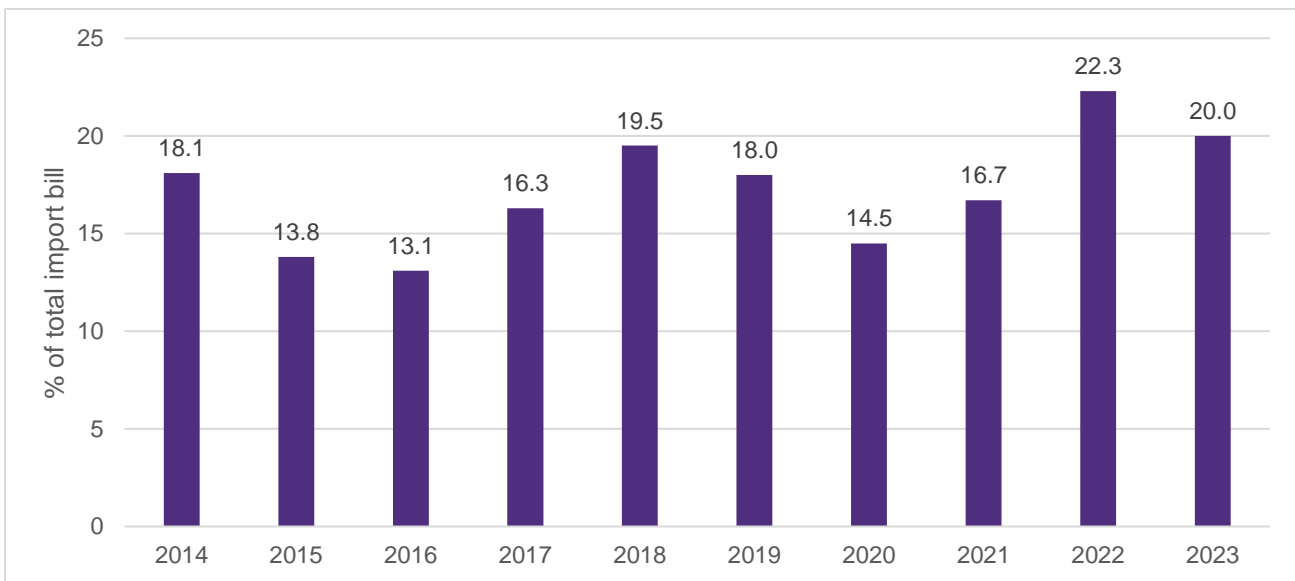


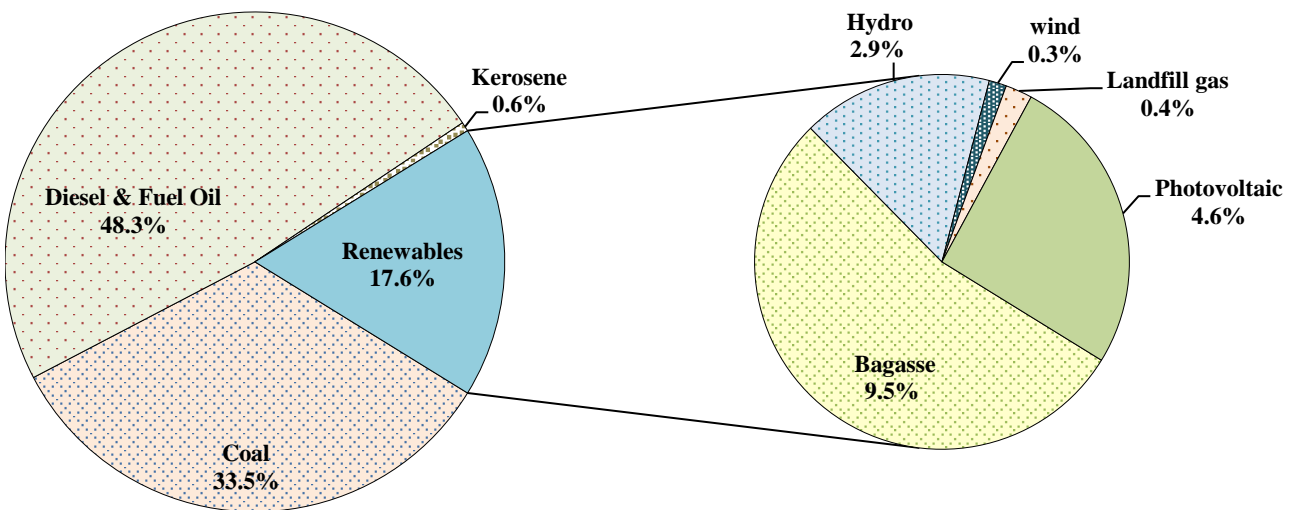
Figure 27: Share of imported energy sources in total imports bill from 2014 to 2023



(4) Electricity Generation

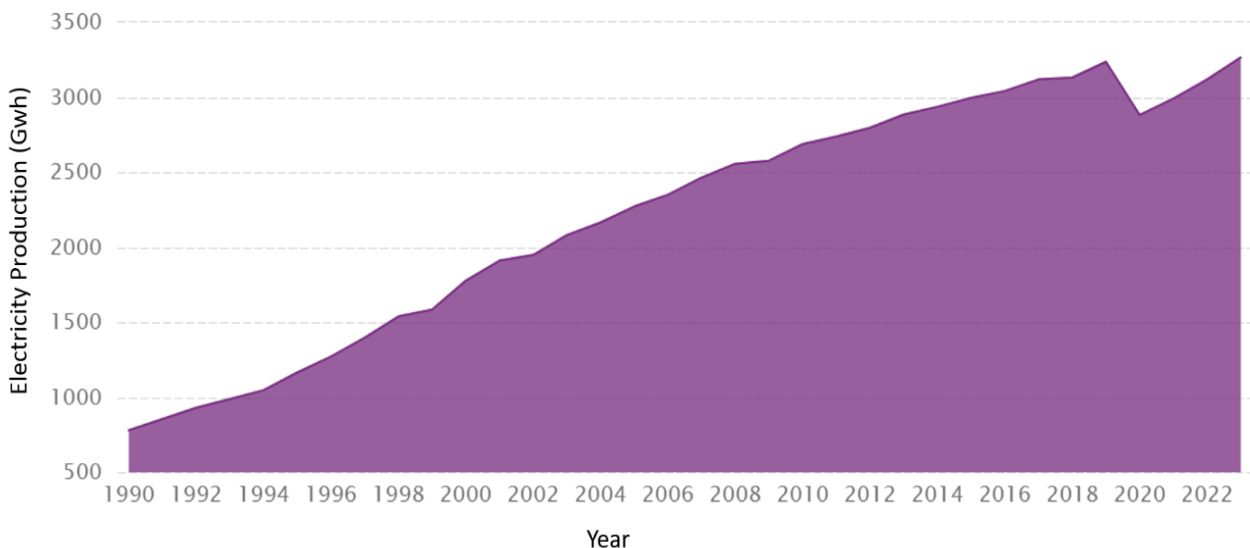
In 2023, the total electricity generated for the Republic of Mauritius was 3,265.5 GWh, of which about 574.4 GWh came from renewable energy sources representing 17.6 percent of the electricity mix. In comparison to 2022, this indicates a 4.7% rise from the total electricity generation of 3,119.2 GWh, with renewable energy sources contributing 598.4 GWh (19.2% of the overall electricity mix)²⁵. The share of electricity generated by energy sources in 2023 is depicted in *Figure 28*.

Figure 28: Percentage share of energy sources in electricity generation in 2023



The trend of electricity generation from 1990 to 2023 is shown in *Figure 29*. Throughout the entire period, a steady increasing trend is observed, with the exception of 2020, when the effects of the COVID-19 pandemic caused a decline.

Figure 29: Electricity generation from 1990 to 2023²⁹



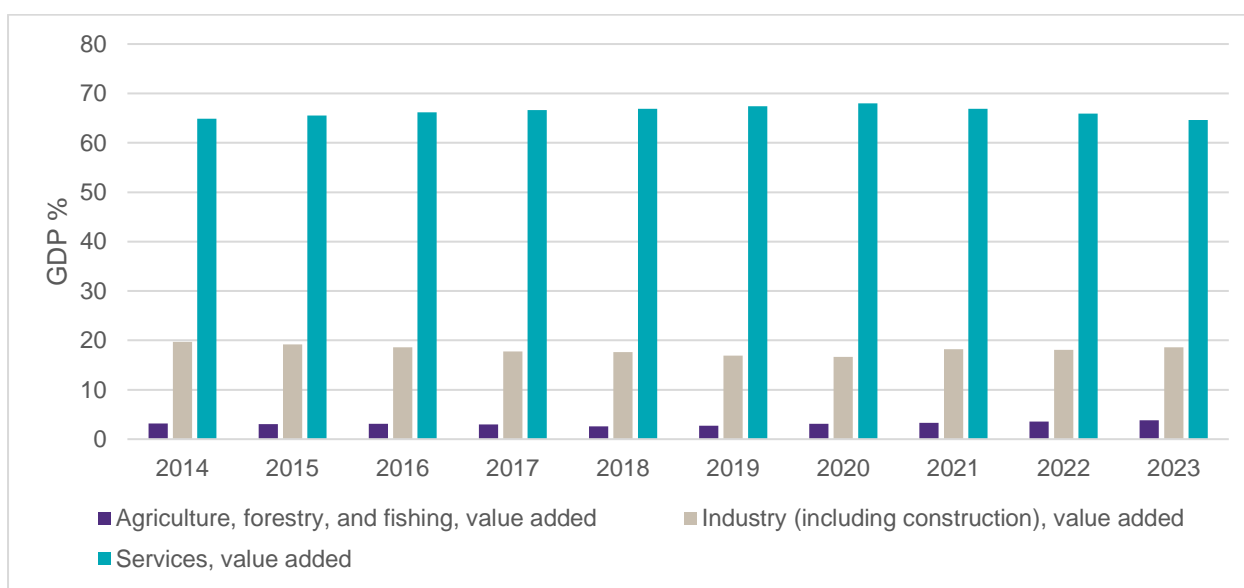
²⁹ Mauritius Electricity Production: <https://www.ceicdata.com/en/indicator/mauritius/electricity-production> - Data Source: Statistics Mauritius.

In 2023, total electricity sold was at 2,813.7 GWh, out of which the commercial sector accounted for the largest share (37.5%), followed by the domestic (36.5%), industrial (24.5%) and “other” (1.5%) sectors²⁵.

Industry

The primary sector is relatively small, accounting for 3.8% of GDP and around 5% of total employment in 2023³⁰. About 44% of the nation's arable land area is dedicated to agriculture, with sugarcane dominating nearly 90% of cultivated land, serving as a primary source of export revenue³¹. The remaining portion is allocated to tea, tobacco, and a limited variety of food crops, predominantly vegetables and fruits. The secondary sector has been growing in importance, contributing 18.6% of GDP and 21% of employment in 2023²⁷. The manufacturing sector, which is estimated to account for 12% of GDP, experienced a growth of 2.1% in 2023²⁷. It has greatly diversified since the early 1970s and now encompasses a wide range of activities such as textile, food industry, high-end jewellery and medical devices. The tertiary sector dominates the country's economy, with services employing about 73% of the workforce, and the largest contributor to GDP with a share of 64.6% in 2023²⁷. The global business sector in Mauritius has developed significantly since it was first conceived in 1992 and has now become one of the main pillars of the economy, offering a range of sophisticated financial products, such as global collective investment schemes, specialized collective investment schemes, closed-end funds, expert funds, CIS management, and investment dealers, amongst others²⁸. The tourism sector is also pivotal: before the Covid-19 pandemic, Mauritius attracted 1.4 million tourists, but the numbers dropped drastically following the border closure in 2020 and 2021. In 2023, the country welcomed 1,295,410, tourists returning close to the pre-pandemic level³². *Figure 30* provides the trend of the contribution to GDP, in terms of value added, by three main sectors of the industry during the period 2014 to 2023.

Figure 30: Contribution to GDP by three main industrial sectors from 2014 to 2023



Transport

(1) Road Transport

The road transport sector in Mauritius plays a crucial role in the country's economy and social development, serving as a backbone for both the movement of goods and people. The number of vehicles on the roads has been growing at a relatively steady rate over the past years. As of the end of 2023, a total of 676,441 vehicles

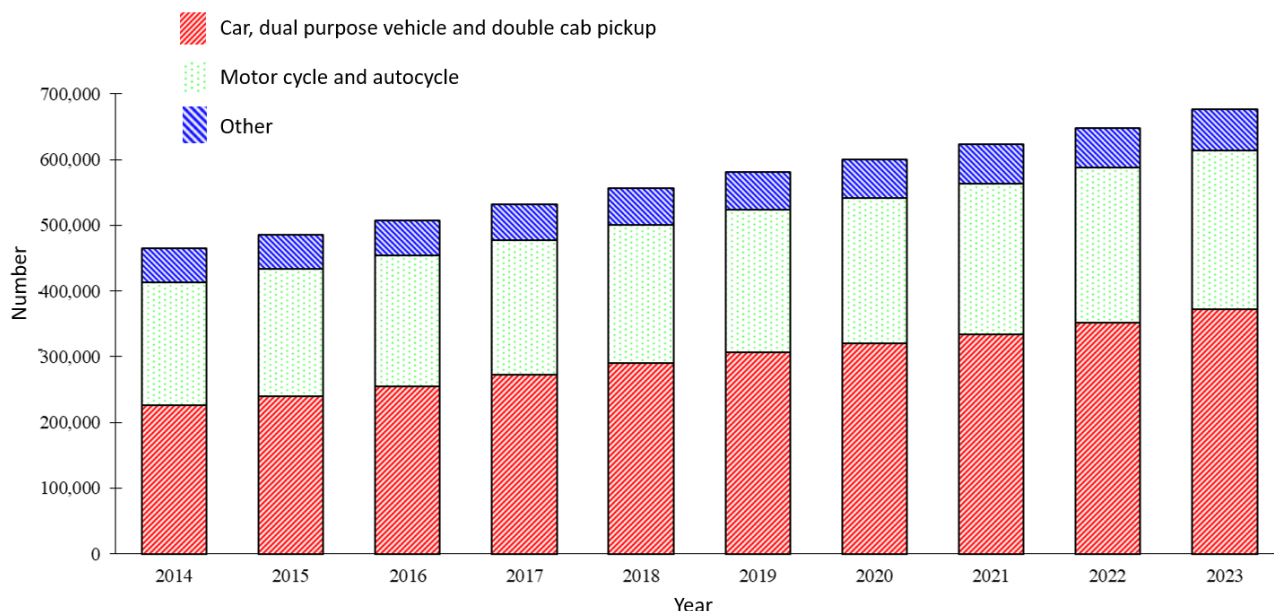
³⁰ World Bank Group Data Bank for Mauritius: <https://databank.worldbank.org/reports.aspx?source=2&country=MUS#>

³¹ Government of Mauritius Website – Economy: <https://govmu.org/EN/infoservices/finance/Pages/economy.aspx>

³² Mauritius: Economic and Political Overview: <https://www.mauritiustrade.mu/en/market-intelligence/explore-markets/mauritius/economic-and-political-outline>

were reported as duly registered, marking a growth of 4.4% compared to the end of 2022, when the total stood at 648,176. In 2003, the fleet consisted of 55.0% (371,866) cars, double cab pickups and dual-purpose vehicles and 35.9% (242,608) auto/motorcycles. The remaining 9.1% comprised vans (31,079), lorries and trucks (18,618), buses (3,225) and other vehicles (9,045)³³. *Figure 31* presents the trend in the number and types of registered vehicles from 2014 to 2023.

Figure 31: Number of registered vehicles and their types from 2014 to 2023

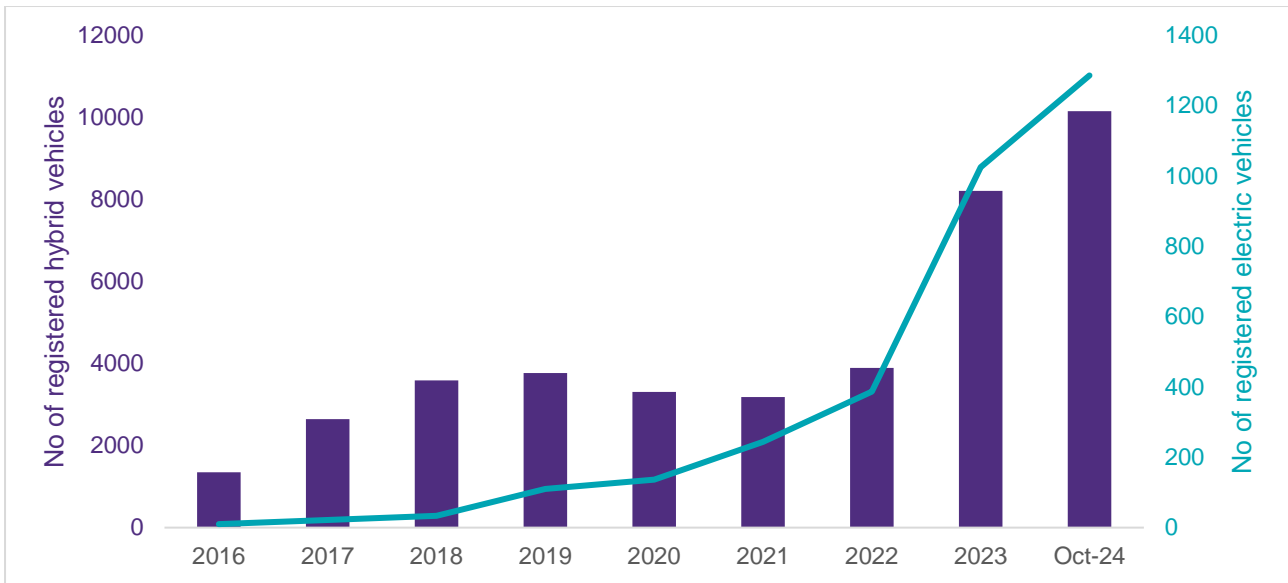


While most of the vehicles are powered by fossil fuels, namely diesel and gasoline, there is a gradual shift towards the adoption of hybrid and electric vehicles in Mauritius. Several measures have boosted this market, in particular, the exemption of duty on the purchase of hybrid and electric cars in 2022. In 2016, only 1,352 hybrid cars and 10 electric cars were newly registered; by 2023, those numbers increased significantly to 8,208 and 1,025, respectively. During the first 10 months of 2024, 10,152 hybrid vehicles and 1286 electric vehicles were registered³⁴. *Figure 32* shows the gradual increase in the number of registered hybrid and electric vehicles from 2016 to October 2024.

³³ Statistics Mauritius – Road Transport and Road Traffic Accident Statistics 2023

³⁴ National Land Transport Authority (NLTA) - Road Transport Division – Latest Statistics: <https://nlta.govmu.org/Pages/Statistics/Statistics.aspx>

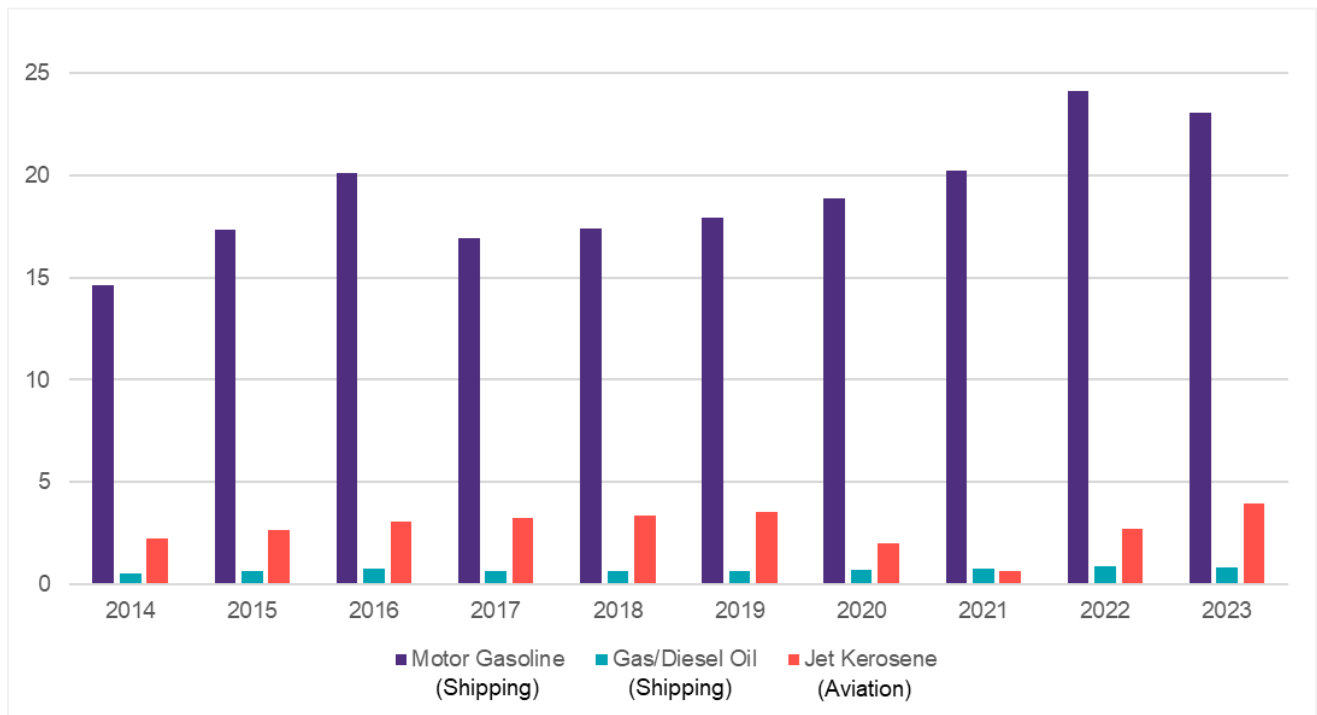
Figure 32: Trend of registered hybrid and electric vehicles from 2016 to October 2024



(2) Domestic aviation and shipping

Domestic aviation and shipping play a crucial role in connecting the islands of the Republic of Mauritius, enhancing economic integration, tourism, and cultural exchange. Moreover, the other islands rely heavily on-air transport and shipping for access to essential services and goods from Mauritius. Domestic aviation provides quick and convenient connectivity between these islands, and regular scheduled flights are available between Mauritius and Rodrigues. The maritime link is particularly important for Rodrigues, which depends on shipping for its imports and exports. Fuel consumption for domestic aviation and shipping for the period 2014 to 2023 is shown in *Figure 33*.

Figure 33: Fuel Consumption by domestic aviation and shipping sectors from 2014 to 2023



Buildings

In 2022, there were 329,000 buildings in Mauritius, out of which 85.5% were categorized as wholly residential buildings. Another 16,306 buildings were reported as being partly residential. These wholly/partly residential buildings accommodated a total of 411,700 housing units and 369,000 households. 36.5% of the residential buildings were located in urban areas. An overwhelming majority of total residential buildings are made of concrete materials³⁵. Number of other categories of buildings recorded in 2022 is depicted in *Figure 34*.

The additional floor area in residential and non-residential building categories on a yearly basis, based on building permit applications received, for the period 1979 to 2023 is shown in *Figure 35*. The newly added floor area in both categories increased significantly during the 1980s as the GDP started to improve notably. During the subsequent three decades, the additional floor area in the residential area has been relatively constant³⁶. The last two years, 2022 and 2023, saw substantial increases in new floor area in this category as the economy picked up again after the pandemic.

Figure 34: Number of different types of buildings in 2022

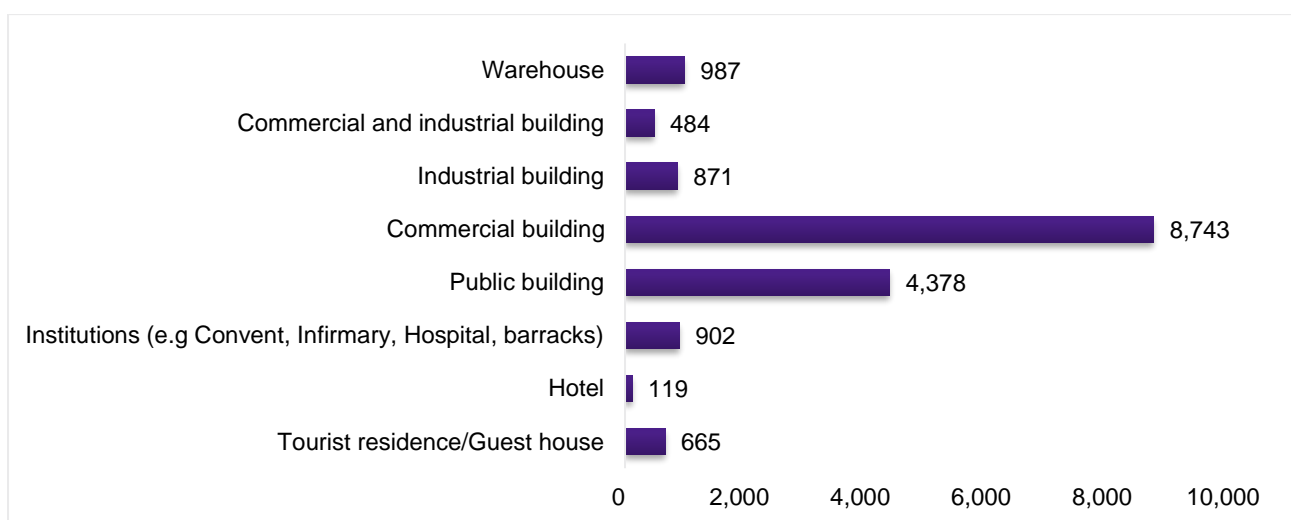
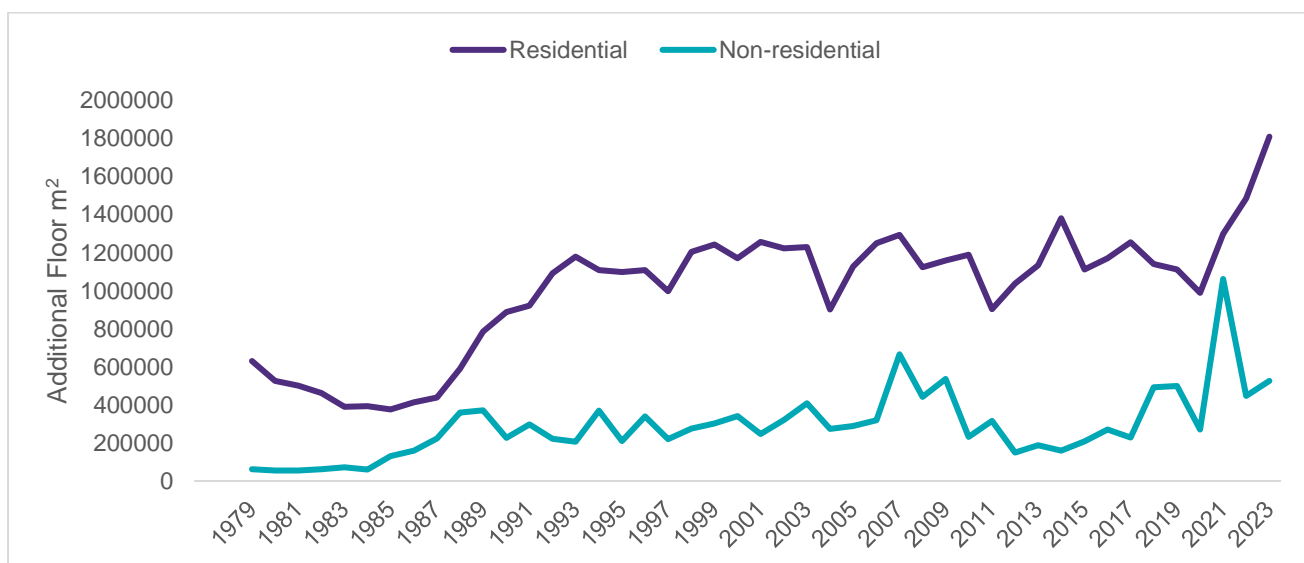


Figure 35: Additional floor area for the period 1979 to 2023



³⁵ Statistics Mauritius – 2022 Housing and Population Census – Vol 1: Housing and Living Conditions

³⁶ Statistics Mauritius - Main Indicators on Buildings and Construction 2024

Waste

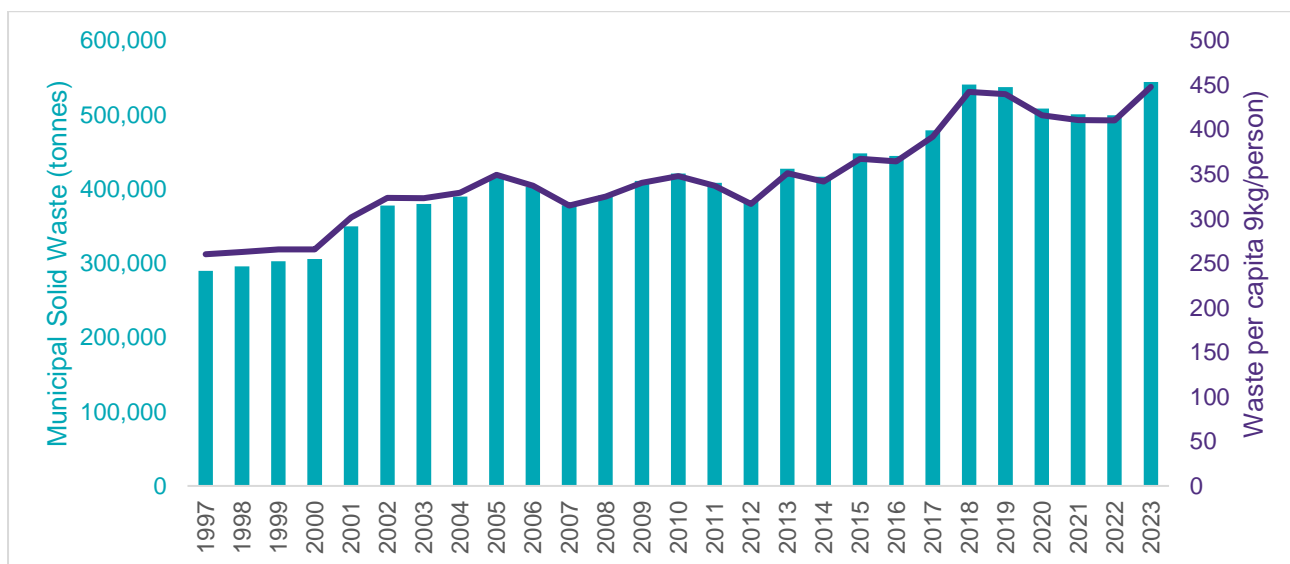
(1) Solid Waste

The collection of solid waste in the island of Mauritius is a comprehensive door-to-door service provided by local authorities³⁷. Before 1997, solid waste disposal practices in Mauritius were largely unregulated. Dumpsites were located in about 24 natural depressions, where waste was deposited and compacted to maximize space. There was also no systematic record-keeping for incoming waste as well as information about their composition³⁸. Existing records relied on rough estimates. Due to the lack of effective waste management strategies and considering the associated health hazards and risks of fire, the government commissioned several studies (including Binnie and Partners in 1992, Scott Wilson Kirkpatrick in 1994, and Brown and Root in 1998) to address these issues. Their findings and recommendations led to the creation of a sanitary landfill in 1997 at Mare Chicose, a village located in the south-eastern part of the island. This paved the way to the systematic closure of the dumpsites and five of them were transformed into transfer stations, where waste from surrounding areas is received, temporarily stored, and compacted before being transported to the landfill³⁹. Initially, the landfill was designed on 20 hectares and a capacity of 2 million tonnes of waste, corresponding to 300 tonnes of waste on a daily basis and a lifespan of 19 years. However, within a few years, the landfill started receiving four times the anticipated amount of waste. To accommodate this increased volume, landfill was expanded to 32 hectares³⁹. Some additional engineering enhancements were also made to extend its operational lifespan until mid-2020.

In Rodrigues, an open dump was set up at Roche Bon Dieu and it is currently nearing saturation. The construction of a proper landfill is still under consideration as the site has already been vested thereto. A cell of size 50 m x 50 m has already been constructed to start receiving wastes.

In 2023, 539,810 and 4,472 tonnes of solid waste were generated in the island of Mauritius and Rodrigues respectively. The waste generation per capita for the island of Mauritius and Rodrigues were about 444.3 and 100 kg respectively⁴⁰. The trend of the solid waste generation and the corresponding per capita value for the Republic of Mauritius for the period 1997 to 2023 is illustrated in *Figure 36*.

Figure 36: Solid waste generation and per capita value for Republic of Mauritius for period 1997 to 2023



³⁷ Kowlessar, P. (2020). Solid Waste Management in Small Island Developing States, specifically in Mauritius. In: Ghosh, S. (eds) Solid Waste Policies and Strategies: Issues, Challenges and Case Studies. Springer, Singapore.

³⁸ Beerachee, B. (2012). Overview of Wastes Management in Mauritius: https://uncrd.un.org/sites/uncrd.un.org/files/ipla-gf2012_theme2_04_beerachee-mauritius.pdf

³⁹ Foolmaun, R.K., Chamillal, D.S. and Munhurrin, G., 2011. Overview of non-hazardous solid waste in the small island state of Mauritius. Resources, Conservation and Recycling, 55(11), pp.966-972.

⁴⁰ Statistics Mauritius - Activity data for Solid waste disposal in Mauritius and Rodrigues

Mauritius has also been composting of the generated solid waste since 2011. In 2017, about 14,533 tonnes of waste were composted. Various technical and operational challenges have led to a suspension of this practice³⁷. Recycling is also conducted and involves collection of PET bottles, processed into flakes, and then exported. Similarly, glass is crushed and repurposed into new products, while metals are reprocessed into new metal bars³⁷.

Rodrigues started waste segregation at household levels in 2022 and plastic bottles, cans and glass bottles are temporarily collected at a material recovery center at Grenade which is presently under construction⁴¹. Electronic wastes are collected through regular campaigns and temporarily stored before being exported. Scrap metals are also collected by local exporters for shipment to Mauritius. Green wastes are shredded and made available to planters for agricultural purposes. Single-use plastic bags were banned in 2014.

The Mare Chicose landfill also features advanced leachate and gas collection systems that effectively mitigate the environmental impacts associated with waste disposal³⁷. The collected landfill gas undergoes combustion to generate electricity. In 2023, 13.3 GWh of electricity was generated from landfill gas, which was subsequently exported to the grid²⁵.

(2) Wastewater

Wastewater treatment in Mauritius is managed by the Management Authority (WMA) since 2001 and it operates under the aegis of the Ministry of Energy and Public Utilities. Its core service is the collection and treatment of domestic, commercial and industrial wastewaters for disposal to an environmentally acceptable quality. WMA manages the public wastewater system, which consists of 755 km of sewer network, 70 pumping stations and 10 treatment plants, including 4 main treatment plants which are located at St Martin, Grand Baie, Baie-du-Tombeau, and Montagne Jacquot⁴². Operational details of the treatment plants are provided in *Table 1*.

Table 1: Operational details of the treatment plants⁴³

No.	Wastewater Treatment Plant	Design Flow (m ³ /day)	Average Actual Flow (m ³ /day)	Level of Treatment	Types of effluent received for treatment (Industrial, Domestic, Leachate, etc.)	Use of treated effluent (irrigation, borehole injection/sea outfall, etc.)
1	Montagne Jacquot	48,000	33,000 - 38,000	Advanced Primary	Industrial/Domestic	Sea Outfall
2	St Martin	69,000	55,000 - 59,000	Tertiary	Industrial/Domestic	Irrigation/Sea Outfall
3	Grand Baie	5,500	2,000 - 2,500	Tertiary	Domestic	Irrigation/Borehole Injection
4	Baie Du Tombeau	48,000	33,000 - 38,000	Preliminary Treatment (Wastewater Plant)	Industrial/Domestic	Sea Outfall
5	Pailles		270	Secondary followed by Chlorination	Domestic	Leaching Field
6	Bois Marchand		550	Secondary followed by Chlorination	Domestic	Leaching Field

⁴¹ Proposed Expansion of Rodrigues Airport - Draft Environmental and Social Impact Assessment Report, Prepared by Setec, 2023

⁴² Wastewater Management Authority (WMA) Website: <https://www.wmamauritius.mu/>

⁴³ WMA Website – Treatment Plants: <https://www.wmamauritius.mu/treatment-plants/>

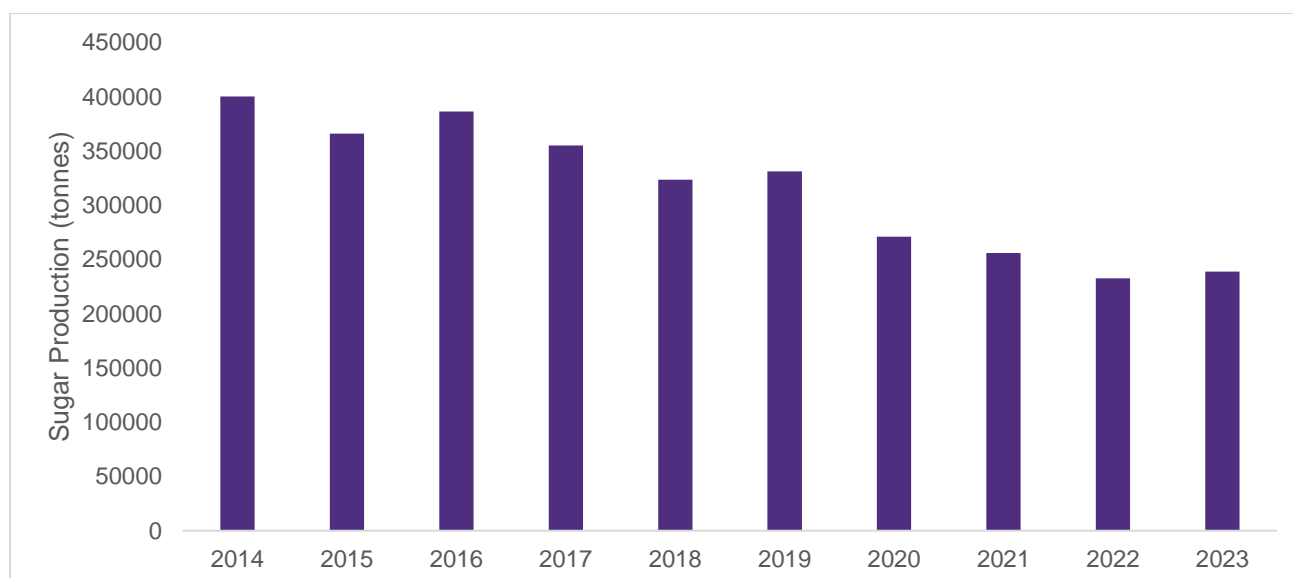
No.	Wastewater Treatment Plant	Design Flow (m ³ /day)	Average Actual Flow (m ³ /day)	Level of Treatment	Types of effluent received for treatment (Industrial, Domestic, Leachate, etc.)	Use of treated effluent (irrigation, borehole injection/sea outfall, etc.)
7	R. Du Rempart		270	Secondary followed by Chlorination	Domestic	Leaching Field
8	Flacq		400	Secondary followed by Chlorination	Domestic	Leaching Field
9	Dubreuil		270	Secondary followed by Chlorination	Domestic	Leaching Field
10	Vuillemin		400	Secondary followed by Chlorination	Domestic	Leaching Field

For Rodrigues, a wastewater treatment plant of capacity 50 m³ was set up in Grenade in 2023. Prior to that, wastewater was being disposed in a leaching field at Grenade itself⁴¹.

Agriculture

In 2023, a total area of 45,085 hectares was harvested for the main crop categories in the Republic of Mauritius. Sugarcane, food crops and tea accounted for 78.1%, 20.5% and 1.4% respectively of the total area⁴⁴. That same year, the total harvested area for sugarcane decreased substantially by 8.5% compared to 2022, from 39,199 hectares to 35,863 hectares. However, sugar production in 2023 increased by 2.6% during that same period, from 232,707 tonnes in 2022 to 238,854 tonnes in 2023. The production growth was attributed to a yield improving from 5.94 tonnes/hectare in 2022 to 6.66 tonnes/hectare in 2023⁴⁴. *Figure 37* illustrates that sugar production has generally been declining over the last decade.

Figure 37: Sugar production for the period 2014 to 2023

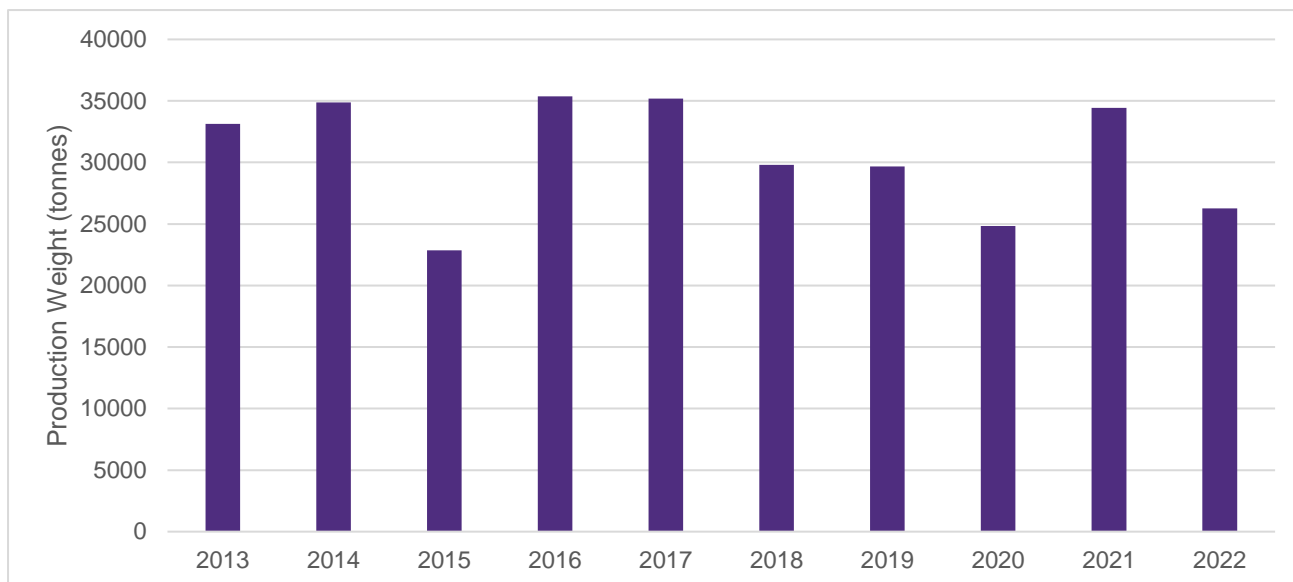


⁴⁴ Statistics - Mauritius - Agricultural and Fish Production Year 2023

In 2022, about 118,541 tonnes of fresh produce were harvested from food crop cultivation. Out of this total, the most prominent productions were 29,212 tonnes of creepers, 16,528 tonnes of potatoes, 16,093 tonnes of mixed vegetables, 14,290 tonnes of tomatoes, 9,829 tonnes of banana and 7,460 tonnes of onions^{45,46}.

Fertilisers are used extensively in Mauritius to enhance soil fertility and improve crop yields. They are mostly nitrogen-based fertilisers that release nitrous oxide during their application. In 2022, 26,266 tonnes of fertilisers were used⁴⁶. *Figure 38* shows the trend of fertiliser use in the Republic of Mauritius for the period 2013 to 2022.

Figure 38: Utilisation of chemical fertilisers during the period 2013 to 2022⁴⁷



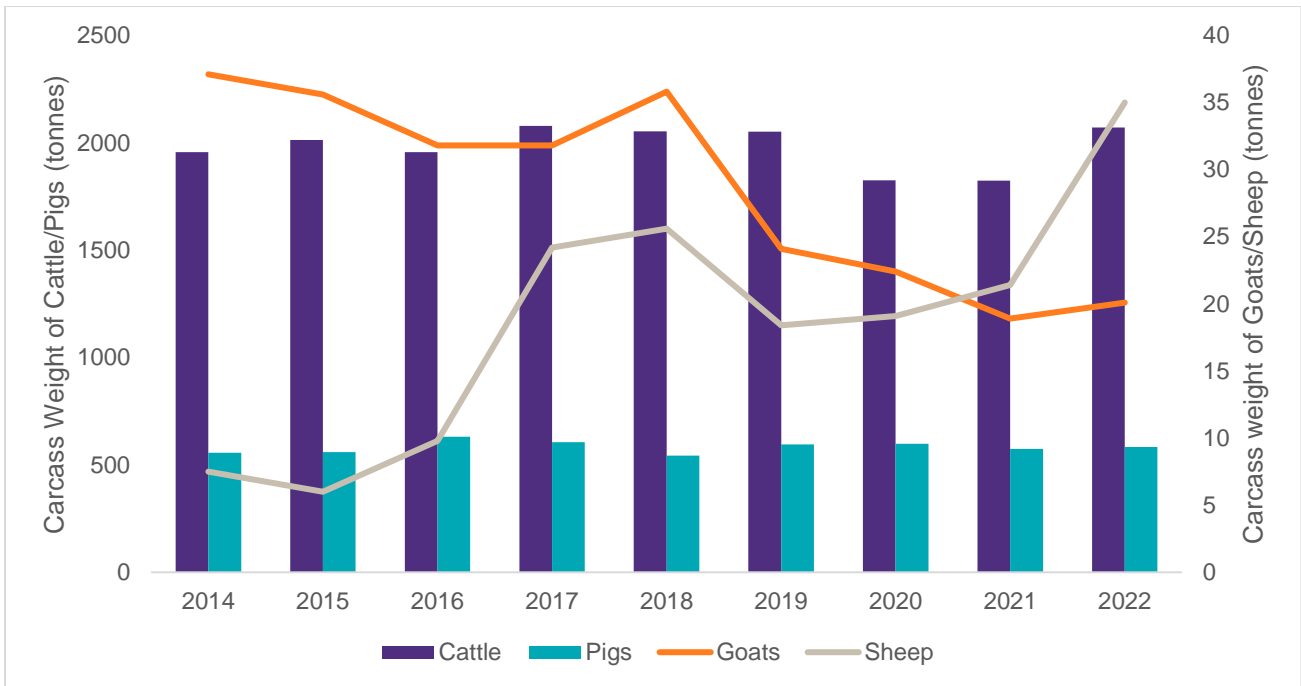
Livestock and fisheries play a crucial role in Mauritius' economy and food security. The production figures of 2022, based of carcass weight, were as follows: beef from live cattle - 2,071 tonnes, pigs – 583 tonnes, sheep – 35 tonnes and goat – 20.1 tonnes^{45,47}. The local production accounted for 5.9% of beef, 100% of pig, 73.4% of sheep and 93.5% of goat total carcass weight in that year, the remaining shares being imported. Yearly production values for the different categories of livestock from 2014 to 2022 are displayed in *Figure 39*.

⁴⁵ Statistics Mauritius – Digest of Agricultural Statistics Year 2022

⁴⁶ Statistics Mauritius – Digest of Rodrigues 2023

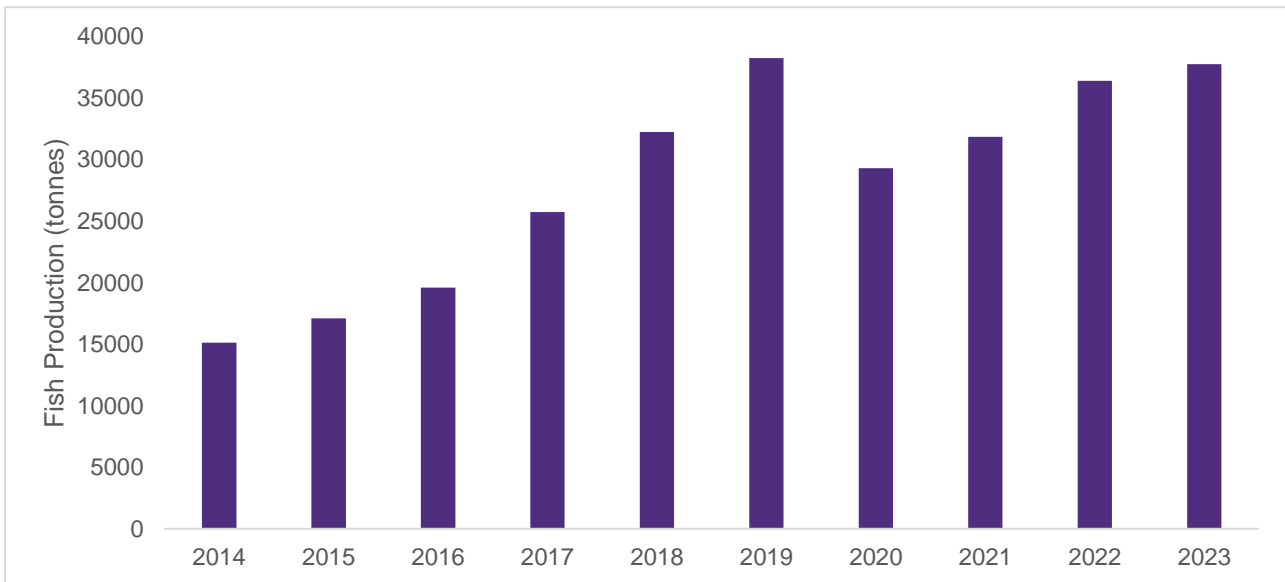
⁴⁷ Statistics Mauritius – Digest of Agricultural Statistics Years 2017 to 2022

Figure 39: Production values of different livestock categories from 2014 to 2022



Total fish production (including high seas, coastal, freshwater, aquaculture and artisanal) increased by 3.7 % from 36,402 tonnes in 2022 to 37,765 tonnes in 2023 ⁴⁵. This increase was linked to a rise in the production of other catch (tuna, bank etc.) as well as an increase in the production of fresh coastal fish catch. The fish production for the period 2014 to 2023 is given in *Figure 40*.

Figure 40: Total fish production from 2014 to 2023



Forestry

Forestry (and Other Land Use) serve as vital carbon sink for Mauritius, estimated at an extent of 360.9 ktCO_{2e} in 2019. This level of carbon sink has been nearly constant in the past decade revealing a state of unchanging stock of primary and secondary forests in Mauritius. In 2022, the privately-owned and state-owned forest covers were estimated at 22,002 and 25000 hectares respectively. Due to the lack of studies assessing the area of privately-owned forests over the past decade, it has been assumed that this segment has remained constant at

25,000 hectares during that time. However, a new survey conducted in 2023 using remote sensing estimated that at least 5000 hectares of privately-owned forest cover has been lost over a period of 10 years⁴⁸. Accordingly, privately-owned forest cover has been revised to 20,000 hectares in 2023 while state-owned forest cover decreased by 5 hectares to reach 21,997 hectares.

Table 2: Forest cover for the period 2014 to 2023⁴⁹

Category	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
State-owned	22,103	22,069	22,066	22,066	22,048	22,031	22,011	22,006	22,002	21,997
Privately-owned lands	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	25,000	20,000
Total	47,103	47,069	47,066	47,066	47,048	47,031	47,011	47,006	47,002	41,997

Protected Areas in 2023 covered a total area of 14,914.5 hectares, consisting of 46 hectares of wetlands, 758.04 hectares of protected offshore islets, 7,570.46 hectares of other mainland state-owned protected areas and 6,540 hectares of privately-owned mountain and river reserves⁵⁰. Moreover, the production of timber, poles and fuelwood from state-owned forests is gradually being reduced, with a greater emphasis on the conservation, protection, and sustainable management of the remaining forests. Consequently, local production of these three items decreased dramatically from 13,952 m³ in 2007 to 8,718 m³ in 2014 and further declined to 3,841 m³ by 2023. In addition, mangroves which are crucial for their role in protecting coastlines and supporting biodiversity, covered an area of 243 hectares in 2023⁵¹.

2. Institutional arrangements in place to track progress made in implementing and achieving the NDC under Article 4

Overall framework of promotion of global warming countermeasures

Article 4 of the Paris Agreement outlines the commitments and processes related to the Nationally Determined Contributions (NDCs) that each party to the agreement must undertake. This article is reflected in Section 14 of the Climate Change Act (CCA) which was enacted in 2020 to provide legal framework towards making Mauritius a climate change resilient and low emission country. The National Climate Change Mitigation Strategy and Action Plan (NCCMSAP) has been developed for the period 2022-2030 to support implementation of the NDCs.

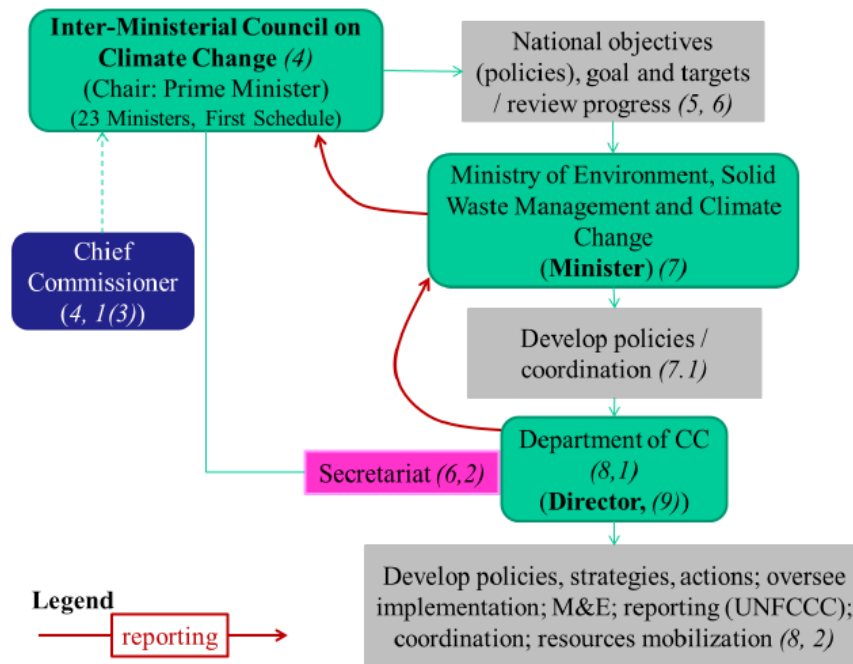
The CCA 2020 sketches the institutional arrangements for climate governance in the Republic of Mauritius. A schematic representation of the institutional mechanism proposed in the CCA 2020 is shown in [Figure 41](#).

⁴⁸ Forestry service – Land Use Change Data

⁴⁹ Forestry service – Land Use Change Data

⁵⁰ Forestry Service – Forest Data 2007-2023

Figure 41: Schematic of institutional arrangements proposed in the Climate Change Act



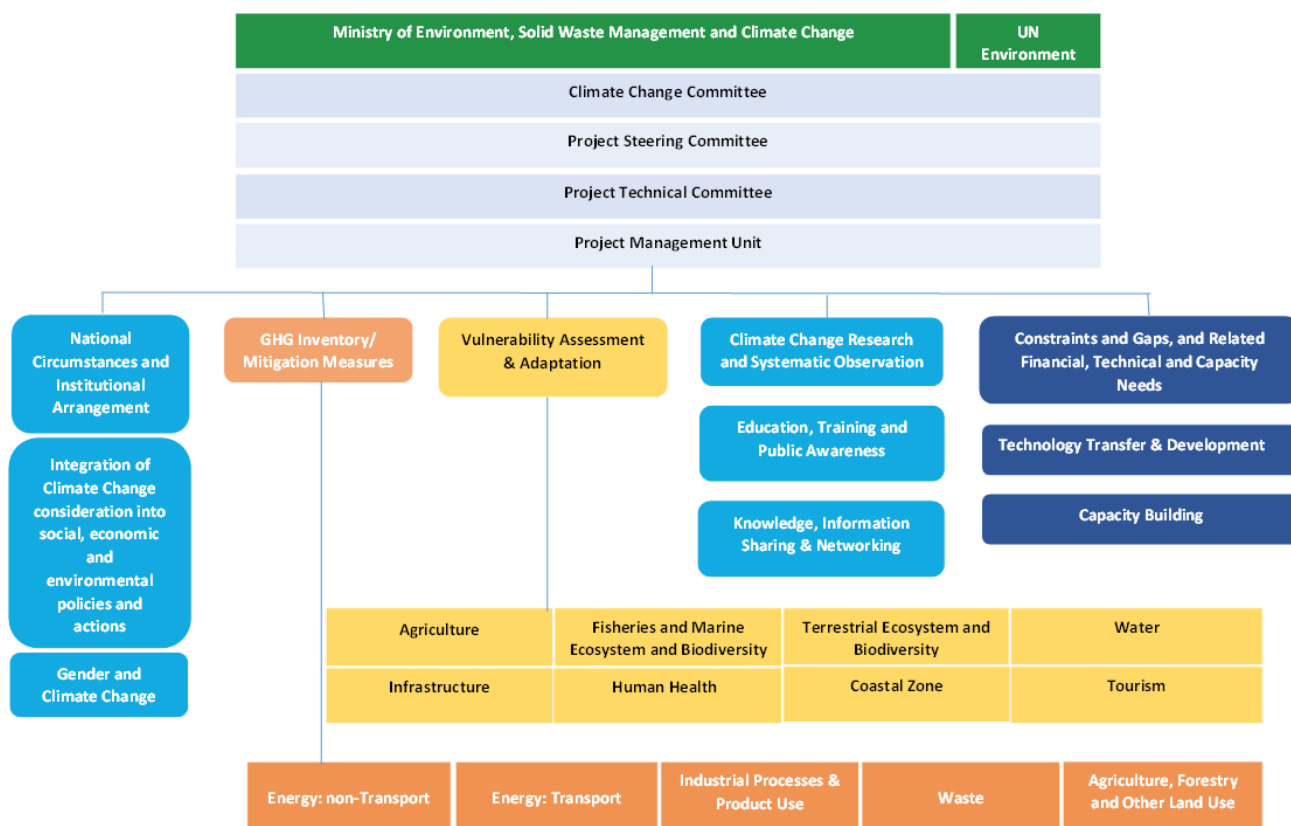
Department of Climate Change (DCC) was established under Section 8(1), and it is headed by a Director. The responsibilities of the Director are stipulated in Section 9(3). The Director is responsible to execute the climate change policy of the Ministry. In turn, the DCC shall be responsible to develop policies, formulate and implement measures, coordinate, monitor and evaluate programmes and action plans relating to climate change, as well as conduct and coordinate research on climate change.

Institutional arrangements

For the preparation of the Third National Communication (TNC), a process of participatory stakeholder consultations by various consultants and technical teams was adopted. Different Technical Working Groups (TWGs) were set up and relevant institutions involved in climate change related activities were officially identified to form part of each of these groups. A Chair was also nominated for each of the working groups. These TWGs were established to oversee the technical implementation in terms of data/information collection and quality control of climate change activities in the various key sectors. Therefore, a more formalized Institutional Arrangement was used. A similar approach was also adopted for the preparation of the First Biennial Update Report (BUR1).

In line with the above, the same formalized Institutional Arrangement was used for the preparation of the Fourth National Communication (NC4) and the BTR (Figure 42). A Project Steering Committee under the chair of the Permanent Secretary of the Ministry of Environment, Solid Waste Management and Climate Change (Environment and Sustainable Development Division) has been set up to provide guidance in terms of the process leading to political and stakeholder acceptance of BTR outcomes and to provide overall quality assurance for the final deliverables of the project, namely the BTR and NIR reports.

Figure 42: Institutional arrangement for BTR1



Five Technical Working Groups (TWGs) were established to oversee the implementation of climate change activities in key areas, namely: the GHG inventory; mitigation assessment and environmentally-sound technologies; adaptation; education, training and public awareness; and research and systematic observation. A Project Technical Committee under the chair of the Director of Climate Change was set up to provide leadership to the BTR process and to deal principally with all technical aspects of the BTR/NIR and to support the work of the different Technical Working Groups (TWGs).

The following five TWGs have been established to oversee the implementation of climate change activities in the various key sectors:

- 1) TWG 1: National Circumstances and Institutional Arrangement/ Integration of Climate Change consideration into social, economic and environmental policies and actions/ Gender and Climate Change
- 2) TWG 2: GHG Inventory/Mitigation Measures
- 3) TWG 3: Vulnerability Assessment & Adaptation
- 4) TWG 4: Climate Change Research and Systematic Observation/ Education, Training and Public Awareness/ Knowledge, Information Sharing & Networking
- 5) TWG 5: Constraints and Gaps, and Related Financial, Technical and Capacity Needs / Technology Transfer and Development/ Capacity Building

Table 3: Composition of the TWGs involved in the preparation of the BTR1

<p>GHG Inventory/NDC Tracking</p> <p>Overall Co-Chairs: Statistics Mauritius & Ministry of Environment, Solid Waste Management and Climate Change (Department of Climate Change)</p> <p>Sub-TWG: GHGI/MM (Energy: non-Transport) – Combines former Energy Industries & Energy Other Sector (Residential, Commercial/Institutional/Manufacturing Industries & Construction and Agriculture/Forestry/ Fishing)</p>

Central Electricity Board (Chair)

- University of Mauritius
- AHRIM
- Business Mauritius
- Energy Efficiency Management Office
- Thermal REs (Alteo; Omnicane; Terragen)
- MARENA
- Mauritius Cane Industry Authority
- Mauritius Export Association
- Mauritius Chamber of Agriculture
- 3 FROM MESWMCC (DCC; SD; Pollution, Prevention and Control Division; Post EIA monitoring)
- MEPU
- Ministry of Industry, SMEs and Cooperatives
- Ministry of Commerce and Consumer Protection (Commerce Division)
- MNIFCD (Architect Division)
- State Trading Corporation
- Statistics Mauritius (Environment)

Sub-TWG: GHGI/MM (Energy: Transport) - (Road Transportation, Civil Aviation & Water borne Navigation)

- **Ministry of Land Transport (Co-Chair)**
- **External Communication Division (Prime Minister's Office) Co-Chair**

- Air Mauritius Ltd
- Airports of Mauritius Ltd
- Department of Civil Aviation
- Mauritius Ports Authority
- Mauritius Shipping Corporation Ltd
- Mauritius Tourism Authority
- Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries (Shipping Division)
- MEPU
- MESWMCC (DCC; Coordination and Project Implementation Division)
- Metro Express Ltd
- Ministry of National Infrastructure (Mechanical Engineering Division)
- National Land Transport Authority
- Statistics Mauritius
- Traffic Management and Road Safety Unit

Sub-TWG: GHGI/MM (Industrial Processes & Product Use)

MESWMCC (National Ozone Office) (Chair)

- MCFI Ltd
- Mauritius Chamber of Industry and Commerce
- MESWMCC (DCC)
- Ministry of Industry, SMEs and Cooperatives (Industrial Development Division)
- Samlo Ltd
- Statistics Mauritius

Sub-TWG: GHGI/MM (Waste) - Solid & Liquid Wastes

Solid Waste Management Division (co-Chair)

Wastewater Management Authority (co-Chair)

- AHRIM
- MESWMCC (DCC; Pollution, Prevention, and Control Division)
- Ministry of Health and Wellness
- NEL

- Sotravic Ltd
- Statistics Mauritius

Sub-TWG: GHGI/MM (Agriculture, Forestry and Other Land Use)

Forestry Service (co-Chair)

Food and Agricultural Research and Extension Institute (Crop or livestock) (co-Chair)

- MCFI
- FAREI (Crop or livestock)
- Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries (Land Use Division)
- Mauritius Cane Industry Authority (MSIRI)
- Mauritius Chamber of Agriculture
- Mauritius Meat Authority
- Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries (Albion Fisheries Research Centre)
- MESWMCC(DCC)
- MHLUP (Cartography Section)
- National Parks and Conservation Service
- Omnicane Ltd
- Statistics Mauritius

B. Description of a Party’s nationally determined contribution under Article 4 of the Paris Agreement, including updates

1. Emission reduction target for 2030

The Republic of Mauritius aims to reduce overall GHG emissions by 40% in 2030 compared to the Business as Usual (BAU) scenario of around 6,900 ktCO₂eq (including LULUCF) in 2030. This economy-wide emissions reduction target comprises sector specific mitigation targets for energy, transport, waste and Industrial Processes and Product Use (IPPU). Mauritius confirms its commitment to implement policies and measures on LULUCF and Agriculture sectors in line with its national policy and strategy documents on climate change and sustainable development.

Mauritius actions on adaptation are centred around the 2021 Updated National Climate Change Adaptation Policy Framework that focuses on the potential of nature-based solutions for adaptation and provides a new policy orientation in key adaptation sectors to build resilience. The implementation of mitigation and adaptation actions as identified in this NDC is unconditional as well as conditional on external financial support received. The total financial needs to implement the NDC targets are estimated at USD 6.5 billion. The share for the unconditional and conditional contributions for the USD 6.5 billion is as follows:

- Unconditional amount of USD 2.3 billion (from government and private sector) representing 35%; and
- Conditional amount of USD 4.2 billion (from international sources and donor agencies) representing 65%.

Information on the description of Mauritius’ NDC under Article 4 of the Paris Agreement in accordance with Decision 5/CMA.3 is shown in *Table 4*.

Table 4: Description of a Party’s nationally determined contribution under Article 4 of the Paris Agreement, including updates

Target(s) and description, including target type(s), as applicable	Mauritius aims to reduce overall GHG emissions by 40% in 2030 compared to the Business as Usual (BAU) scenario of about 6,900 ktCO₂eq (including LULUCF) in 2030. The BAU emission projections were done considering AR2 GWP values.
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Recalculating the projections with AR5 GWP values increases BAU emissions to about 7,000 ktCO _{2e} in 2030.	
Target year(s) or period(s), and whether they are single-year or multi-year target(s), as applicable	Single year target and target year is 2030.
Reference point(s), level(s), baseline(s), base year(s) or starting point(s), and their respective value(s), as applicable	Reference point for Republic of Mauritius' NDC target is 2030 BAU projection of around 6900 ktCO _{2e} . The BAU projection was based on 2000 to 2016 GHG inventory. The projections were recalculated using AR5 GWP values and emissions were projected to be around 7,000 ktCO _{2e} .
Time frame(s) and/or periods for implementation, as applicable	Implementation period is from 2021 till 2030
Scope and coverage, including, as relevant, sectors, categories, activities, sources and sinks, pools and gases, as applicable	<p>Republic of Mauritius' NDC target is an economy-wide emissions reduction target comprising sector specific mitigation targets for energy, transport, waste and Industrial Processes and Product Use (IPPU). The contribution by each sector to the 40% mitigation target in terms of avoided emissions (ktCO_{2e}) is as it follows: –</p> <p>Energy excluding transport: 2311 (Renewable Energy Roadmap for the Electricity Sector 2019, Government Programme 2020 -2024, Government Budget 2021 - 2022, Mauritius Renewable Energy Compact 2021)</p> <p>Transport: 129 (combination of on-going government policies and Research Paper2)</p> <p>Waste: 313 (Waste Management Sector Review and GHG Emission Reduction Potential, 2021)</p> <p>IPPU: 55 (Mauritius' commitment under the Kigali Amendment to the Montreal Protocol).</p> <p>Gases covered: CO₂, CH₄, N₂O and HFCs</p>
Intention to use cooperative approaches that involve the use of ITMOs under Article 6 towards NDCs under Article 4 of the Paris Agreement, as applicable	Republic of Mauritius intends to develop policies and regulations for co-operative approach under Article 6 of Paris Agreement
Any updates or clarifications of previously reported information, as applicable	The Second NDC submitted by republic of Mauritius in 2021, projects BAU emissions in 2030 to be around 6900 kt CO _{2e} . The BAU projections were carried out considering AR5 GWP values. The BAU projections were recalculated using AR5 GWP values and emission are expected to be about 7,000 kt CO _{2e} .

C. Information necessary to track progress made in implementing and achieving nationally determined contributions under Article 4 of the Paris Agreement

1. Description of selected indicators

Republic of Mauritius will select total greenhouse gas emissions as an indicator to track progress in implementing and achieving the NDC with a target year of FY 2030 submitted to the secretariat of the UNFCCC under the Paris Agreement.

The definitions needed to understand the indicator are shown in the Table 5.

Table 5: CTF Table 1 Structured Summary: Description

Definition needed to understand each indicator:	Definitions
Any sector or category defined differently than in the national inventory report:	The indicator is GHG emission reduction, including removals from sink in LULUCF category
1. Energy	The energy sector is split into two categories, namely energy (non-transport) and transport. Within energy (non-transport), categories 1A1 - energy industries, 1A2- manufacturing industries, 1A4 - other sectors and 1A5 - energy not specified elsewhere are covered. Category 1A3-transport is considered under transport
Definition needed to understand mitigation co-benefits of adaptation actions and/or economic diversification plans:	
Adaptation actions	<p>Mauritius' actions on adaptation are centered around the 2021 Updated National Climate Change Adaptation Policy Framework that focuses on the potential of nature-based solutions for adaptation and provides a new policy orientation in key adaptation sectors to build resilience as it follows:</p> <ul style="list-style-type: none"> • The enhancement of the knowledge base regarding the risks of climate change and the impacts on communities; • Developing and implementing an integrated approach which combines the following sectors namely; Fisheries (Blue Economy), Tourism, Biodiversity (Terrestrial and Marine), Forestry, Agriculture and Coastal Zone; • Enhancing strategic frameworks to address policy gaps and improve expertise in the Health sector, including, through integrating climate risks into planning and developing policies in the National Adaptation Plan; and • Increasing resilience of human-led activities whilst preserving ecosystem functions, through improving governance, enhancing disaster preparedness and response mechanisms, for infrastructure and disaster risk reduction sectors.
Any other relevant definitions	NA

2. Methodologies and accounting approaches for tracking progress toward implementing and achieving the NDC

Details of the methodologies and accounting approaches to be used to track progress in implementing and achieving the NDC are provided in the *Table 6*.

Table 6: Details of the methodologies and accounting approaches to be used to track progress

Reporting requirement	Description or reference to the relevant section of the BTR
For the first NDC under Article 4: ^a	
Accounting approach, including how it is consistent with Article 4, paragraphs 13–14, of the Paris Agreement (para. 71 of the MPGs)	NA
For the second and subsequent NDC under Article 4, and optionally for the first NDC under Article 4: ^b	
Information on how the accounting approach used is consistent with paragraphs 13–17 and annex II of decision 4/CMA.1 (para. 72 of the MPGs)	Republic of Mauritius applies the guidance for accounting for NDCs (4/CMA.1, annex II) in accordance with paragraph 14 of Decision 4/CMA.1 on the methodologies and accounting approaches for its second NDC and reports the relevant information.
Explain how the accounting for anthropogenic emissions and removals is in accordance with methodologies and common metrics assessed by the IPCC and in accordance with decision 18/CMA.1 (para. 1(a) of annex II to decision 4/CMA.1)	1. The selected indicator, national total GHG emissions, is calculated based on the 2006 IPCC Guidelines 2. The global warming potentials (GWPs) presented in the IPCC Fifth Assessment Report (AR5) are used to calculate the national total GHG emissions in CO ₂ equivalent in accordance with the relevant provisions of the MPGs (18/CMA.1, Annex). 3. These methods of estimation are subject to change depending on the progress of future international negotiations on estimating and accounting rules.
Explain how consistency has been maintained between any GHG data and estimation methodologies used for accounting and the Party's GHG inventory, pursuant to Article 13, paragraph 7(a), of the Paris Agreement, if applicable (para. 2(b) of annex II to decision 4/CMA.1)	The national total GHG emissions used to account for NDC are the values reported in the National Inventory Report. Thus, the two are fully consistent.
Explain how overestimation or underestimation has been avoided for any projected emissions and removals used for accounting (para. 2(c) of annex II to decision 4/CMA.1)	The national total GHG emissions and contributions from the LULUCF used to account for the NDC are estimated based on the principle of accuracy and the good practices as stated in the IPCC Guidelines, to avoid estimates being overestimated or underestimated to the extent possible.
For each NDC under Article 4: ^b	
Accounting for anthropogenic emissions and removals in accordance with methodologies and common metrics assessed by the IPCC and adopted by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement (para. 12(a) of decision 4/CMA.1 and para 1 of its annex II):	

Each methodology and/or accounting approach used to assess the implementation and achievement of the target(s), as applicable (para. 74(a) of the MPGs)	The implementation and achievement of the target in Republic of Mauritius' NDC will be done by comparing the Business as Usual (BAU) emissions in 2030 with the total economy-wide GHG emissions including LULUCF
Each methodology and/or accounting approach used for the construction of any baseline, to the extent possible (para. 74(b) of the MPGs)	The baseline for comparison of NDC target achievement for Republic of Mauritius is the projection of Business-as-Usual emissions in 2030. The sector wise GHG emissions in 2016 as reported in National Inventory report, 2021 was taken as the basis for projection and exponential smoothing technique was used to project BAU emissions in 2030.
If the methodology or accounting approach used for the indicator(s) in table 1 differ from those used to assess the implementation and achievement the target, describe each methodology or accounting approach used to generate the information generated for each indicator in table 4 (para. 74(c) of the MPGs)	Methodologies and accounting approaches used to develop the information on each indicator in CTF Table 4 are identical to those used for each indicator in CTF Table 1.
Any conditions and assumptions relevant to the achievement of the NDC under Article 4, as applicable and available (para. 75(i) of the MPGs)	The achievement of NDC under Article 4 of the Paris Agreement is conditional to the receipt of external financial support of USD 4.5 billion for implementation of mitigation and adaptation measures
Key parameters, assumptions, definitions, data sources and models used, as applicable and available (para. 75(a) of the MPGs)	Information on methodologies, data sources, etc. on national total GHG emissions and contributions from the LULUCF sector used to track and evaluate the implementation and achievement of the NDC is explained in detail in the National Inventory Report.
IPCC Guidelines used, as applicable and available (para. 75(b) of the MPGs)	2006 IPCC Guidelines for National Greenhouse Gas Inventories
Report the metrics used, as applicable and available (para. 75(c) of the MPGs)	GWPs of a 100-year time horizon presented in IPCC Fifth Assessment Report (AR5)
For Parties whose NDC cannot be accounted for using methodologies covered by IPCC guidelines, provide information on their own methodology used, including for NDCs, pursuant to Article 4, paragraph 6, of the Paris Agreement, if applicable (para. 1(b) of annex II to decision 4/CMA.1)	Not applicable
Provide information on methodologies used to track progress arising from the implementation of policies and measures, as appropriate (para. 1(d) of annex II to decision 4/CMA.1)	Not applicable
Where applicable to its NDC, any sector-, category or activity-specific assumptions, methodologies and approaches consistent with IPCC guidance, taking into account any relevant decision under the Convention, as applicable (para. 75(d) of the MPGs):	

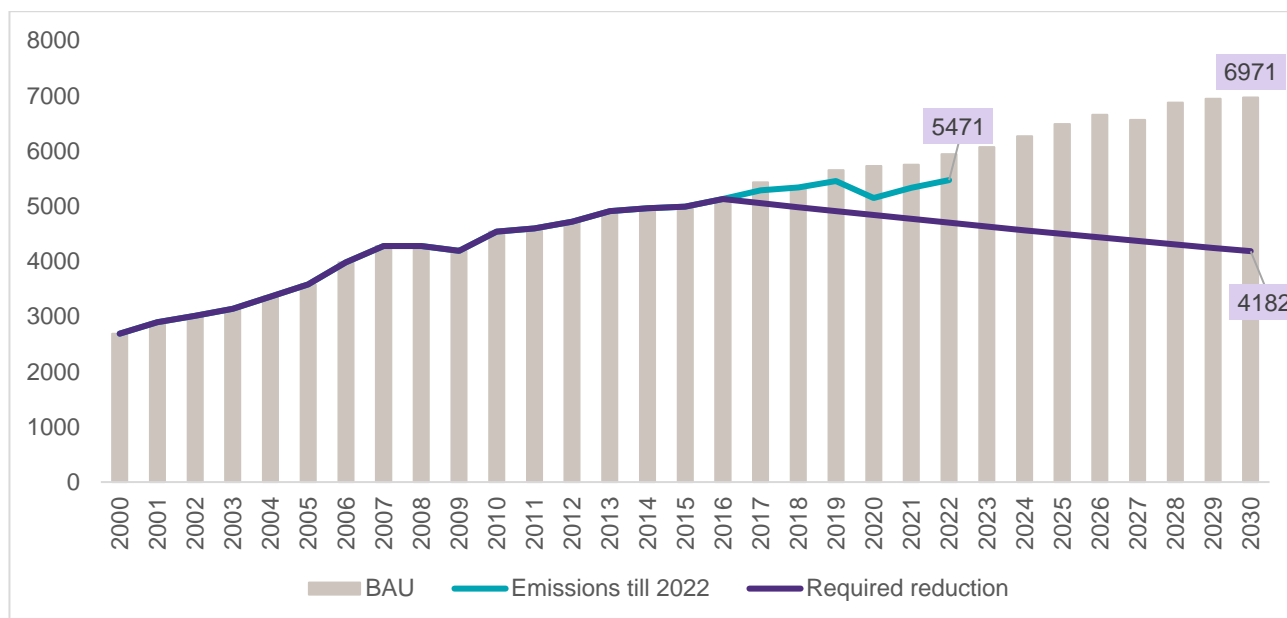
<p>How the Party has drawn on existing methods and guidance established under the Convention and its related legal instruments, as appropriate, if applicable (para. 1(c) of annex II to decision 4/CMA.1)</p>	<p>Not applicable</p>
<p>Any methodologies used to account for mitigation benefits of adaptation actions and/or economic diversification plans (para. 75(e) of the MPGs)</p>	<p>Not applicable</p>
<p>Describe how double counting of net GHG emission reductions has been avoided, including in accordance with guidance developed related to Article 6 if relevant (para. 76(d) of the MPGs)</p>	<p>Republic of Mauritius is currently developing framework for participation in co-operation under Article 6 of Paris Agreement. As such double accounting of GHG emission reduction is currently not applicable.</p>
<p>Any other methodologies related to the NDC under Article 4 (para. 75(h) of the MPGs)</p>	<p>Not applicable</p>
<p>Ensuring methodological consistency, including on baselines, between the communication and implementation of NDCs (para. 12(b) of the decision 4/CMA.1 and para 1 of its annex II):</p>	
<p>Explain how consistency has been maintained in scope and coverage, definitions, data sources, metrics, assumptions and methodological approaches including on baselines, between the communication and implementation of NDCs (para. 2(a) of annex II to decision 4/CMA.1)</p>	<ol style="list-style-type: none"> 1. At the time of communication of the 2nd NDC, the 100-year GWPs in the IPCC Second Assessment Report (AR2 GWP) were to be used for metrics, but the 100-year GWPs in the IPCC Fifth Assessment Report (AR5 GWP) will be used for tracking and evaluating progress toward implementing and achieving the NDC, in accordance with MPGs. Since NDC of Republic of Mauritius is with respect to 2030 BAU scenario, the BAU projections will be recalculated considering 100-year GWP values provided in AR5. 2. There is no methodological inconsistency with respect to matters other than metrics between the communication and implementation of the NDC.
<p>Explain how consistency has been maintained between any GHG data and estimation methodologies used for accounting and the Party's GHG inventory, pursuant to Article 13, paragraph 7(a), of the Paris Agreement, if applicable (para. 2(b) of annex II to decision 4/CMA.1) and explain methodological inconsistencies with the Party's most recent national inventory report, if applicable (para. 76(c) of the MPGs)</p>	<ol style="list-style-type: none"> 1. The methodologies used to estimate GHG emissions and removals for accounting NDC and the methodologies used in the GHG inventory are identical and consistent. 2. There are no methodological inconsistencies between the most recent national inventory report and the NDC accounting.
<p>For Parties that apply technical changes to update reference points, reference levels or projections, the changes should reflect either of the following (para. 2(d) of annex II to decision 4/CMA.1):</p>	
<p>Explain how any methodological changes and technical updates made during the implementation of their NDC were transparently reported (para. 2(e) of annex II to decision 4/CMA.1)</p>	<p>In the GHG inventory, if the methodology or data used for GHG emissions in a category is revised, GHG emissions for all years are recalculated in a manner that ensures time-series consistency, including base year emissions.</p>
<p>Striving to include all categories of anthropogenic emissions or removals in the NDC and, once a source, sink or activity is included, continuing to include it (para. 12 (c) of decision 4/CMA.1 and para. 3 of annex II to decision 4/CMA.1):</p>	

<p>Explain how all categories of anthropogenic emissions and removals corresponding to their NDC were accounted for (para. 3(a) of annex II to decision 4/CMA.1)</p>	<p>The 2030 GHG emission reduction target in Republic of Mauritius's NDC covers GHG emissions from all IPCC categories. The methodologies for GHG emissions from all categories and the contribution from the LULUCF are reported in detail in the National Inventory Report.</p>
<p>Explain how Party is striving to include all categories of anthropogenic emissions and removals in its NDC, and, once a source, sink or activity is included, continue to include it (para. 3(b) of annex II to decision 4/CMA.1)</p>	<p>Republic of Mauritius' 2030 GHG emission reduction target in its NDC covers GHG emissions from all IPCC categories. In addition, once a category's emissions have been reported in its GHG inventory, it has continued to report emissions in subsequent inventories. The sub-category of Lime production under IPPU category has been discontinued in the GHG inventory for 2017 to 2022, since lime production has ceased in Republic of Mauritius from 2014 onwards.</p>
<p>Provide an explanation of why any categories of anthropogenic emissions or removals are excluded (para. 12 (c) of decision 4/CMA.1 and para. 4 of annex II to decision 4/CMA.1)</p>	<p>The sub-category of Lime production under IPPU category has been discontinued in the GHG inventory for 2017 to 2022, since lime production has ceased in Republic of Mauritius from 2014 onwards.</p>

3. Information to track progress made in implementing and achieving its NDC under Article 4

Total greenhouse gas emissions (including LULUCF) in 2022 were 5471 Gg CO₂ equivalent, as against a BAU projection of 5943 Gg CO₂ equivalent, which is a 7.9% reduction from BAU scenario. The BAU emission projections, emissions till 2022 and the required emission reduction trend till 2030 are shown in *Figure 43*.

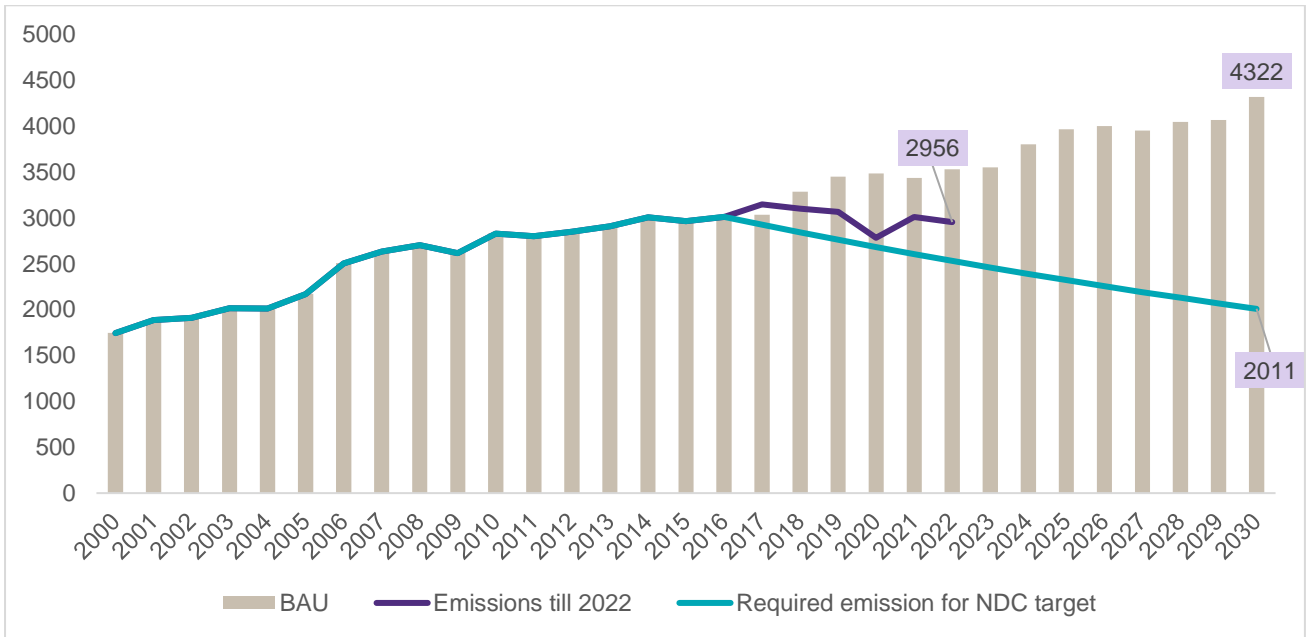
Figure 43: BAU emission projections, emissions till 2022 and required emission reduction trend till 2030



Energy Sector

Total greenhouse gas emissions from energy non-transport sector in 2022 were approximately 2956 Gg CO₂ equivalent, as against a BAU projection of 3533 Gg CO₂ equivalent, which is a 16% reduction from BAU scenario. The BAU emission projections, emissions till 2022 and the required emission reduction trend till 2030 are shown in *Figure 44*.

Figure 44: BAU emission projections for Energy Sector, emissions till 2022 and the required emission reduction trend till 2030

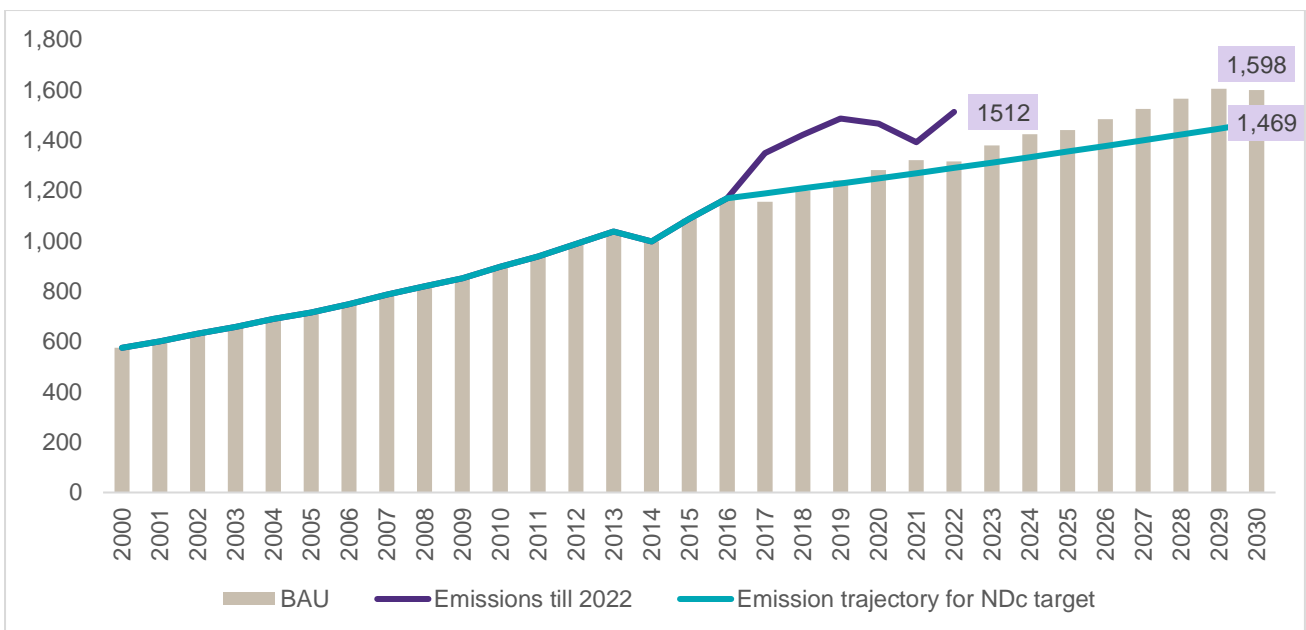


Mauritius has increased the share of RE especially solar energy in the electricity generation mix from 2017 onwards. The country has achieved considerable emission reductions by reducing coal use for electricity generation. Mauritius plans to completely replace coal by 2030 to meet its NDC target.

Transport Sector

Total GHG emissions from transport sector in 2022 were approximately 1512 Gg CO₂ equivalent, as against a BAU projection of 1315 Gg CO₂ equivalent, which is a 15% increase from BAU scenario. The BAU emission projections, emissions till 2022 and the required emission reduction trend till 2030 are shown in Figure 45.

Figure 45: BAU emission projections for Transport sector, emissions till 2022 and the required emission reduction trend till 2030

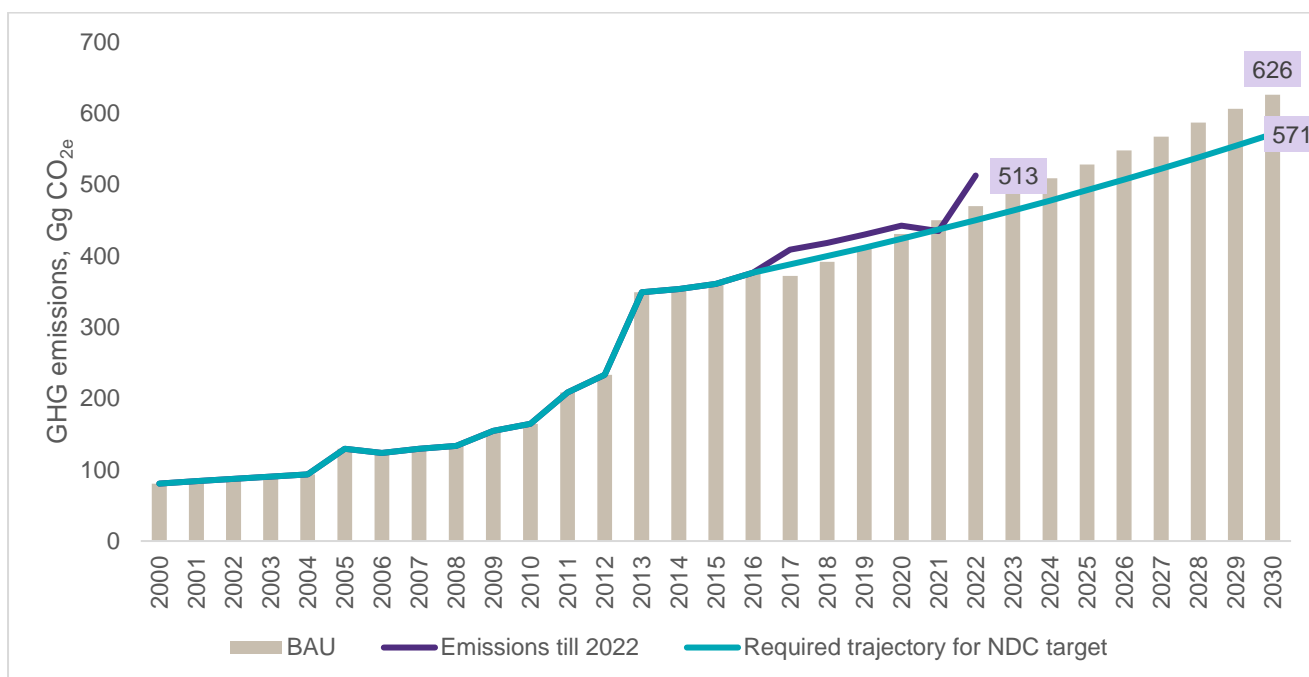


Republic of Mauritius intended to reduce emissions in transport sector by increasing incentives for electric vehicles. However, the implementation of such incentive scheme has not been possible due to the lack of adequate international funding.

IPPU Sector

The total greenhouse gas emissions from IPPU sector in 2022 were approximately 513 Gg CO₂ equivalent, as against a BAU projection of 470 Gg CO₂ equivalent, which is a 9% increase compared to BAU scenario. The BAU emission projections, emissions till 2022 and the required emission reduction trend till 2030 are presented in *Figure 46*.

Figure 46: BAU emission projections for IPPU Sector, emissions till 2022 and the required emission reduction trend till 2030

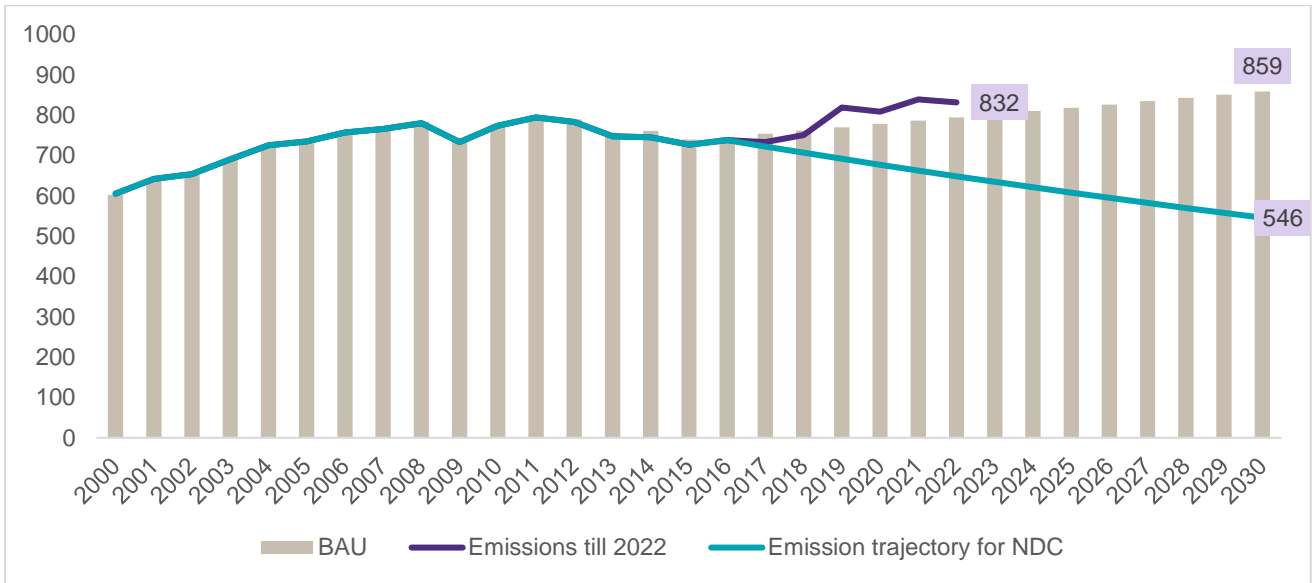


The emissions from IPPU sector saw an increase compared to BAU due to the increase in use of refrigerants used for stationary and mobile air conditioning. Mauritius as part of its Kigali Plan, intends to reduce the use of HFCs within the country. However external financial support will be required for implementation of the plan.

Waste Sector

The total greenhouse gas emissions from Waste sector in 2022 were approximately 832 Gg CO₂ equivalent, as against a BAU projection of 795 Gg CO₂ equivalent, which is a 5% increase compared to BAU scenario. The BAU emission projections, emissions till 2022 and the required emission reduction trend till 2030 are presented in *Figure 47*.

Figure 47: BAU emission projections for Waste Sector, emissions till 2022 and the required emission reduction trend till 2030

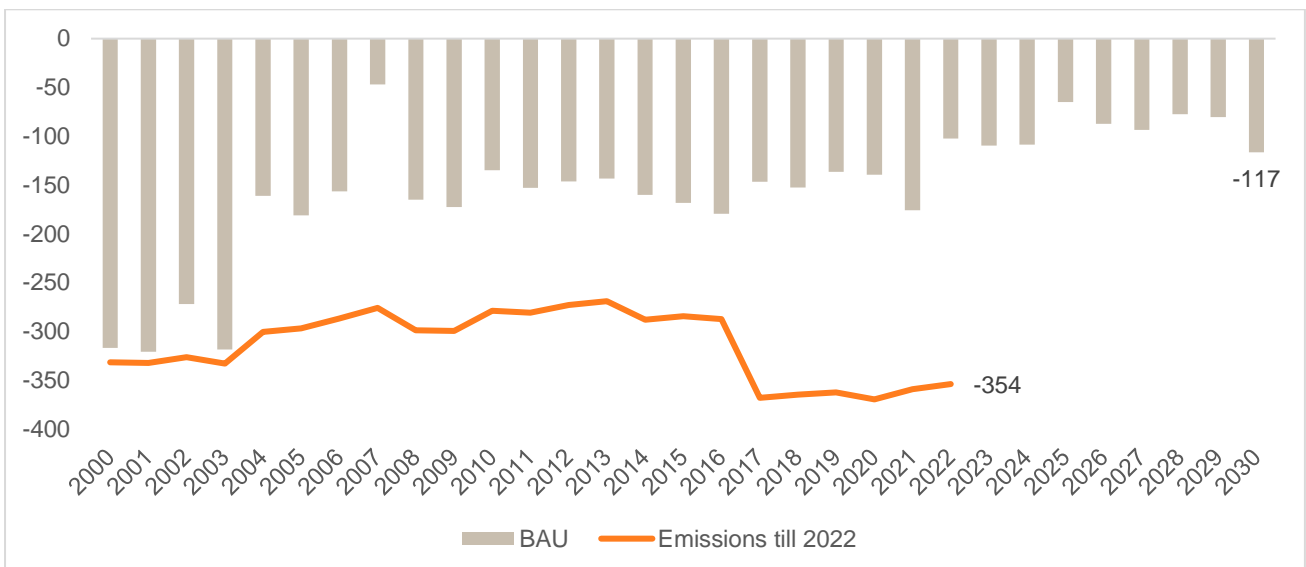


The waste sector experienced a jump in emissions from 2017 onwards due to the breakdown of the biological treatment plant. Mauritius intended to reduce emissions in the Waste sector by diverting 70% of its landfill waste after segregation for biological treatment and waste to energy plants. Due to lack of external financial support, Mauritius has currently not been able to increase the share of biological treatment. On the contrary, due to lack of fund, the existing biological treatment plant has not been in operation since 2017.

AFOLU Sector

The total greenhouse gas removals from AFOLU sector in FY 2022 were approximately 198 Gg CO₂ equivalent, as against a BAU emission removal projection of 103 Gg CO₂ equivalent, which is around 90% higher than BAU projection. The BAU emission removal projections till 2030 are shown in Figure 48.

Figure 48: BAU emission removal projections for AFOLU Sector till 2030



Mauritius is well endowed with natural forests and a large portion of the country is also covered by privately held forests. Moreover, there are multiple small uninhabited islands in Mauritius whose forestry and mangrove related

data is currently not available. The country's emission sink availability is expected to be much higher than the quantified figure (due to lack of information).

D. Mitigation policies and measures, actions and plans, related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement

1. Introduction

The Climate Change Act of Mauritius was gazetted in November 2020 and came into effect in April 2021. The act defines the roles and responsibilities of institutions involved in climate change governance. For example, the Department of Climate Change is responsible for coordinating the implementation of commitments to international climate change agreements. The act regulates the National Climate Change Mitigation Strategy and Action Plan, National Climate Change Adaptation Strategy and Action Plan, & National Inventory Report.

Various policies, actions and plans have been formulated and enacted to mitigate impacts of climate change. Some of the key interventions under each sector are highlighted in the subsequent sectors.

2. Energy sector

Energy sector is representing the largest share of emissions in the country. Various policies, plans and actions have been initiated by concerned ministries and departments. Some of the key interventions under Energy sector are highlighted next:

Table 7: Mitigation Action 2.1 (Energy Sector)

Mitigation Action 2.1	Accelerating the transformational shift to a low-carbon economy in the Republic of Mauritius
Objective	The project will provide the enabling environment for the scaling up of renewable energy in Mauritius thereby bringing the transformational change advocated by the Green Climate Fund (GCF). The project will curtail both the regulatory and infrastructural barriers for a paradigm shift in power generation in Mauritius.
Description	<p>The project is being implemented in two phases with the following three components:</p> <ul style="list-style-type: none"> ➤ Component 1: Institutional strengthening for renewable energy ➤ Component 2: Improving grid absorption capacity followed by PV deployment ➤ Component 3: PV mini grids on the Outer Island of Agalega <p>The project activities are designed with an emission reduction target of 190,951 tCO_{2e} by the end of 2027. As of December 2023, a total capacity of 3.7 MW rooftops solar PV panels have been successfully installed and commissioned, which results in an estimated ~2,990 tCO_{2e} direct emissions reductions.</p>
Type of instrument	Regulatory, Policy and action plan
Status	Adopted
Start year of implementation	2017
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Mauritius Renewable Energy Agency (MARENA), Central Electricity Board (CEB)
GHG Emission reduction	190,951 tCO _{2e} (Target by 2027)

Table 8: Mitigation Action 2.2 (Energy Sector)

Mitigation Action 2.2	Mandatory Energy Labelling and Minimum Energy Performance Standard
Objective	To mitigate GHG emissions and reduce energy consumption by helping consumers make informed purchase decisions through improved energy efficiency, utilizing rescaled energy labels to lower fossil fuel imports and greenhouse gas emissions.
Description	<p>The policy and regulatory initiatives include following actions:</p> <ul style="list-style-type: none"> • Implement the Energy Efficiency (Labelling of Regulated Machinery) Regulations 2017 for refrigerators, ovens, and dishwashers. Extend these regulations to air conditioners and washing machines. • Amend the Energy Efficiency (Labelling of Regulated Machinery) Regulations 2017. • Launch a media campaign to inform the public about energy efficiency. • Phase out the importation of fixed speed compressor air conditioners • Ban the importation of all incandescent light bulbs used for general lighting to promote more energy-efficient lighting. • Establish procedures to monitor energy efficiency and consumption, aiming for public institutions to reduce their electricity consumption by at least 5%. • Define Minimum Energy Performance Standard (MEPS) for Air conditioners
Type of instrument	Regulatory, Policy and action plan
Status	Adopted
Start year of implementation	2017
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Energy and Public Utilities (Energy Efficiency Management Office)

Table 9: Mitigation Action 2.3 (Energy Sector)

Mitigation Action 2.3	Accelerating the Transition to a Net-Zero Nature-Positive Economy in Mauritius (NZNPA) Project
Objective	The objective of the project is to accelerate the decarbonisation of the manufacturing sector and to establish the enabling conditions to support the integration of nature-based solutions at national level.
Description	The Ministry has completed the Project Preparation Phase and has already submitted its Project Document for approval to the donor (GEF). The Project Document delineates the modalities and the activities with timeframes for implementation over the next four years, 2025-2028.
Type of instrument	Policy and pilot demonstration
Status	Adopted
Start year of implementation	2023
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Industry SMEs and Cooperatives (Industrial Development Division)

Table 10: Mitigation Action 2.4 (Energy Sector)

Mitigation Action 2.4	Energy Efficiency Audit Scheme for the Manufacturing Sector (EEASMS)
Objective	The objective of the Scheme is to accelerate the transition towards a carbon neutral industrial sector.
Description	The Scheme provides for a one-off grant of 75% of the energy audit cost, up to a maximum of Rs 300,000, to be incurred on a production site of a manufacturing enterprise. It is now applicable to all manufacturing enterprises (having an annual turnover above Rs 10 million) which intend to embark on an energy audit exercise.
Type of instrument	Policy and financial instrument
Status	Implemented
Start year of implementation	2023
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Industry, SMEs and Cooperatives (Industrial Development Division)

Table 11: Mitigation Action 2.5 (Energy Sector)

Mitigation Action 2.5	Modal shift to a mass transport system (Light Rail)
Objective	To collaboratively develop and operate an economically and environmentally sustainable light rail network by reducing traffic congestion and carbon emission.
Description	The activity includes following actions: <ul style="list-style-type: none"> • Construction for the Metro Express Project (Completed) • Extension of Metro Express Network (Completed) • Installation of Solar PV System in parks and station under MEL • Installation of Solar PV System in a solar form
Type of instrument	Action
Status	Implemented (Two phases of the project are completed. Solar PV Project is under planning stage)
Start year of implementation	2017
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Land Transport (Metro Express Ltd)

Table 12: Mitigation Action 2.6 (Energy Sector)

Mitigation Action 2.6	Strategies and Projects to combat climate change for Air Transport
Objective	The objective of the program is to accelerate the transition towards a carbon neutral Air Transport sector.
Description	The activity includes following actions: <ul style="list-style-type: none"> • Operate new generation aircraft with 25% more fuel efficiency for international routes

Mitigation Action 2.6		Strategies and Projects to combat climate change for Air Transport
		<ul style="list-style-type: none"> • Reduce Engine Taxi for ATR 72 Aircraft with one engine ON after landing - Reduce fuel consumption while taxiing • Introduce electric vehicles for ground operations in Mauritius • Air Mauritius conducts engine wash as per their aircraft maintenance program for engine performance and fuel savings • To deploy an optimised Building Management System (BMS) to enable accurate control of pumping systems and air systems. • Replacement of conventional equipment's with energy efficient equipment's (Such as LEDs, AHUs, Motors, ACs, Sensors for lighting control) • Implementation of a solar farm at the airport • Reduce single use plastics on board
Type of instrument		Policy and action plan
Status		Under implementation New generation aircraft with 25% more fuel efficiency introduced in international routes EVs have already being introduced in phased manner Engine wash – continuous process BMS – ongoing
Start year of implementation		2012
Gases affected		CO ₂ , CH ₄ , N ₂ O
Implementing agencies		Air Mauritius Ltd, Airport of Mauritius Limited (AML) and Airport Terminal Operations Limited (ATOL)

Table 13: Mitigation Action 2.7 (Energy Sector)

Mitigation Action 2.7		Strategies and Projects to combat climate change for Shipping
Objective		The objective of the activities to accelerate the transition towards a carbon neutral shipping sector.
Description		<p>The activity includes following actions:</p> <ul style="list-style-type: none"> • Promoting energy efficiency in ships, adopting cleaner fuels, and reducing maritime emissions and other requirements under the MARPOL 73/78 Conventions • Enforcement of Merchant Shipping Notice No. 2 of 2019, which focuses on the reduction of air pollution from ships • Mandating the mandates the Ship Energy Efficiency Management Plan (SEEMP) and the Energy Efficiency Design Index (EEDI) • Launched guidelines to help reduce the environmental impact of invasive species and improve vessel efficiency • Awareness and capacity building
Type of instrument		Policy and action plan
Status		Adopted
Start year of implementation		2019
Gases affected		CO ₂ , CH ₄ , N ₂ O

Mitigation Action 2.7	Strategies and Projects to combat climate change for Shipping
Implementing agencies	Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries'

3. Industrial processes and product use (IPPU) sector

IPPU sector is representing the third largest share of emissions in the country. Majority of the emissions in IPPU sector are from the use of substitutes of ozone depleting substances (ODS). Mauritius ratified the Kigali Amendment in October 2019 committing to phasing down Hydrofluorocarbons (HFC) use by 80% until 2045. To facilitate this, the country uses several existing regulations to issue import licenses and control the HFC imports into the country. The Dangerous Chemical Control Act 2004 is one of the various acts that assists with these controls.

Additionally, the Consumer Protection (Control of Imports) Regulations 2017 enables Mauritius to control the types of equipment imported into the country. Under these regulations, all cooling equipment falls within the scope of control, allowing Refrigeration and Air conditioning (RAC) equipment to be regulated through this Act. The National Ozone Unit is in the process of enacting the Kigali Implementation Plan. Further details on the plan are highlighted below:

Table 14: Mitigation Action 3.1 (IPPU Sector)

Mitigation Action 3.1	Development of Kigali Implementation Plan for Mauritius
Objective	To mitigate GHG emissions by targeting specific sectors such as domestic refrigerators, standalone units, and domestic air conditioners, while working in synergy with the HCFC Phase-down Management Plan
Description	The draft implementation plan proposed the following actions: <ul style="list-style-type: none"> • Implement controls on importing HFC refrigeration and air conditioning (RAC) technologies (e.g., R410A, R404A) with available low/zero GWP alternatives. • Demonstrate low GWP alternatives, particularly for condensing units. • Support training centers with R290 mono block technology and necessary training. • Build capacity through improved training on containment practices for commercial refrigeration and ACs to prevent leakages.
Type of instrument	Regulatory, Economic Instrument, Policy and Action Plan
Status	Planned (Under approval stage)
Start year of implementation	2025 (Proposed)
Gases affected	CO ₂ , HFC
Implementing agencies	Ministry of Environment, Solid Waste Management and Climate Change (National Ozone Unit)

4. Agriculture sector

Various policies, plans and actions have been initiated by concerned ministries and departments to mitigate climate change in Agriculture sector. Some of the key interventions under Agriculture sector are highlighted:

Table 15: Mitigation Action 4.1 (Agriculture Sector)

Mitigation Action 4.1	Standards for treated manure from animal waste
Objective	To train farmers and stakeholders on methods for sanitization of manure to meet set standards
Description	Establish a standard for treated manure, investigate potential of manure solarization and manure solar dehydration as methods for sanitization of cattle and poultry, Testing the treated manure in crop plantations on FAREI Research station, Sensitization campaign.
Type of instrument	Policy and Action Plan
Status	Implemented
Start year of implementation	2018
Gases affected	CH ₄ , N ₂ O
Implementing agencies	Food & Agricultural Research & Extension Institute (FAREI)

Table 16: Mitigation Action 4.2 (Agriculture Sector)

Mitigation Action 4.2	Promotion of small livestock projects at back yard level
Objective	To reduce GHG emission by encouraging farmers to engage in backyard production through rearing of small livestock species such as rabbit, duck and quail.
Description	<p>The following actions have been undertaken:</p> <ul style="list-style-type: none"> • Set up of a nucleus rabbit unit at FAREI Curepipe Livestock Research Station with the objective to produce breeding animals for farmers • Promoting the use of electric artificial incubators to improve hatchability of eggs at farm levels • Publish a booklet on Quail Production in Mauritius, in 2018 • Conduct awareness campaign on quail production through diffusion of a clip-on national TV • One trial undertaken in 2019 to evaluate the laying capability of 4 types of quails. The Jumbo type quail is found to be very promising with a daily feed intake of around 40g per day, giving 1 egg (weighing 12 g) per day over a laying cycle of 33 weeks.
Type of instrument	Policy and action plan
Status	Adopted
Start year of implementation	2018
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Food and Agricultural Research and Extension Institute (FAREI)

Table 17: Mitigation Action 4.3 (Agriculture Sector)

Mitigation Action 4.3	Bioconversion of organic waste into biogas at small and medium scale
Objective	To reduce methane emissions in the livestock sector through low-carbon waste management technologies. Reduce CO ₂ emissions through biogas generation by 12.4 ktCO _{2e} .
Description	Set up of small and medium scale biogas units on livestock farm across Mauritius. FAREI will provide technical assistance for biogas project. Movable/Portable biogas system in the range of 4-15 m ³ shall be promoted.
Type of instrument	Policy and Action Plan
Status	Implemented
Start year of implementation	-
Gases affected	CH ₄ , N ₂ O
Implementing agencies	Food & Agricultural Research & Extension Institute (FAREI)

Table 18: Mitigation Action 4.4 (Agriculture Sector)

Mitigation Action 4.4	Promoting Climate smart agriculture
Objective	To develop and promote Climate Smart practices in Agriculture sector.
Description	The following activities are planned/ being undertaken under the initiative, <ul style="list-style-type: none"> • Building institutional capacity and local communities in Climate SMART Agriculture. • Development of new climate resilient methods of production and dissemination of novel water and energy saving irrigation technologies
Type of instrument	Policy and Action Plan
Status	Adopted
Start year of implementation	2016
Gases affected	CH ₄ , N ₂ O
Implementing agencies	Food & Agricultural Research & Extension Institute (FAREI)

In addition to the above-mentioned mitigation actions, other climate projects for reducing greenhouse gas emissions are listed below:

- Improving the Resilience of Small Farmers to Climate Change “Development of an integrated sheltered farming system comprising of roof-top rainwater harvesting structure, a solar water pump coupled with a pressurized drip fertigation system or a gravity-fed drip irrigation system for vegetable crops production”
- Development of an Integrated Plant Nutrition System (IPNS) as an eco-friendly approach to optimize fertilizer use and management of soil fertility in crop production.
- Enhancing crop nutrition and soil and water management and technology transfer in irrigated systems for increased food production and income generation”

- Optimising fertiliser use in tea cultivation “Review fertilizer recommendation of existing and new tea plantation”
- Testing of new products “Testing of new products as substitutes to chemical fertilizer and for sustaining crop production”
- Development and promotion of the Agro forestry sector to optimize forest land for agricultural purpose, under Organic and Natural techniques.
- Development of high biomass sugarcane varieties as a renewable source of energy
- Development of seaweed Composting Technology
- Development of organic package for vegetable and fruit production
- Development of packages for sustainable management of pest and diseases management
- Biosecurity and Disease Surveillance (IPDM): Systematic pest and disease surveillance programs for key crops are ongoing to monitor and manage pest and disease outbreaks and report on new pests and diseases.
- Vegetables and field crops - Introduction and evaluation of improved varieties
- Vegetables and field crops - Development of new varieties of tomato, potato, bean, cabbage, cauliflower, carrot, eggplant, peas, adapted to biotic and abiotic stress
- Protected culture - Introduction and evaluation of new technologies and products (Hydroponics, Vertical farming and Protected Cultures)
- Fruit production and Orchard Development- Introduction and evaluation of improved varieties, species and local varieties

5. Land use, land use change and forestry (LULUCF) sector

Some of the key interventions taken for climate change mitigation under LULUF sector are highlighted next:

Table 19: Mitigation Action 5.1 (LULUF Sector)

Mitigation Action 5.1	Tree planting and Creation and maintenance of mini-forest, Nature Walk, urban forests, Parks and Garden, etc.
Objective	Increase carbon sequestration, improve environmental and ecological benefits, enhance local microclimate, improve soil, water, and air quality, and mitigate the impact of natural calamities such as floods.
Description	The draft implementation plan proposed the following actions: <ul style="list-style-type: none"> ▪ Plant Production in Forest nurseries ▪ Site selection for tree planting ▪ Site selection for creation of new mini forests/garden/parks. ▪ Tree planting programme throughout the island ▪ Restoration and maintenance of mini forests ▪ Wetlands
Type of instrument	Policy and Action Plan
Status	Adopted
Start year of implementation	2016
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries, Forestry Service, National Parks and Conservation Service, Ministry of Environment, Solid Waste Management and Climate Change, District Council, Municipalities NGOs

Table 20: Mitigation Action 5.2 (LULUF Sector)

Mitigation Action 5.2	Forest restoration – Nature Reserves, Mountain, River Reserves, forest plantation
Objective	To support reduction of forest degradation and improve environmental and ecosystem Services
Description	The draft implementation plan proposed the following actions: <ul style="list-style-type: none"> ▪ Weeding/removal of invasive alien species ▪ Re-introduction of native species ▪ Filling of gaps in plantation forest ▪ Provision of incentive for the restoration of privately owned river and mountain reserves
Type of instrument	Action Plan
Status	Under implementation
Start year of implementation	2020
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries, Forestry Service, National Parks and Conservation Service, private landowners, NGOs

6. Waste sector

Waste sector is representing the second largest share of emissions in the country. Various policies, plans and actions have been initiated by concerned ministries and departments. Some of the key interventions under waste sector are highlighted next:

Table 21: Mitigation Action 6.1 (Waste Sector)

Mitigation Action 6.1	Waste Management and Resource Recovery Act 2023
Objective	To provide for the regulatory framework to ensure the environmentally safe and sound management of solid and hazardous wastes and a sustainable waste management system through the adoption of a circular economy approach focusing on waste reduction, reuse, material recovery and recycling.
Description	The Waste Management and Resource Recovery Act 2023 is already enacted in 2023. The act focuses on the following key activities: <ul style="list-style-type: none"> ▪ Preventing or reducing the generation of waste from products; ▪ Promoting proper cyclical use of products ▪ Ensuring proper disposal of circulative resources which are not put into cyclical use
Type of instrument	Regulatory, Policy and Action Plan
Status	Adopted
Start year of implementation	2023
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Environment, Solid Waste Management and Climate Change (Solid Waste Management Division)

7. Cross-cutting measures

To combat the climate change various policies, plans and actions have been initiated by different ministries and departments. Some of the key interventions impact more than one sectors. Such cross-cutting measures are highlighted next:

Table 22: Mitigation Action 7.1 (Cross-cutting Sector)

Mitigation Action 7.1	Mauritius National Climate Change Mitigation Strategy and Action Plan (NCCMSAP) 2022 - 2030
Objective	The long-term objective of the NCCMSAP is “to contribute towards achieving a net-zero carbon society by 2070 while achieving the Sustainable Development Goals”.
Description	<p>The Climate Change Act (CCA) of Mauritius was gazetted in November 2020 and came into effect in April 2021. The apex body an Inter-Ministerial Council on Climate Change (IMCCC) is established under CCA 2020. The NCCMSAP has been formulated based on the objectives and goals emanating from the Inter-Ministerial Council on Climate Change as captured in the updated NDC. The strategy and action planning has hinged on three interrelated activities, namely: (i) stakeholder engagement; (ii) identification and prioritisation of mitigation actions; and (iii) policy and mitigation scenario analyses, including costing.</p> <p>Mitigation actions were identified using policy documents and expert knowledge on mitigation technologies and deployment pathways that are detailed for each sector below. For the purpose of the NCCMSAP, the definition of sectors has been aligned with the nomenclature of the Intergovernmental Panel on Climate Change (IPCC).</p>
Type of instrument	Policy and action plan (Strategy)
Status	Adopted
Start year of implementation	2022
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Ministry of Environment, Solid Waste Management and Climate Change

Table 23: Mitigation Action 7.2 (Cross-cutting Sector)

Mitigation Action 7.2	Sustainable Island Mauritius (SIM) project
Objective	The objective was to promote sustainable tourism through demonstrating and scaling-up self-sustaining mechanism for improving sustainability impact along the value chain and improving awareness as well as the marketing of sustainable tourism products and services.
Description	<p>The following actions have been undertaken:</p> <ul style="list-style-type: none"> ▪ Capacity Building on Best Sustainable Practices ▪ Policy Facilitation for implementing green practices ▪ Creation of “Horizon Eco” tool to manage and monitor SDG goals by enterprises, which includes energy saving, renewable energy use and waste reduction ▪ Promotion of Circular economy
Sectors covered	Energy, Waste

Mitigation Action 7.2	Sustainable Island Mauritius (SIM) project
Type of instrument	Policy and Action Plan
Status	Adopted
Start year of implementation	2018
Gases affected	CO ₂ , CH ₄ , N ₂ O
Implementing agencies	Mauritius Tourism Authority

Table 24: Mitigation Action 7.3 (Cross-cutting Sector)

Mitigation Action 7.3	Integration of Climate Change in Higher Education
Objective	The objective was to integrate necessary climate related topics in ongoing programs and introduction of new specialisations on climate change.
Description	<p>The following actions have been undertaken:</p> <ul style="list-style-type: none"> ▪ Launched Postgraduate programme - MSc in Climate Change and Sustainable Development ▪ Partnership between UoM and the Ministry of Environment, Solid Waste Management and Climate Change on the research and development component of the Observatoire de l'Environnement ▪ Organised conferences and on climate change ▪ Seeking research funding for climate change projects
Sectors covered	Energy, IPPU, Waste, Agriculture and LULUF
Type of instrument	Other
Status	Adopted
Start year of implementation	2018
Implementing agencies	University of Mauritius, University of Technology Mauritius

E. Summary of greenhouse gas emissions and removals

The summary of greenhouse gas emissions and removals from various categories is shown in table below.

Table 25: Summary of greenhouse gas emissions and removals from various categories

2000-2011

Categories	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
1 - Energy	2320.0	2489.1	2541.8	2674.9	2700.8	2886.5	3252.0	3419.7	3522.5	3468.9	3726.9	3738.3
1.A - Fuel Comb. Activities	2320.0	2489.1	2541.8	2674.9	2700.8	2886.5	3252.0	3419.7	3522.5	3468.9	3726.9	3738.3
1.A.1 - Energy Industries	1177.4	1289.1	1310.6	1400.5	1415.9	1587.3	1864.9	2006.0	2037.3	2018.5	2219.3	2203.8
1.A.1.a - Main Activity Electricity	1177.4	1289.1	1310.6	1400.5	1415.9	1587.3	1864.9	2006.0	2037.3	2018.5	2219.3	2203.8
1.A.2 – Man. Industries and Const.	368.8	398.4	399.1	398.6	374.5	355.9	419.0	416.2	444.3	368.5	374.2	357.6
1.A.3.a - Civil Aviation	4.8	5.1	6.0	6.3	6.1	5.4	5.6	6.3	5.6	4.3	5.9	6.4
1.A.3.b - Road Transport	539.2	562.6	586.6	610.2	644.2	675.3	706.6	739.3	777.6	810.9	849.7	887.1
1.A.3.c - Railways	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.A.3.d - Water-borne Navigation	30.8	32.6	38.2	40.6	38.8	34.8	36.1	40.4	36.1	35.4	41.1	44.3
1.A.3.e - Other Transportation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.A.4 - Other Sectors	199.0	201.3	201.4	218.6	221.3	227.8	219.7	211.5	221.6	231.4	236.7	239.1
1.A.5.a - Stationary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.B - Fugitive emissions from fuel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.C – CO ₂ Transport and Storage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Energy non transport	1745.3	1888.8	1911.1	2017.7	2011.7	2171.0	2503.7	2633.7	2703.2	2618.4	2830.2	2800.5
Transport	574.8	600.3	630.7	657.2	689.1	715.5	748.3	786.0	819.3	850.6	896.7	937.8
2 - IPPU	80.5	84.0	87.1	90.2	93.3	129.3	123.5	129.3	133.3	154.5	164.3	208.4
2.A - Mineral Industry												

Categories	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
2.B - Chemical Industry												
2.C - Metal Industry	19.6	20.2	20.9	21.6	22.2	22.9	23.6	24.3	28.6	32.9	35.0	37.1
2.C.1 - Iron and Steel production	19.6	20.2	20.9	21.6	22.2	22.9	23.6	24.3	28.6	32.9	35.0	37.1
2.D - Non-Energy Products	5.6	5.5	5.5	5.5	5.5	5.5	5.6	4.7	4.3	4.9	5.0	4.2
2.D.1 - Lubricant use	5.1	5.1	5.1	5.1	5.1	5.1	5.2	4.3	4.0	4.5	4.8	4.0
2.D.2 - Paraffin wax use	0.4	0.4	0.4	0.4	0.4	0.3	0.4	0.4	0.2	0.4	0.3	0.3
2.F - Product Uses as Substitutes for ODS	55.4	58.2	60.7	63.2	65.6	100.9	94.2	100.3	100.4	116.8	124.3	167.0
2.F.1 - Refrigeration and Air Conditioning	55.4	58.2	60.7	63.2	65.6	100.9	94.2	100.3	100.4	116.8	124.3	167.0
2.F.1.a - Refrigeration and Stationary Air Conditioning	55.0	57.4	59.6	61.7	63.9	99.0	92.1	97.6	94.8	110.8	118.3	160.1
2.F.1.b - Mobile Air Conditioning	0.4	0.8	1.1	1.4	1.7	1.9	2.2	2.7	5.6	5.9	6.0	6.9
3 - AFOLU	-323.5	-324.1	-318.0	-324.4	-292.0	-288.3	-277.4	-266.8	-289.9	-290.7	-270.4	-272.5
3.A - Livestock	44.7	44.9	45.7	45.2	43.0	45.2	48.8	51.4	45.3	45.0	50.8	51.5
3.A.1 - Enteric Fermentation	34.6	35.0	35.3	34.9	32.6	34.4	35.6	37.0	32.1	31.9	36.3	37.0
3.A.1.a - Cattle	20.8	21.2	20.7	19.9	17.6	18.7	19.5	20.6	16.3	15.3	17.6	18.6
3.A.1.a.i - Dairy Cows	10.0	10.1	9.9	9.5	8.5	9.0	8.1	8.7	6.7	6.1	7.5	8.3
3.A.1.a.ii - Other Cattle	10.8	11.0	10.7	10.3	9.1	9.7	11.4	11.9	9.6	9.2	10.1	10.3
3.A.1.b - Buffalo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.1.c - Sheep	0.9	0.9	0.9	0.9	0.9	1.0	1.0	1.1	0.9	1.2	1.6	1.3
3.A.1.d - Goats	3.3	3.4	4.3	4.3	4.2	4.4	4.9	5.0	4.9	5.2	6.7	6.6
3.A.1.e - Camels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.1.f - Horses	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4

Categories	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
3.A.1.g - Mules and Asses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.1.h - Swine	0.9	0.8	0.8	0.9	0.9	1.0	0.9	1.0	0.7	0.8	1.0	1.1
3.A.1.j - Other	8.4	8.4	8.4	8.7	8.7	9.0	9.0	9.0	9.0	9.0	9.0	9.0
3.A.2 - Manure Management	10.1	9.9	10.4	10.3	10.3	10.9	13.2	14.4	13.2	13.1	14.5	14.6
3.A.2.a - Cattle	3.0	3.0	2.9	2.8	2.5	2.6	4.2	4.8	4.2	3.7	4.5	4.1
3.A.2.a.i - Dairy Cows	2.0	2.0	2.0	1.9	1.7	1.8	1.6	1.7	1.3	1.2	1.5	1.6
3.A.2.a.ii - Other Cattle	1.0	1.0	1.0	0.9	0.8	0.9	2.5	3.1	2.9	2.5	3.0	2.4
3.A.2.b - Buffalo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.2.c - Sheep	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
3.A.2.d - Goats	0.7	0.7	0.9	1.0	0.9	1.0	1.1	1.1	1.2	1.2	1.4	1.4
3.A.2.e - Camels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.2.f - Horses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.2.g - Mules and Asses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.2.h - Swine	3.3	2.9	3.0	3.0	3.3	3.5	3.3	3.4	2.6	2.9	3.0	3.4
3.A.2.i - Poultry	2.9	3.0	3.3	3.3	3.4	3.4	4.3	4.7	4.9	5.0	5.2	5.3
3.A.2.j - Other	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
3.B - Land	-465.3	-464.7	-465.6	-466.8	-432.6	-432.7	-433.1	-433.9	-433.2	-434.0	-434.3	-433.7
3.B.1 - Forest land	-465.3	-464.7	-465.6	-466.8	-432.6	-432.7	-433.1	-433.9	-433.2	-434.0	-434.3	-433.7
3.B.2 - Cropland	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.8	6.0	0.1	0.1	0.4
3.B.3 - Grassland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.B.4 - Wetlands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.B.5 - Settlements	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.B.6 - Other land	0.0	0.0	0.0	7.1	1938.6	66.6	61.7	61.7	61.7	61.7	61.7	67.4
3.C - Aggregate sources and non-CO2 emissions sources on land	95.6	94.6	100.9	96.1	96.0	97.6	106.0	115.6	97.8	97.6	111.1	107.9

Categories	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
3.C.1 - Emissions from biomass burning	5.9	5.9	10.9	6.0	5.7	5.8	9.3	17.5	6.3	7.8	11.1	4.7
3.C.1.a - Biomass burning in forest lands	0.7	0.7	5.7	0.8	0.5	0.6	4.4	13.0	2.3	4.1	7.7	1.6
3.C.1.b - Biomass burning in croplands	5.2	5.2	5.2	5.2	5.2	5.2	4.9	4.5	4.0	3.8	3.4	3.0
3.C.1.c - Biomass burning in grasslands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.1.d - Biomass burning in all other land	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.2 - Liming	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.3 - Urea application	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.4 - Direct N2O Emissions from managed soils	64.2	62.2	62.9	62.9	63.0	63.9	66.4	66.9	61.8	60.4	67.5	69.8
3.C.5 - Indirect N2O Emissions from managed soils	20.5	19.6	19.9	19.9	20.0	20.3	21.2	21.4	20.1	19.7	22.2	22.9
3.C.6 - Indirect N2O Emissions from manure mg	5.0	6.9	7.2	7.3	7.3	7.6	9.1	9.7	9.6	9.7	10.3	10.6
3.C.7 - Rice cultivations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.8 - Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.D - Other	1.4	1.1	1.0	1.1	1.5	1.6	1.0	0.1	0.1	0.6	2.0	1.9
3.D.1 - Harvested Wood Products	1.4	1.1	1.0	1.1	1.5	1.6	1.0	0.1	0.1	0.6	2.0	1.9
3.D.2 - Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 - Waste	605.5	642.4	653.8	690.6	725.2	734.9	756.9	766.4	780.3	733.4	773.6	794.7
4.A - Solid Waste Disposal	338.5	361.1	391.9	424.6	451.7	476.8	505.6	526.1	537.0	485.3	527.8	539.9

Categories	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
4.B - Biological Treatment of Solid Waste	-	-	-	-	-	-	-	-	-	-	-	0.9
4.C - Incineration and Open Burning of Waste	0.6	0.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.6
4.D - Wastewater Treatment and Discharge	266.4	280.8	261.4	265.6	273.0	257.6	250.7	239.8	242.7	247.6	245.3	253.4
TOTAL (excluding LULUCF 3.B and 3.D) (Gg CO_{2e})	3146.4	3355.1	3429.4	3597.1	3658.3	3893.6	4287.2	4482.4	4579.2	4499.5	4826.7	4900.8
TOTAL (net emissions) (Gg CO_{2e})	2682.6	2891.5	2964.8	3131.4	3227.3	3462.4	3855.0	4048.6	4146.1	4066.2	4394.4	4469.0

2012-2022

Categories	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1 - Energy	3836.0	3945.8	4004.5	4054.2	4182.0	4497.3	4523.9	4553.8	4251.0	4402.3	4468.0
1.A - Fuel Comb. Activities	3836.0	3945.8	4004.5	4054.2	4182.0	4497.3	4523.9	4553.8	4251.0	4402.3	4468.0
1.A.1 - Energy Industries	2264.5	2338.0	2417.9	2364.5	2421.5	2564.4	2502.8	2447.2	2212.3	2431.2	2343.4
1.A.1.a - Main Activity Electricity	2264.5	2338.0	2417.9	2364.5	2421.5	2564.4	2502.8	2447.2	2212.3	2431.2	2343.4
1.A.2 – Man. Industries and Const.	350.4	336.2	351.6	354.2	341.8	332.4	331.8	338.5	321.8	316.5	333.8
1.A.3.a - Civil Aviation	6.8	7.0	7.2	8.6	9.8	11.1	11.4	12.1	6.8	2.3	9.4
1.A.3.b - Road Transport	933.9	982.2	942.1	1022.3	1093.9	1270.0	1335.5	1394.8	1387.1	1302.5	1412.2
1.A.3.c - Railways	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1.A.3.d - Waterborne Navigation	46.2	47.7	47.6	56.4	65.5	65.6	71.5	76.3	70.5	84.9	88.2

Categories	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
1.A.3.e - Other Transportation	0.0	0.0	0.0	0.0	0.0	1.7	1.8	1.9	1.2	1.2	2.1
1.A.4 - Other Sectors	234.2	233.9	237.3	247.4	248.6	251.1	268.1	282.1	250.5	262.7	277.9
1.A.5.a - Stationary	0.0	0.8	0.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
1.B - Fugitive emissions from fuel	0.0	0.0	0.0	0.0	0.0						
1.C – CO2 Transport and Storage	0.0	0.0	0.0	0.0	0.0						
Energy non transport	2849.1	2908.9	3007.6	2967.0	3012.8	3148.9	3103.6	3068.7	2785.4	3011.3	2956.0
Transport	986.9	1036.9	996.8	1087.3	1169.2	1348.4	1420.3	1485.1	1465.6	1391.0	1511.9
2 - IPPU	233.3	348.9	353.4	360.7	376.4	408.4	418.0	429.7	442.4	434.9	512.6
2.A - Mineral Industry											
2.B - Chemical Industry											
2.C - Metal Industry	34.1	28.3	26.5	25.4	21.4	26.8	25.4	26.4	22.2	27.6	31.6
2.C.1 - Iron and Steel production	34.1	28.3	26.5	25.4	21.4	26.8	25.4	26.4	22.2	27.6	31.6
2.D - Non-Energy Products	4.5	4.6	4.8	4.4	4.6	4.9	4.8	5.2	4.2	4.3	5.2
2.D.1 - Lubricant use	4.3	4.4	4.7	4.2	4.4	4.7	4.7	5.1	4.1	4.2	5.1
2.D.2 - Paraffin wax use	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.2
2.F - Product Uses as Substitutes for ODS	194.7	316.0	322.1	330.9	350.4	376.7	387.7	398.1	416.0	403.0	475.8

Categories	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
2.F.1 - Refrigeration and Air Conditioning	194.7	316.0	322.1	330.9	350.4	376.7	387.7	398.1	416.0	403.0	475.8
2.F.1.a - Refrigeration and Stationary Air Conditioning	187.7	309.1	315.2	322.2	341.5	367.5	379.3	389.5	407.3	394.2	465.5
2.F.1.b - Mobile Air Conditioning	7.0	6.9	6.9	8.7	8.9	9.2	8.5	8.6	8.7	8.8	10.3
3 - AFOLU	-264.6	-260.9	-279.9	-276.2	-279.3	-354.7	-352.8	-349.6	-352.6	-343.8	-341.2
3.A - Livestock	49.3	50.4	48.1	46.9	45.3	35.1	36.9	37.3	38.2	37.3	37.3
3.A.1 - Enteric Fermentation	35.3	36.3	33.4	32.6	31.5	26.0	27.3	27.3	27.7	27.4	26.9
3.A.1.a - Cattle	17.6	18.6	19.3	19.1	17.5	12.8	13.0	12.7	13.2	13.1	12.8
3.A.1.a.i - Dairy Cows	8.1	8.4	8.7	8.2	7.9	2.0	1.7	1.6	1.6	1.7	1.7
3.A.1.a.ii - Other Cattle	9.5	10.1	10.6	10.9	9.6	10.8	11.3	11.1	11.6	11.4	11.2
3.A.1.b - Buffalo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.1.c - Sheep	1.4	1.5	1.9	1.9	2.1	1.9	1.9	2.1	2.1	2.2	2.1
3.A.1.d - Goats	6.1	6.0	6.4	5.8	6.0	5.4	5.4	5.4	5.3	4.9	4.8
3.A.1.e - Camels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.1.f - Horses	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.4
3.A.1.g - Mules and Asses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.1.h - Swine	0.9	0.8	0.9	0.9	1.0	1.1	1.0	1.1	1.1	1.1	1.1
3.A.1.j - Other	9.0	9.0	4.5	4.5	4.5	4.5	5.6	5.6	5.6	5.6	5.6
3.A.2 - Manure Management	14.0	14.1	14.6	14.3	13.8	9.1	9.6	9.9	10.5	10.0	10.4
3.A.2.a - Cattle	4.2	4.6	4.5	4.6	3.9	1.0	1.1	1.1	0.9	1.0	1.1
3.A.2.a.i - Dairy Cows	1.6	1.7	1.7	1.6	1.6	0.3	0.3	0.3	0.3	0.3	0.3

Categories	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
3.A.2.a.ii - Other Cattle	2.6	2.9	2.8	2.9	2.3	0.6	0.8	0.8	0.6	0.8	0.8
3.A.2.b - Buffalo	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.2.c - Sheep	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3
3.A.2.d - Goats	1.3	1.3	1.3	1.3	1.3	0.6	0.6	0.6	0.6	0.5	0.5
3.A.2.e - Camels	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.2.f - Horses	0.0	0.0	0.0	0.0	0.04	0.04	0.04	0.04	0.05	0.05	0.04
3.A.2.g - Mules and Asses	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.A.2.h - Swine	2.7	2.5	2.9	2.7	2.9	3.6	3.8	4.0	5.0	3.8	3.7
3.A.2.i - Poultry	5.4	5.3	5.4	5.3	5.3	3.6	3.7	3.9	3.6	4.2	4.7
3.A.2.j - Other	0.1	0.1	0.0	0.0	0.0	0.05	0.06	0.06	0.06	0.06	0.06
3.B - Land	-433.8	-433.1	-432.2	-431.4	-431.3	-431.2	-430.6	-429.4	-430.0	-429.6	-429.6
3.B.1 - Forest land	-433.8	-433.2	-432.2	-431.4	-431.3	-431.2	-430.9	-430.1	-430.1	-430.1	-430.0
3.B.2 - Cropland	0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
3.B.3 - Grassland	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.B.4 - Wetlands	0.0	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.B.5 - Settlements	0.0	0.1	0.0	0.0	0.0	0.0	0.3	0.7	0.1	0.5	0.4
3.B.6 - Other land	61.8	66.4	62.7	62.0	62.6	0.0	0.0	0.0	0.0	0.0	0.0
3.C - Aggregate sources and non-CO2 emissions sources on land	117.8	119.6	102.1	106.3	104.7	41.4	40.9	42.5	39.2	48.4	51.1
3.C.1 - Emissions from biomass burning	8.0	8.0	8.9	6.6	5.9	1.23	2.59	3.09	3.07	1.52	2.14
3.C.1.a - Biomass burning in forest lands	5.2	5.2	6.1	3.8	3.2	0.55	1.16	1.35	1.36	0.67	0.96
3.C.1.b - Biomass burning in croplands	2.8	2.8	2.8	2.8	2.7	0.04	0.09	0.19	0.14	0.07	0.07

Categories	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
3.C.1.c - Biomass burning in grasslands	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.1.d - Biomass burning in all other land	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.2 - Liming	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.3 - Urea application	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.4 - Direct N2O Emissions from managed soils	74.9	76.4	62.2	67.6	67.0	38.3	36.0	36.8	33.4	42.2	37.6
3.C.5 - Indirect N2O Emissions from managed soils	24.6	25.0	20.6	22.0	21.8	1.22	1.69	1.90	2.08	2.10	5.02
3.C.6 - Indirect N2O Emissions from manure mg	10.3	10.1	10.4	10.1	10.0	0.7	0.7	0.7	0.6	2.6	6.3
3.C.7 - Rice cultivations	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.C.8 - Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.D - Other	2.0	2.1	2.2	2.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0
3.D.1 - Harvested Wood Products	2.0	2.1	2.2	2.1	1.9	0.0	0.0	0.0	0.0	0.0	0.0
3.D.2 - Other	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4 - Waste	783.4	748.1	745.4	727.3	738.0	733.6	751.1	819.1	808.9	839.3	832.0
4.A - Solid Waste Disposal	531.5	502.2	505.2	489.2	492.9	502.5	524.7	590.8	591.6	626.0	613.6
4.B - Biological Treatment of Solid Waste	6.1	3.4	7.2	6.7	6.7	-	-	-	-	-	-
4.C - Incineration and Open Burning of Waste	0.6	0.6	0.7	0.7	0.7	0.1	0.1	0.1	0.0	0.0	0.1

Categories	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
4.D - Wastewater Treatment and Discharge	245.2	242.0	232.3	230.6	237.6	230.9	226.3	228.1	217.3	213.2	218.3
TOTAL (excluding LULUCF 3.B and 3.D) (Gg CO₂e)	5019.9	5212.9	5253.5	5295.3	5446.4	5715.8	5770.7	5882.3	5579.7	5762.2	5901.0
TOTAL (net emissions) (Gg CO ₂ e)	4588.1	4781.9	4823.4	4866.0	5017.0	5284.6	5340.1	5452.9	5149.6	5332.6	5471.3

For the GHG emissions estimation, IPCC Software version 2.93 was used. However, the categorization of different land areas is being revised by Mauritius and as such the software was not used to estimate emissions from category 3B and 3D. The estimations were carried out using methodology provided in 2006 IPCC Guidelines and Ms Excel calculation sheets. The same will not appear in the CTF tables.

F. Projections of greenhouse gas emissions and removals

1. Overview

Republic of Mauritius' NDC target is to reduce emissions by 40% from BAU scenario in 2030. The projections for BAU were carried out based on the GHG inventory till 2016. As per the projections, net GHG emissions in 2030 including LULUCF will be around 6,900 Gg of CO₂ equivalent. The BAU projections mentioned in NDC used AR2 GWP figures. The same were updated using AR5 GWP figures and the new BAU projection for net GHG emissions in 2030 including LULUCF is around 7,000 Gg of CO₂ equivalent.

2. Projections

A summary of the sector wise projections is provided in *Table 26*.

Table 26: Summary of the sector wise projections

Category	2016			2022		2025		2030	
	Estimated emissions as per AR2 GWP	Estimated emissions as per AR5 GWP	Estimated emissions	Projected emissions as per AR2 GWP	Projected emissions as per AR5 GWP	Projected emissions as per AR2 GWP	Projected emissions as per AR5 GWP	Projected emissions as per AR2 GWP	Projected emissions as per AR5 GWP
	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}
Energy (non-transport)	3,012	3,016	2,956	3,286	3,533	3,963	3,967	4,317	4,322
Transport	1,169	1,169	1,512	1,206	1,315	1,401	1,439	1,514	1,598
IPPU	311	376	513	402	470	451	528	534	626
Waste	559	746	832	592	795	608	819	636	859
AFOLU	-172	-180	-341	-93	-103	-55	-65	-106	-117

3. Methodology

Republic of Mauritius used the Exponential Smoothing technique to project the overall GHG emissions and reductions till 2030. Exponential smoothing is a time series forecasting method that uses an exponentially weighted average of past observations to predict future values. This method assigns more weight to recent observations and less to older observations, allowing the forecast to adapt to changing trends in the data. The technique takes into consideration any seasonality observed in historical data.

The exponential smoothing technique was applied to individual sectors to project the BAU emissions till 2030. Same was also done for the entire country's GHG emissions both with and without LULUCF. The projections were carried out on the total equivalent carbon dioxide emissions. Mauritius has not done gas wise BAU emission projections.

4. Sensitivity analysis

Sensitivity analysis has not been carried out for the projections.

5. Differences from the projections reported in the NIR

The Republic of Mauritius carried out projection of GHG emissions to estimate BAU scenario till 2030. This projection was done based on GHG inventory till 2016. The 2016 GHG inventory used AR2 GWP values as presented in [Table 27](#).

Table 27: GWP values as per AR2 and AR5

Gas	Second Assessment Report (AR2)	Fifth Assessment Report (AR5)
CO ₂	1	1
CH ₄	21	28
N ₂ O	310	265
HFC-23	11700	12400
HFC-32	650	677
HFC-125	2800	3170
HFC-134a	1300	1300
HFC-143a	3800	4800
HFC-227ea	2900	3350

As seen from table above, the GWP of CH₄ witnessed a 33.3% increase in AR5 as compared to AR2, whereas GWP of N₂O witnessed a 14.5% reduction. These change in GWP have resulted in variation in the projected BAU emissions especially for IPPU, Waste and AFOLU sectors where HFCs, CH₄ and N₂O are the major gages emitted. As such a time series correction of the GHG inventory from 2000 to 2016 was carried out using AR5 GWP values. The recalculated emission figures were used to project the BAU scenario emissions till 2030 using the same Exponential Smoothing technique and maintaining same seasonality values. The old figures and recalculate values are shown in [Table 28](#).

Table 28: Comparison of emission projections as per AR2 GWP and AR5 GWP

Category	2016		2022		2025		2030	
	Estimated emissions as per AR2 GWP	Estimated emissions as per AR5 GWP	Projected emissions as per AR2 GWP	Projected emissions as per AR5 GWP	Projected emissions as per AR2 GWP	Projected emissions as per AR5 GWP	Projected emissions as per AR2 GWP	Projected emissions as per AR5 GWP
	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}	Gg of CO _{2e}
Energy (non-transport)	3,012	3,016	3,286	3,533	3,963	3,967	4,317	4,322
Variation		0.13%		7.52%		0.10%		0.12%
Transport	1,169	1,169	1,206	1,315	1,401	1,439	1,514	1,598
Variation		-0.01%		9.04%		2.71%		5.55%
IPPU	311	376	402	470	451	528	534	626
Variation		20.90%		16.92%		17.07%		17.23%
Waste	559	746	592	795	608	819	636	859
Variation		33.45%		34.29%		34.70%		35.06%
AFOLU	-172	-180	-93	-103	-55	-65	-106	-117
Variation		4.65%		10.75%		18.18%		10.38%
Total (excluding LULUCF)	5,210	5,458	6,220	6,492	6,653	6,942	7,375	7,691
Variation		4.75%		4.37%		4.33%		4.28%
Net emissions (Including LULUCF)	4,881	5,128	5,682	5,943	6,203	6,487	6,689	6,971
Variation		5.06%		4.59%		4.59%		4.21%

G. Other information relevant to tracking progress made in implementing and achieving its NDC under Article 4 of the Paris Agreement

RoM is has a comprehensive online Monitoring Verification and Reporting (MRV) portal to track the implementation of the various policy measures and to estimate the mitigation impacts achieved. The portal is currently undergoing upgradation and will also include information of financial tracking. The online portal will support the country in developing policies backed by actual impact assessment data. It will also help in identifying gap and challenges in implementation, tracking progress against timeline, and assessing the impacts achieved. Other co-benefits of the mitigation projects which support Sustainable Development Goals can also be tracked.

H. Specific flexibility provisions applied

Republic of Mauritius has applied flexibility for the following aspects:

Para 85 of Decision 18/CMA1: Each Party shall provide, to the extent possible, estimates of expected and achieved GHG emission reductions for its actions, policies and measures in the tabular format referred to in paragraph 82 above; those developing country Parties that need flexibility in the light of their capacities with respect to this provision are instead encouraged to report this information.

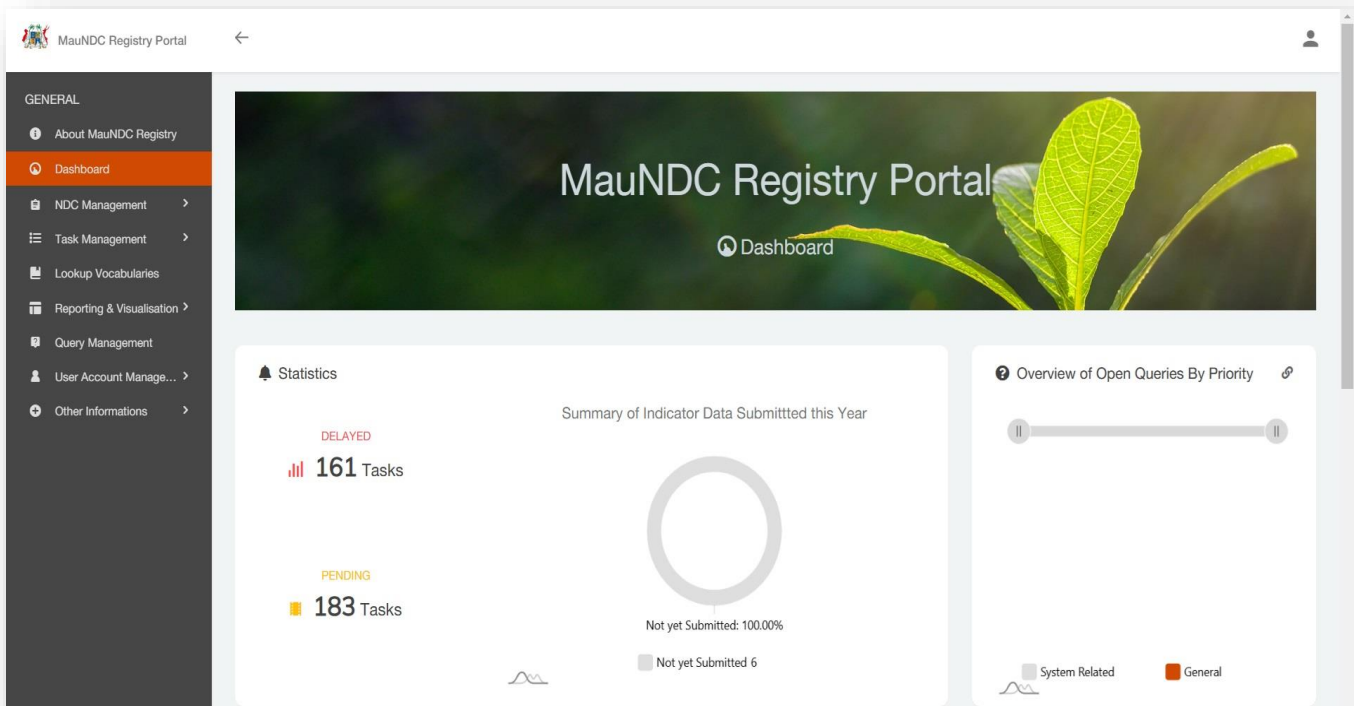
- *Republic of Mauritius has developed a Monitoring Reporting and Verification (MRV) portal and is currently building capacity of the stakeholders to monitor and report implementation status, impact of the mitigation actions including co-benefits using the tool.*

Measuring, reporting and verification (MRV) systems are key elements to be able to carry out reporting on NDC implementation progress, to assess whether set targets are being achieved as well as on monitoring financial, technology development and transfer and capacity building support needed and received. The improved monitoring is also a powerful tool to support national assessment of the effectiveness of climate policies and for policy making.

The Republic of Mauritius (RoM) has already started making progress in enhancing its transparency capacities through a variety of initiatives. It has formalized institutional arrangements for climate governance through its Climate Change Act of 2020, and through various projects actively enhanced capacities for MRV, including through the development of an online MRV system to track NDC mitigation and adaptation actions and support needed and received, the MauNDC Registry.

As part of its efforts to further enhance its transparency capacities RoM has requested support from the Initiative for Climate Action Transparency (ICAT) to amongst other operationalize its online NDC registry (MauNDC Registry), improve the assessment of impacts of climate policies and measures through the application of tools and ICAT methodologies, and also the implications, gaps and challenges in participating in carbon market activities established through the Paris Agreement's Article 6.

A screenshot of the dashboard is shown below. The portal is currently being updated.



Para 95 of Decision 18/CMA1: Projections shall begin from the most recent year in the party's national inventory report and extend at least 15 years beyond the next year ending in zero or five; those developing country Parties that need flexibility in the light of their capacities with respect to this provision have the flexibility to instead extend their projections at least to the end point of their NDC under Article 4 of the Paris Agreement.

- *Republic of Mauritius will consider end of NDC period, 2030 as the endpoint of projections as the policies and measures in place for mitigation actions are all targeted towards 2030.*

Para 102 of Decision 18/CMA1: Those developing country Parties that need flexibility in the light of their capacities with respect to paragraphs 93-101 above can instead report using a less detailed methodology or coverage.

- *To the extent possible, detailed projections of GHG emissions for each sector of the economy for Republic of Mauritius is provided in CO₂ equivalent emissions terms till 2030. However, projections for individual greenhouse gases will be incorporated from BTR3 onwards.*
- *The IPCC 2019 Refinement of the 2006 IPCC Guidelines provides updated methodology and emission factors for estimating GHG emissions from the solid waste and wastewater subsectors within the waste sector. Republic of Mauritius seeks flexibility on the use of the new methodology and emissions factor. Mauritius intends to conduct measurement-based study to check applicability of the revised methodology and emission factors for the waste sector in the country's context. The updated methodology and emissions factors will be used for BTR3.*

I. Information on areas of improvement in relation to reporting

Republic of Mauritius is currently in the process of improving the national GHG inventory by developing tier 3 grid emission factor for electricity generation, tier 3 emission factor for industries, tier 2 methodology for activity data collection in the transport sector and conducting surveys for estimating carbon sink available in privately held forests under the GEF-CBIT project.

In addition to the above activities, there is a need for the country to estimate emission factors for the solid waste and wastewater sector, in line with the methodology in 2019 Refinement of the 2006 IPCC GHG inventory guidelines.

The Department of Climate Change, under the MoESWMCC can have a dedicated cell for collection, monitoring and maintaining data related to GHG inventory and MRV of the mitigation actions.





**Information related to climate
change impacts and adaptation
under Article 7 of the Paris
Agreement**



Chapter 3: Climate change impacts and adaptation

Overview (include flexibility)

In Mauritius, the key sectors of priority for adaptation measures include water, infrastructure, agriculture, marine ecosystems, tourism, and human health. From a legal standpoint, the Climate Change Act was formulated and came into force in 2021 which established the different institutions along with their responsibilities. Mauritius submitted its Nationally Determined Contribution (NDCs) in 2015 and updated them in 2021 which more ambitious targets. Along with the updated NDCs, Mauritius has also submitted the Adaptation Communication in 2021 describing the priority sectors for intervention coupled with ongoing and proposed adaptation plans. In 2016, Mauritius submitted the Third National Communication which highlighted the climatic conditions and a comprehensive national greenhouse gas (GHG) inventory. The Biennial Update Report was submitted in 2021 as a follow up to the Third National Communication and thus included updated GHG inventory and key activities from both mitigation and adaptation perspectives. Currently, Mauritius is developing National Adaptation Plan.

A. National circumstances and institutional arrangements

Mauritius is part of the Small Island Developing States (SIDS) and is majorly impacted by climate change. In recent years, it faced numerous climate-related challenges and disasters cyclones, storm and tidal surges, torrential rains, floods and flash floods, landslides, tsunamis, heat stress. Mauritius recently suffered a flooding event in Port Louis in January 2024 after the passing of cyclone Belal. Similarly, in April 2024, experienced torrential rainfall and flooding. These disasters heavily impacted the country by causing widespread destruction of residential buildings and infrastructure. In financial terms, Mauritius faced economic losses of up to USD 325,000 due to the closure of banks, and agricultural losses of up to USD 7 million. It is projected that in the future the climate-related adversities and the negative impacts associated with them will increase. These would include extreme temperatures, erratic rainfalls, and sea level rise. It is also estimated Mauritius will be a water scarce region by the year 2030. Projections also indicate distortions in climatic conditions like reduced precipitation by 13 per cent by 2050. They also highlight that the island is expected to experience a major increase in hot days and nights, there will be a greater number of days exceeding the temperature of 35 degrees Celsius between November to May by 2050, which will surpass the observed values of 1986 to 2005. The World Risk Report of 2023 ranked Mauritius as 106th out of 193 countries with the highest disaster risk. Geographically as well, Mauritius is located in an active cyclone basin making it more exposed and vulnerable to hazards as compared to other regions. These would have a significant impact on the country and its people thus it is imperative for Mauritius to strengthen resilience and decrease vulnerability by developing and adopting comprehensive adaptation strategies and measures.

Mauritius has various institutional frameworks and arrangements that work in the development and implementation of climate adaptation and overall sustainable strategies. The Ministry of Environment, Solid Waste Management, and Climate Change (MoESWMCC) is a key nodal institution which is responsible for responding to climate change and related issues. The key responsibilities of MoESWMCC entails implementing the provisions of the Climate Change Act of 2020 that also includes mitigation and adaptation strategies along with other ancillary activities such as research, trainings, public awareness. Additionally, since climate-induced risks impact various sectors, other ministries are also involved in taking key responsibilities pertaining to specific sectors or issues. These have been highlighted in the *Table 29*.

Table 29: Institutional Arrangements and Responsibilities in Mauritius for Climate Adaptation⁵¹

Institution	Responsibility
Ministry of Environment, Solid Waste Management and Climate Change <ul style="list-style-type: none"> • Department of Climate Change • Department of Environment • Solid Waste Management Division 	<ul style="list-style-type: none"> • Climate Change Governance • National Climate Change Adaptation Strategy and Action Plan • National Communications • Capacity Building, Awareness Raising • Environmental Assessment and monitoring • Management of Environmentally Sensitive Areas • Integrated coastal zone management • Sustainable Development • Monitoring of coastal water quality • Beaches and shoreline development
Ministry of Housing and Lands	<ul style="list-style-type: none"> • National Land Use Planning • National Development Strategy • Cartography • Housing
Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries <ul style="list-style-type: none"> • Forestry Services • National Parks and Conservation • Food and Agricultural Research and Extension Institute • Mauritius Cane Industry Authority • Irrigation Authority 	<ul style="list-style-type: none"> • Fisheries and marine ecosystem management and protection • Restoration of coral reefs • Management of Marine Parks • Monitoring of fish stocks • Scientific research on oceanographic science • Bathymetric mapping • Policy and strategy formulation on food security • Forests and national parks management • Vulnerability assessment for small scale farmers • Research for non-sugar agriculture and livestock • Strategic Plan for Food crop and Livestock Sectors • National Biodiversity Strategy and Action Plan • Wetland management and protection • Climate research on sugarcane • Irrigation plans and schemes
Ministry of National Infrastructure <ul style="list-style-type: none"> • Architect Department • Engineering Department • Land Drainage Authority • National Development Unit • Road Development Authority 	<ul style="list-style-type: none"> • Green buildings • Roads network • Drainage programme • Landslide management
Ministry of Tourism <ul style="list-style-type: none"> • Mauritius Tourism Authority 	<ul style="list-style-type: none"> • Sustainable development of the tourism industry • Regulation of tourist activities and accommodation and pleasure crafts
Ministry of Energy and Public Utilities <ul style="list-style-type: none"> • Water Resources Unit • Central Water Authority 	<ul style="list-style-type: none"> • Mobilization and Development of Water Resources • Treatment and Distribution of Potable Water • Collection, Treatment and Disposal of Wastewater • Regulate the utility services, namely electricity, water and wastewater

⁵¹ Ministry of Finance, The Republic of Mauritius

Institution	Responsibility
<ul style="list-style-type: none"> Wastewater Management Authority 	
Ministry of Local Government <ul style="list-style-type: none"> Local Authorities Mauritius Meteorological Services National Disaster Risk Reduction and Management Centre 	<ul style="list-style-type: none"> Implementation of land use plans and disaster management Local infrastructural development Disaster Risk Reduction & Management Provision of timely and accurate weather reports, climate services and warnings for hydro-meteorological hazards and tsunamis. Coordinating body of the Ministry for the planning, organizing, coordinating and monitoring of disaster risk reduction and management activities at all levels.
Ministry of Health and wellness	<ul style="list-style-type: none"> Human diseases Climate-related health
Ministry of Tertiary Education, Science and Research <ul style="list-style-type: none"> University of Mauritius Mauritius Institute of Education Rajiv Gandhi Science Centre 	<ul style="list-style-type: none"> Applied research on agriculture and marine science Mainstreaming of climate education Scientific outreach programme
Ministry of Gender Equality and Family Welfare	<ul style="list-style-type: none"> Mainstreaming gender in climate change
Ministry of Social Integration, Social Security and National Solidarity	<ul style="list-style-type: none"> Promotion and enhancement of social protection and national solidarity Empowerment of persons with disabilities, elderly persons and local communities to enhance their quality of life.
Ministry of Youth and Sports	<ul style="list-style-type: none"> Awareness raising and implementation of activities on climate related topics
Ministry of Foreign Affairs, Regional Integration and International Trade <ul style="list-style-type: none"> Foreign Affairs Division International Trade Division 	<ul style="list-style-type: none"> Promote and safeguard national interest of Mauritius Sustainable development through regional integration Support sustainable economic growth
Ministry of Finance <ul style="list-style-type: none"> Resource Mobilisation Unit Macro-economic Unit Statistics Mauritius 	<ul style="list-style-type: none"> Develop macro fiscal framework and formulate fiscal policy National Designated Authority Climate finance strategy Monitoring of national development processes Digest of environment statistics

B. Impacts, risks, and vulnerabilities

The impacts of climate variability and extreme weather events are becoming a concern to the Republic of Mauritius, including Rodrigues, St Brandon and Agalega. The climate of the Southwest Indian Ocean (SWIO) small island states is influenced by large ocean-atmosphere interactions such as trade winds. They are often affected by tropical cyclones and other extreme weather. All the islands in the Republic of Mauritius (RoM) are threatened by sea-level rise as well⁵²

⁵² Mauritius Meteorological Services

i. Temperature

Mauritius’ maximum and minimum temperatures exhibit a warming trend. The last decade has seen the highest temperatures, as indicated by the mean maximum temperature anomaly trend from 1950 to 2022 in *Figure 49* (Temperature Trend) (source: Mauritius Meteorological Services). The average temperature across all monitoring stations is increasing steadily at a rate of 0.15

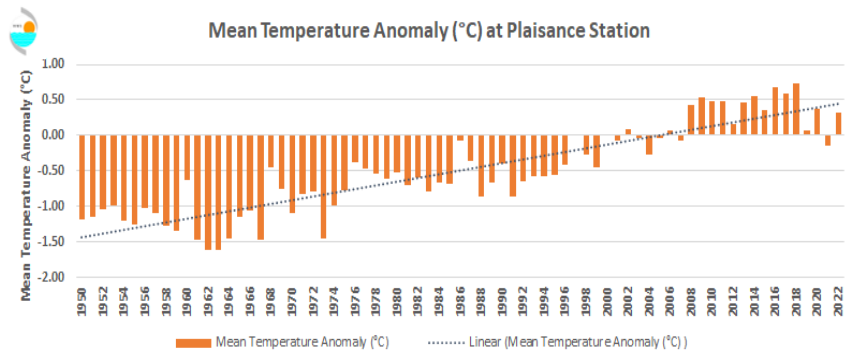


Figure 49: Trend chart for Mean Temperature Anomaly

°C per decade, marking a significant rise of 0.74-1.2 °C compared to the long-term mean of 1961-90. Notably, certain urban stations have experienced even more pronounced increases in temperature. This warming trend is not exclusive to the mainland; similar patterns have been observed in Mauritius’ outer islands, such as Rodrigues, St Brandon, and Agalega. In Agalega, temperatures are escalating at a rate of 0.11 °C per decade, resulting in an average increase of 0.62 °C over the past decade compared to the 1961-90 mean. Meanwhile, temperatures in St Brandon and Rodrigues have risen by 0.5 -1.0 °C⁵³. Climate Modelling up to 2100 for the Southwest Indian Ocean region, was conducted by IPCC ensemble, under the Building Resilience in Indian Ocean (BRIO) project, had shown the increasing trend of warming. The most optimistic to the worst scenarios, increasing up to 4.7 °C by 2100 with significant uncertainty as per ensemble output. Even by the worst scenario, it is estimated that the occurrence of maximum temperature will be more than anticipated.

ii. Precipitation

Warming of the atmosphere has also impacted the hydrologic cycle over the southwest Indian Ocean. Long-term time series of rainfall amount over the past century show a decreasing trend in annual rainfall over Mauritius. In fact, the average rate of decrease per decade is around 57 mm⁵⁴. *Figure 50* (Rainfall Trend) shows the mean annual rainfall over Mauritius and the 5-year moving average for the period 1905-2020 (source: Mauritius Meteorological Services).

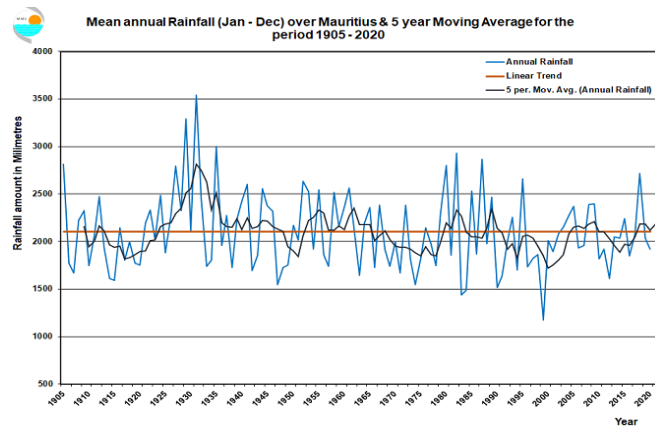


Figure 50 Annual projection on precipitation

iii. Drought

Rainfall variability has increased the frequency of dry years since the 1990s, with notable instances affecting the country in 1999, 2009, and 2011 as per *Figure* (Rainfall Trend). A lengthening of the intermediate dry season, the transition period between winter and summer, has been observed. There has been a shift in the start of the summer rains. This shift in the onset of the rains is highly significant as it translates into much pressure on the water sector to meet increasing demands of the agricultural, tourism, industrial and domestic sectors. The number of consecutive dry days is increasing while the number of rainy days is decreasing⁵⁵.

⁵³ Mauritius Meteorological Services

⁵⁴ Mauritius Meteorological Services

⁵⁵ Mauritius Meteorological Services

iv. Sea Level Rise

The observed sea level in Mauritius (based on the analysis of tide data from Port Louis tide gauge) shows a mean rise of 4.7 mm/yr for the period 1987 to 2020 (Mauritius Meteorological Services, 2020). Compared to the decade 1991-2000 the mean sea level has increased by 11.9 cm during the last decade 2011-2020. This is particularly of concern to the RoM, where islands like St Brandon and Agalega, which are 1.5 km² and 70km² in area respectively, which are about only 2 m above mean sea level at their highest point⁵⁶.

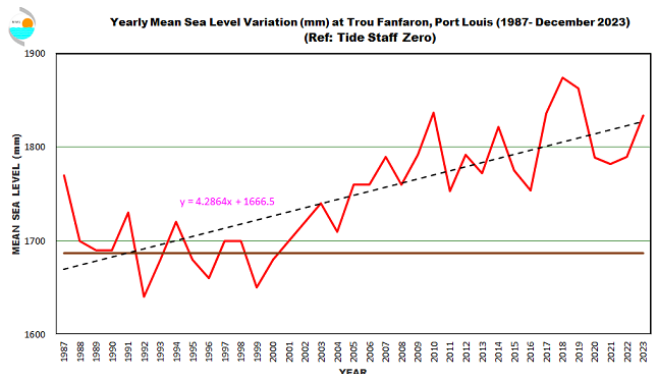


Figure 51: Trend chart for Mean Sea Level Rise

v. Cyclones

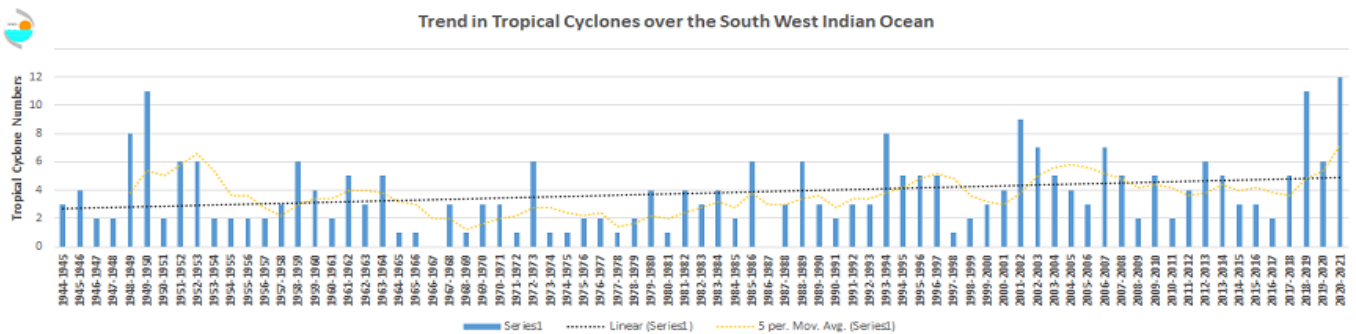


Figure 52: Trend chart for Tropical Cyclone Activity

Analysis of data from Mauritius Meteorological Services does not show any increase in the number of storms in the SWIO tropical cyclone basin. However, a plot of the number of storm formations over the last 32 years (1975- 2008) clearly shows an increasing trend in the number of tropical cyclone strength and above that is cyclonic wind above 165 km/hr. Furthermore, since the last decade observations indicate rapid or even explosive intensification of tropical storms/cyclones⁵⁷.

vi. Floods and Flash Floods

Even though the number of rainy days is decreasing, heavy/torrential rain events leading to numerous flash floods and temporary interruption of certain socio-economic activities during the summer months of February and March had increased. The frequency of short duration and high intensity rain had increased since the last two decades⁵⁸.

vii. Landslide

Landslides also are a probable hazard mainly caused by erratic rainfall patterns and many areas have been identified as high-risk areas for the same. This along with other factors including reduction vegetation cover and dangerous constructions on sloppy areas increases the risk further.

The Landslide Emergency Scheme is a framework developed to manage and mitigate risks associated with landslides, which are significant hazard in the country due to its topography, heavy rainfall and developed

⁵⁶ Source: Mauritius Meteorological Services

⁵⁷ Source: Mauritius Meteorological Services

⁵⁸ Source: Mauritius Meteorological Services

patterns. The scheme is a part of the National Disaster Scheme 2015 and aims to address landslide risks through prevention, preparedness, response, and recovery measures. emphasises a pragmatic approach to managing landslide risks in Mauritius. It integrates scientific data, governance, community involvement, and infrastructural measures to enhance resilience against landslides and protect lives and livelihoods.

Mauritius is one of the most successful countries in Africa with second highest GDP in the region and is the largest exclusive economic zone. It is well connected globally and relies on sectors like tourism and hospitality along with other key sectors. Yet, a large number of the population relies on natural resources present in the country through activities such as subsistence agriculture, fishery, and other small tourism related enterprises. As a small island, Mauritius remains highly vulnerable to the adverse impacts of climate change posing a threat to its sustainable development initiatives and achievement of national development goals and objectives. An assessment was undertaken to understand the major impacts of climate and risks across the vital sectors in Mauritius, which is highlighted in *Table 30*.

Table 30: Overview of key climate impacts and risk across six sectors in Mauritius⁵⁹

Sector	Climate Impacts	Risks to Sustainable Development
Water Resources	<ul style="list-style-type: none"> ▪ Decrease of annual rainfall ▪ Increase in extreme precipitation ▪ Increased run-off and evapotranspiration 	<ul style="list-style-type: none"> ▪ Water scarcity: Utilizable water resource to decrease by 13% by 2050. Mauritius to become water scarce region by 2030⁶⁰
Agriculture	<ul style="list-style-type: none"> ▪ Rising temperatures → shifts in agricultural zones and lower crop productivity and increases in pests and crop disease. ▪ Increased rainfall variability → impact on crop development (drought and flooding damage) 	<ul style="list-style-type: none"> ▪ Decreased food security, in particular for poor household relying on subsistence farming and with low capacity for investments. ▪ Decreased yield of key cash crops – e.g. projected sugar cane yield reduction of up to 48%
Fisheries/blue economy	<ul style="list-style-type: none"> ▪ Increased sea temperature → coral bleaching, algal bloom and changed biodiversity. ▪ Increased run-off and sedimentation in lagoons ▪ Increased cyclonic activity 	<ul style="list-style-type: none"> ▪ Reduced food security through: <ul style="list-style-type: none"> ▪ -Lower total catch size⁶¹ ▪ - Increased toxicity of fish catch (algae related) ▪ - Cyclones preventing fishermen going to sea and destroying boats and equipment
Coastal areas	<ul style="list-style-type: none"> ▪ Sea level rise and increased cyclonic activity →temporary coastal flooding and accelerated beach erosion. 	<ul style="list-style-type: none"> ▪ Reduced income potential from tourism (up to US\$ 50 million/year by 2050)⁶² ▪ Loss of coastal infrastructure
Health	<ul style="list-style-type: none"> ▪ Extreme weather events ▪ Heat ▪ Flooding and drought 	<ul style="list-style-type: none"> ▪ Direct health impacts of extreme weather events ▪ Increases in water-borne and vector-borne diseases

⁵⁹ National Climate Change Adaptation Policy Framework (2021)

⁶⁰ In Mauritius, approximately 50% of all potable water abstraction is from coastal aquifers, making the issue of saltwater intrusion even more pronounced

⁶¹ During the 21st century, under high emission scenario, the habitat of tropical tuna in the Indian Ocean will gradually shift outside the equatorial regions, to the south (10°S – 30°S), compared to now (10°N - 10°S), thus decreasing the access to tuna in the Mauritius Exclusive Economic Zone.

⁶² The coastal zone of the Republic of Mauritius is a valuable national asset with an estimated total annual economic value of USD 33 million (in 2010). According to the third national communication, a projected increase in the mean annual temperature increase, coupled with beach erosion, could lead to a reduction in tourist arrivals accounting for a revenue loss of at least USD 50 million/year by 2050.

Sector	Climate Impacts	Risks to Sustainable Development
		<ul style="list-style-type: none"> ▪ Nutritional impacts of food and water scarcity
Infrastructure	<ul style="list-style-type: none"> ▪ Extreme weather events ▪ Flooding ▪ Sea level rise 	<ul style="list-style-type: none"> ▪ Loss of critical infrastructure, including housing, roads and coastal⁶³.

C. Adaptation priorities for Mauritius

Mauritius has been active in setting up objectives plans for key sectors to mainstream adaptive measures in national strategies. Some of these are mentioned below.

Support for Adaptation Planning

Mauritius is in the process of developing a comprehensive and cross-cutting National Adaptation Plan. Mauritius intends to develop complete and comprehensive vulnerability assessments across the identified key sectors. Various initiatives and activities are currently ongoing or in the late stages of preparation, which will be aligned to the specified needs of a broader NAP. A comprehensive assessment would enable the development of NAP and sectoral adaptation master plans to help mainstream adaptation into climate strategies.

Coordination of Adaptation Initiatives

A lot of the projects and initiatives that are ongoing and/or completed ones have been funded by different donors. A priority for Mauritius is to cohesively plan the supporting and often complementary activities under the common umbrella of the national adaptation planning process. Clear coordination across donors and sectors and inclusion into the national process to support the development of NAP is also a priority. Strengthening institutional governance and oversight of committees like the National Climate Change Committee also remains a priority, being the entry point for coordination of adaptation measures. Creation of a common reference point such as the NAP, improved understanding on mainstreaming climate change into sectoral plans amongst line ministries are also in focus. Through the establishment of MauRegistry, an online platform to track NDC action plan, the development of indicators on adaptation and enhanced understanding and measurement of impact is also a priority for effective progress and impact measurement by data custodians.

D. Adaptation strategies, policies, plans, goals and actions to integrate adaptation into national policies and strategies

The adaptation priorities of Mauritius are based on the climate projections and the current climate situation. Specific policy measures have been developed for the key priority sectors and are mentioned below.

Water

Water is a key sector in Mauritius and several adaptive measures have been identified for it. This primarily entails improving forecasting while at the same time improving the quality of water resources along with better management and protection practices. It also involves the upgradation or building of new treatment facilities and reservoirs that facilitate the reduction of water losses in the distribution systems. Rainwater harvesting can be encouraged and improved through the procurement and installation of rainwater harvesting systems coupled with improvements in the policy, legal, and regulatory landscapes in Mauritius and Rodrigues. Setting up of desalination plants especially in Rodrigues is also one of the key identified measures.

⁶³ The Port Louis harbor, e.g., has been identified as highly vulnerable and is likely to be significantly impacted by storm surges and rising sea levels. This will have severe impact on maritime connectivity and shipping.

Infrastructure

Since infrastructure in Mauritius remains highly vulnerable to natural calamities and climate-induced hazards, the overall objective is to understand the disaster risks by enhancing knowledge base related to climate-risks to local communities. Key adaptive measures include improving disaster preparedness and response mechanism, developing and implementing efficient and robust disaster risk strategies, enhancing governance to build and strengthen resilience. It also implies increasing investments in resilience to reduce vulnerabilities to hazards and disaster risks.

Agriculture

Building resilience in agriculture would have major and positive implications on the overall economy of Mauritius. Some of the recommended measures include devising strategies and policies to facilitate the uptake of Integrated Pest and Disease Management (IPDM) practices and examining regulatory frameworks that can encourage the upscale of IPDM technologies as well monitor or regulate the usage and disposal of pesticides. Establishing resilient production systems by developing and adopting climate-smart agriculture and adopting better and efficient irrigation techniques would further climate-proof the sector. It is also critical to build knowledge on climate change risks and their subsequent impact on communities particularly for agriculture sector.

Coastal Ecosystem

Protecting the coastal ecosystem involves generating and enhancing awareness regarding the risks associated with climate change on the coastal zones and ecosystems. It also requires development of storm surge models that can assess the vulnerabilities like coastal inundation and accordingly prepare relevant hazard maps. The proposed measures also include development and implementation of an integrated approach along with other sectors like biodiversity and forestry while also strengthening the regulatory framework of protecting beaches, dunes, and vegetation.

Marine and Terrestrial Biodiversity Resilience

The adaptive measures include improving the management of marine and terrestrial protected areas as well as the expansion of protected area network. This would entail rehabilitation of mangroves, wetlands, coral reefs, seagrass, as well as increasing the tree coverage area. For Rodrigues, it entails developing sustainable landscape management along with nature-based solutions and ecosystem-based adaptation.

Human Health

The health sector requires the mainstreaming of climate adaptive practices and measures especially with the growing population. It is essential to generate awareness amongst communities regarding the climate-induced hazards and risks on human health and the ways to combat them. Thus, building an effective communication and awareness strategy is critical. Measures to also enhance surveillance of climate-related diseases are also suggested. It is imperative to devise and implement a decentralized alert and rapid response mechanism.

Along with the measures developed for the key sectors, there are several initiatives that the government has been undertaking at the national and local levels, which are enlisted below.

- Mauritius Renewable Energy Agency Act of 2015.
- The National Disaster Risk Reduction and Management Act of 2016.
- Land Drainage Authority Act of 2017.
- Local Government (Amendment) Act, 2018.
- Mauritius Meteorological Act, 2019.

E. Progress of implementation of adaptation

The Republic of Mauritius has been actively undertaking and implementing projects and initiatives on adaptation to build resilience against climate-induced impacts and hazards. It has been receiving financial support and assistance from international development agencies (IDAs) mostly in the form of bilateral grants to implement adaptive measures. Funding is received from different donors like Green Climate Fund (GCF), Global Environment Facility (GEF), Adaptation Fund (AF), Agence Francaise de Developpement (AFD), and Global Climate Change Alliance (GCCA+).

Financial support has also been provided by regional blocs like the European Union as well as through the Danish government through the UNEP CCC. Most of the projects pertaining to adaptation and building resilience are in their implementation stages. The initiatives are cross-cutting in nature and take into consideration the key sectors of Mauritius including agriculture, water, infrastructure, coral restoration, tourism, and health. Findings from various initiatives like building resilient health systems, strengthening science-based decision making, climate vulnerability & adaptation study, strengthening meteorological & hydrological climate services, study of coastal risks, restoring marine ecosystem services, will form the basis of developing the NAP.

F. Monitoring and evaluation of adaptation actions and processes

The Inter-Ministerial Council on Climate Change was established under the Climate Change Act of 2020. The council includes the Prime Minister as the Chairperson along with the respective Ministries that are responsible for specific sectors and issues such as agriculture, commerce, marine resources, health, infrastructure, among others. The role of the Council is to develop, set objectives at the national level along with specific goals and targets with the aim to build and strengthen resilience in Mauritius.

The MauRegistry is an effective tracking tool. Developed as an online platform to track NDC action plan, it will be used for monitoring and evaluation of adaptation actions and effectiveness of processes that have a bearing on adaptation. This would also support improved understanding of best practices and measurement of impact for effective progress and sustainable resilient solutions.

The role of the Council is also to review progress and monitor different departments of the government on climate change objectives and programmes while ensuring coordination between different levels of government. The secretary of the Council is the Director of the Department of Climate Change and the issues that require higher levels of deliberations and interventions are brought to the attention of the Council.

G. Information related to averting, minimizing and addressing loss and damage associated with climate change impacts

A study on “assessing and managing loss and damage in two cities” for the duration of eighteen months from 2024 to 2025 has been approved with the budget of USD 75,000. The aim of the study would be to consider the existing climate risks by analysing the climate risk assessments to understand the loss and damage aspects. The implementation of loss and damage plans related to floodings, landslides, heatwaves, and droughts would be prepared for two locations, where one of which will be Port Louis. The outcome of this would be closely monitored and the developed NAP would ensure that it is aligned with any specific loss and damage plans developed.

H. Cooperation, good practices, experience and lessons learned

There has been a lot of learning through the experiences of developing and implementing projects and initiatives on climate adaptation. Some of the key challenges faced include the issues pertaining to procurement especially the lack of data and the unavailability of experts and expertise in relevant areas. For regional projects, issues pertaining to knowledge sharing and exchanges posed by other participating countries led to restricted availability of knowledge. Some of the lessons learned and suggestions made include ensuring synergy

amongst stakeholder for smoother operation and implementation of projects. Enhancing capacity in the ministries, beneficiaries, and other stakeholders is crucial from the beginning of the project stage. For regional projects, suggestions have been made to tackle the issue of knowledge sharing up front instead of addressing them at the implementation stage as well as taking into account the local and specific contexts for each country in the region at the proposal development stage itself. Collaborative and participatory approaches including contributions from government institutions, NGOs, private sector, amongst others, have proven to be beneficial to ensure better implementation. Benefits have also been observed from including activities that aim at enhancing knowledge and education and raising awareness in the public.

Donor Funded projects

Republic of Mauritius has received funding from various donor agencies to implementation adaptation related projects and details are provided in Chapter 4.



04

Information on financial, technology development and transfer and capacity-building support needed and received under Articles 9–11 of the Paris Agreement



Chapter 4: Financial, technology development and transfer and capacity-building support

Overview

This chapter provides information on the financial support received by Republic of Mauritius for undertaking various adaptation and mitigation activities and capacity building support received from various bilateral and multilateral donor agencies. It also provides information on the support required by Mauritius.

A. National circumstances and institutional arrangements

Project Steering Committee under the chair of the Permanent Secretary of the Ministry of Environment, Solid Waste Management and Climate Change (Environment and Sustainable Development Division) has been set up to provide guidance in terms of the process leading to political and stakeholder acceptance of BTR outcomes and to provide overall quality assurance for the final deliverables of the project, namely the BTR and NIR reports.

A Project Technical Committee under the chair of the Director of Climate Change was set up to provide leadership to the BTR process and to deal principally with all technical aspects of the BTR/NIR and to support the work of the different Technical Working Groups (TWGs).

Five TWGs have been established to oversee the implementation of climate change activities in the various key sector. The scope of the fifth TWG is to identify constraints and gaps, and related financial, technical and capacity needs / technology transfer & development/ capacity building needs of Mauritius. The details of the fifth TWG are given in *Table 31*.

Table 31: Table showing governance structure for assessing the financial, technology development and transfer and capacity building support needed and received.

Financial, Technology Development and Transfer and Capacity Building Support needed and received
<ul style="list-style-type: none"> • Ministry of Finance - Co –chair • Academia (UdM): Co –chair
<ul style="list-style-type: none"> ▪ MoESWMCC (DCC) ▪ Mauritius Research & Innovation Council
<p><u>Chairs of sub-TWGs under GHGI/NDC Tracking</u></p> <ul style="list-style-type: none"> ▪ Central Electricity Board (Energy: non-Transport) ▪ Ministry of Land Transport (Energy: Transport) ▪ MESWMCC (National Ozone Unit) (Industrial Processes & Product Use) ▪ Solid Waste Management Division (Solid & Liquid Wastes) ▪ Wastewater Management Authority (Solid & Liquid Wastes) ▪ Forestry Service (Agriculture, Forestry and Other Land Use) ▪ Food and Agricultural Research and Extension Institute (Agriculture, Forestry and Other Land Use)
<p><u>Chairs of sub-TWGs of VA&A</u></p> <ul style="list-style-type: none"> ▪ Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries (Agricultural Services) (Agriculture) ▪ Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries (Fisheries and Marine Ecosystem and Biodiversity) ▪ National Parks and Conservation Services (Terrestrial Ecosystem and Biodiversity) ▪ Ministry of National Infrastructure (Engineer/Architect) (Infrastructure) ▪ Ministry of Health and Wellness (Human Health) ▪ Department for Continental Shelf, Maritime Zones Administration & Exploration (MSP) (Coastal Zone)

- **MESWMCC (ICZM) Coastal Zone)**
- **Water Resources Unit (Water)**
- **Ministry of Tourism (Tourism)**

Republic of Mauritius is currently in the process of developing Green Taxonomy to support private and public sector investment for green projects while ensuring that the risks of “green washing” are mitigated. A national green taxonomy is a key instrument for financial institutions in Mauritius to scale up the financing of green projects in Mauritius and Africa, in line with countries’ NDCs. The taxonomy will support more informed credit decisions by banks and promote investment opportunities that contribute to attaining our national environmental objectives, while minimizing reputational risks associated with ‘greenwashing’ practices. The green taxonomy will encompass climate change adaptation, mitigation, natural resource conservation, biodiversity, pollution prevention and control and protection of ecosystems, which are considered critical in defining activities that meet the environmental and climate targets. The framework will enhance transparency, attract increased public and private investments for green projects and facilitate the monitoring of these investments.

While the Climate Change Act (2020) contains the duties and obligations of institutions, there is a need for a common definition of ‘green’ to ensure that all stakeholders share the same understanding. The taxonomy will further support financial institutions in providing accurate sustainability disclosures on their environmental impacts, as required by the Bank’s Guideline on Climate-related and Environmental Financial Risk Management, which has become effective as from January 2024 and other global sustainability standards such as those prescribed by the International Sustainability Standards Board, Global Reporting Initiative, EU sustainability Reporting Standards, amongst others. For the non-banking financial institutions, a national green taxonomy is important for clarity in terms of (i) identifying environmentally sustainable projects; (ii) attracting investment, (iii) improving integrity and reducing risks of greenwashing; (iv) reducing associated transaction costs of sustainable financing. The non-banking financial institutions who would be using the national green taxonomy are listed and non-listed companies, investment advisors, investments dealers, collective investment scheme managers and pension scheme administrators.

Sections 15 – 18 of the Climate Change Act (2020) make provisions for the Department of Climate Change (DCC) of the Ministry of Environment, Solid Waste Management and Climate Change (MoESWMCC) to establish reporting mechanisms for public and private institutions, including statutory bodies; establish and maintain a climate change database system to enable the assessment, monitoring, reporting and verification of climate actions; and conduct an annual national inventory of greenhouse gas emission by sources and removal by sinks. Republic of Mauritius is currently in the process of developing guidelines for climate reporting as per the Climate Change Act (2020).

B. Underlying assumptions, definitions and methodologies

Republic of Mauritius is currently not tagging and recording information separately on finance received and technology transfer. As such, all donor support received is covered under financial support received under Article 9 of Paris Agreement.

C. Information on financial support needed and received under Article 9 of the Paris Agreement

1. Overview

Republic of Mauritius has received bilateral and multilateral financial support for activities related to adaptation and mitigation. From 2017 onwards, Mauritius has received 118.05 million USD both as grant and loan from various donor agencies. Of this, USD 46.3 million was for Adaptation activities and USD 71.7 million for mitigation activities under Article 9 of Paris Agreement.

In its Second NDC submitted to UNFCCC, Mauritius mentioned that total financial needs to implement the NDC targets are estimated at USD 6.5 billion. The total needs for implementing the mitigation and adaptation actions identified in the NDC are estimated respectively at USD 2 billion and USD 4.5 billion. The share for the unconditional and conditional contributions for the USD 6.5 billion is as follows:

- a. Unconditional amount of USD 2.3 billion (from government and private sector) representing 35%; and
- b. Conditional amount of USD 4.2 billion (from international sources and donor agencies) representing 65%.

Based on the information submitted to UNFCCC in the NDC, Republic of Mauritius requires USD 200 million per year for mitigation activities and USD 500 million per year for adaptation activities. Based on source of funding, USD 470 million is required per annum from bilateral and multilateral donor agencies. Considering the period from 2022 till 2024 (3 years considered as NDC was submitted in October 2021), financial support of USD 1.41 billion was required by Republic of Mauritius to implement adaptation and mitigation activities to meet NDC target. Of this, only USD 0.118 billion, representing 8.4% of the requirement has been mobilized till December 2024.

2. Contribution by type of support

Republic of Mauritius received financial support of USD 118.05 million from 2017 till Dec 2024 for climate related projects. Of this, 11% representing USD 12.44 million were loan and remaining 89% representing USD 105.6 million were grant. Loans were provided by Abu Dhabi Fund and African development Bank for renewable energy integration projects.

3. Contribution by channels

The donor agency wise support received by Mauritius from 2017 onwards is shown in [Table 32](#).

Table 32: Agency wise funding support received by Mauritius from 2017 onwards

Agency	Approved Amount (USD mn)
Green Climate Fund	38.51
Global Environment Facility	37.35
UNEP CCC - Danish Government	0.13
Adaptation fund	4.44
Agence Française de Développement	9.20
UNDP Climate Promise	0.27
European Union	13.15
Global Climate Change Alliance (GCCA+) and European Union	2.26
United Kingdom	0.25
Southern African Development Community (SADC)	0.05
Abu Dhabi Fund	10.00 (Loan)
African Development Bank	2.44 (Loan)
Total	118.05

The details of funding received for various mitigation activities along with associated donor agency is provided in [Table 33](#).

Table 33: Details of the financial support received from donor agencies for mitigation projects

Funding Agency	Project Title/Objective	Date Approved	Approved Amount (USD)
Green Climate Fund (GCF)	Accelerating the Transformational Shift to a low carbon Economy in the Republic of Mauritius (through UNDP)	Project approved on December 2016	28,210,000
	Readiness and Preparatory Support Programme - Strengthening of the institutional capacities of the NDA	Project approved on 15 February 2019	30,000
	Nationally Appropriate Mitigation Actions for Low Carbon Island Development Strategy (NAMA)	Project approved on 11 July 2016	1,452,000
	Strengthening the national greenhouse gas inventory of the Republic of Mauritius to improve climate reporting and transparency (CBIT)	Project approved on 03 June 2021	1,269,850
	Realising energy savings and climate benefits of implementing mandatory energy auditing in coordination with HCFC phase-out and HFC avoidance	Project concept approved on 01 May 2017	4,532,164
	Implementing Sustainable Low and non-Chemical Development in SIDS (ISLANDS)	Project Document approved on December 2021	4,500,000
	Promoting Low-carbon Electric Public Bus Transport in Mauritius	Project approved on 06 January 2022	5,600,607
	Accelerating the transition to a net-zero, nature-positive economy in Mauritius [Accelerating the greening of the manufacturing sector for a sustainable Mauritius]	Project concept note approved on 23 June 2023	3,286,913
	Mainstreaming Nature-based Solutions in land-use systems for productive and resilient ecosystems [Scaling up of Agro-Forestry System]	Project concept note approved on 23 June 2023	8,406,484
UNDP Climate Promise	Review of INDC	Project approved in July 2021	300,000
European Union	Mauritius from Ridge to Reef – Restoration of the native forest cover (including mangroves) as part of an integrated sustainable landscape management initiative to enhance the climate resilience of natural ecosystem, augment carbon sequestration.	Awaiting the signature of Financing Agreement. (EUR 4,000,000)	4,720,000
European Union-Switch Africa	Improving Sustainable Tourism in Mauritius Through Greening the Value Chain of Tour Operators (SUS-ISLAND)	Project approved on May 2018. (EUR 1,200,000)	1,405,714
	Greening of Public sector	Project approved in 2021. Received as technical assistance.	

Funding Agency	Project Title/Objective	Date Approved	Approved Amount (USD)
African Development Bank	Gas Insulated Switchgear (GIS) substations. (The purpose of the loan is to undertake the necessary network expansion investments that will enhance the reliability of the national grid and permit the installation, interconnection, and absorption by the national power system of the envisaged additional renewable energy generating facilities)	Loan approved on 21 July 2023.	2,444,444
Abu Dhabi Fund	Home Solar Project: The project aims at reducing production of electricity from fossil fuels through the development of solar PV.	-	10,000,000

On the adaptation side, the details of support received, and activities undertaken are provided in *Table 34*.

Table 34: Resources Mobilised from International Funding Agencies for adaptation projects from 2016 to 2024

No	Funding Agency	Project Title/Objective	Date Approved	Approved Amount (USD)
1	Green Climate Fund (GCF)	Climate Change Vulnerability & Adaptation Study for the Port of Port Louis (CTCN)	Project approved on 30 March 2017	324,764
2		HYDROMET Project - Building Regional Resilience through Strengthened Meteorological, Hydrological and Climate Services in the Indian Ocean Commission Member Countries	Funding proposal approved by GCF Board on 06 April 2021. Rs 2,856,000,000 for IOC. Mauritius component is assumed at USD 12,500,000	12,500,000
3		Building Climate -resilient health systems in Mauritius	Approved by GCF	429,127
4		Strengthening science-based and climate-informed decision-making processes in Mauritius climate-sensitive sectors for impactful and cost-effective climate change programming	Project approved on 04 November 2022	590,000
5		Readiness and Preparatory Support Programme - Advancing the agriculture, water and energy pipeline, with increased awareness of key stakeholders and strengthening capacities of the NDA and direct access applicants in the Republic of Mauritius	Recently approved by GCF	749,489

No	Funding Agency	Project Title/Objective	Date Approved	Approved Amount (USD)
6	Global Environment Facility (GEF)	Mainstreaming Biodiversity into the Management of the Coastal Zone in the Republic of Mauritius	Project approved on 30 March 2016	4,664,52
7		Mainstreaming Invasive Alien Species (IAS) Prevention, Control and Management.	Project Approved on 27 June 2019	3,888,265
8		Mainstreaming Sustainable Land Management and Biodiversity Conservation in the Republic of Mauritius	Project approved on 02 July 2020	1,699,204
9		Preparation of the Fourth National Communication (NC4) for the Republic of Mauritius under UN Framework Convention on Climate Change (UNFCCC)	Project Cooperation Agreement signed between this ministry and UNEP on 23 July 2020	500,000
10	UNEP CCC - Danish Government	Piloting Loss and Damage methodology in two cities for the Development of local and national plans	Project recently approved - Duration is 18 months	75,000
11		Undertake assessment and prepare an implementation plan for a nature-based solution to address urban heat and flooding for an area of the target city	Project recently approved - Duration is 18 months	50,000
12	Adaptation Fund	Restoring marine ecosystem services by restoring coral reefs to meet a changing climate future	Project approved on 15 December 2018	5,000,000
13	AFD	Study on coastal risks assessment for Mauritius and Rodrigues Bureau de Recherches Géologiques et Minières (BRGM)	Study on coastal risks assessment for Mauritius and Rodrigues by BRGM/AFD FEXTE Etude littoral (CMU1091) was signed on 15 February 2022. (EUR 1000 000)	1,080,000
14		Faciliter 2050 - Building A Shared "Vision 2050" For A Climate-Resilient and Carbon-Neutral Country By 2050	Agreement signed on 14 July 2022 for the amount of EUR 1100000	1,188,000
15		Adapt'Action 1 Programme - Land drainage masterplan and coastal vulnerability assessment at 6 sites and technical assistance for disaster risk management	2,000,000 Euros. Signed on 12 December 2017	2,160,000

No	Funding Agency	Project Title/Objective	Date Approved	Approved Amount (USD)
16		Support in project preparation in water sector (FAPS)	EUR 500,000.00 Signed on 22 July 2024	540,000
18		Subvention en accompagnement du prêt de politique publique eau Funding is used to prepare the water sector masterplan to enable Mauritius to face new challenges, including climate change. In addition, it will be used to improve quality of water supply in Mauritius and Rodrigues and improve capacity of institutions.	Project approved on 01 December 2023. (EUR 1,520,000). In addition, technical support of Euro 480,000 has been provided as support to MEPU and RRA in the water sector	2,160,000
19		Protocole D'entente pour la mise en oeuvre de L'Accord de Paris sur le climat for a grant of Euro 800,000 under AdaptAction Phase II programme AdaptAction II - The programme aims to manage rainwater and control flooding	Project approved on 26 February 2024. (EUR 800,000)	864,000
20		Convention de Partenariat Fexte Tripartite for a grant of Euro 1.3 million The Convention de Partenariat Fexte Tripartite, it was entered into by MOFEPD, the Rodrigues Regional Assembly (RRA), the AFD and the Bureau De Recherches Geologiques et Minieres. The objective of this technical assistance is to conduct hydrological surveys in Rodrigues to improve underground water resource management.	Project approved on 26 February 2024. (EUR 1, 300,000)	1,404,000
21	European Union	Institutional Gaps and Needs Assessment to operationalise the Climate Change Act 2020		112,320
22	European Union - Climate Smart Agriculture	The objective is to increase the capacity of vulnerable non-sugar planters and key stakeholders in developing climate smart agriculture in Mauritius and Rodrigues.	Financing Agreement signed on 10 March 2017. (EUR 3,000,000)	3,514,286
23	European Union- Global Monitoring for Environment and Security (GMES) and Africa Support Programme	The objective is to focus on monitoring and forecasting of Physical and Biological oceanography variables, fishing zones monitoring and protection, aquaculture site monitoring and protection, coastal Ecosystem Mapping, Coastal vulnerability, three day's Marine Weather forecast.	Project approved on 12 July 2018. (EUR 1,400,000)	1,640,000

No	Funding Agency	Project Title/Objective	Date Approved	Approved Amount (USD)
24	European Union - DeSIRA initiative	The Overall Objective of the project is to foster innovation in agriculture to raise national food security and safety in the context of sustainable development and to contribute to reducing poverty and vulnerability	Project Concept Note approved on 21 Dec 2018 (EUR 3,000,000). Project has been completed	3,514,286
25	Global Climate Change Alliance (GCCA+) - European Union	Improving the resilience of small holders in the agricultural sector to climate change	Project approved for an amount of EUR 568,870.40	671,267
26		Setting up of an integrated organic chilli farm at Montagne du Sable and a lime and Honey farm at Anse Ali		1,180,000
27		Transformation of Belle Mare into a Climate Smart Agriculture Village for Climate Resilience, Food Security and Poverty Alleviation of its Farmers	Project approved for an amount of EUR 301,695.25	356,000
28		Supporting Climate Smart Agriculture for smallholders in the Republic of Mauritius • Technical assistance for studies and feasibility studies	Project approved for an amount of EUR 280,000	330,400
29	United Kingdom	UK Small Islands Developing States Capacity and Resilience Programmes (SIDAR)**	Project approved on 18 October 2023 for an amount of GBP 207,750	250,000
30	Southern African Development Community (SADC) - RVAA Programme	Mauritius Vulnerability Assessment and Analysis Committee (MVAC) - Vulnerability Assessment in the Agricultural Sector	Project approved on 28 September 2020 for USD 105,000. Actual amount received USD 47,000.	47,000

In addition to the above-mentioned projects, few additional adaption related projects were also implemented in Mauritius and same is given below.

GEF Projects

a. Support for the National Reporting Process of the United Nations Convention to Combat Desertification (UNCCD)

The GEF has provided UNCCD with USD 63,000 with the objective of enabling Country parties to collect necessary biophysical and socioeconomic data, establish sound reporting and monitoring systems at the national level, and report against the United Nations Convention to Combat Desertification (UNCCD) Strategy. One of the components of the projects includes raising of awareness for land degradation and sustainable land

management. In 2023, a workshop was held to build capacity and train stakeholders for data collection and in Geo-spatial analysis tool. A three-day mission was also conducted for Rodrigues for stakeholder training and validation workshop was held in June 2023. The final report has been submitted to the UNCCD secretariat by the Forestry Service.

b. Strengthening National Level Institutional and Professional Capacities of Country Parties Towards Enhanced UNCCD Monitoring and Reporting

The GEF has provided financial support of USD 90,000 to the project on strengthening national level institutional and professional capacities of country parties towards enhanced UNCCD monitoring and reporting. The Forest Service is the National Focal point of the UNCCD for Mauritius.

c. Land Degradation Neutrality Target Setting in Mauritius

Mauritius was one of the countries to commit to set up national voluntary land degradation neutrality (LDN) targets and establish a national baseline and formulate a National Baseline. The project was from 2017 to 2018 and including identification of potential land degradation hotspots. An inception workshop was held on 11th May 2017 and a validation workshop was held on 20th April 2018 and the final draft report was submitted in June 2018.

UNESCO Projects

a. Man and Biosphere (MAB) Programme Mauritius 2022- 2023

The MAB programme for Mauritius provides a means of support to activities related to conserving biodiversity, restoring and enhancing ecosystem services, and fostering the sustainable use of natural resources. The UNESCO provided funding of USD 18,000 for the implementation of the activities under this programme, which included knowledge-enhancement through workshops and the distribution of awareness-raising materials. A workshop was hosted by the Forestry Service in November 2023 on 'Laws governing the Biosphere Reserves'.

FAO Projects

a. Enhancing rural livelihoods and agriculture productivity through agroforestry development in Mauritius

The FAO provided a funding of USD 371,000 to enhance the livelihoods of people through identifying, testing and adopting good agroforestry options in underutilized/abandoned agricultural land and promoting agroforestry enterprises. The project was implemented by the Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries / Forestry Service with a duration of two years from June 2021 to May 2021. However, due to the pandemic the project was extended to December 2021 with the validation workshop being held on 16 December 2021. The key outputs of the project included:

- Building of knowledge on the status of underutilised and abandoned agricultural land
- Developing agroforestry technologies/options at various demonstration sites
- Developing a National Action Plan for the upscaling of agroforestry on underutilised/abandoned agricultural land
- Building and raising capacity and awareness for promotion and adoption of agroforestry

b. SADC Great Green Wall Initiative (GGWI) Project 2023

This is an African partnership that aims at stopping and reversing trends in degradation, desertification, climate change and loss of biodiversity. The FAO is supporting the SADC Secretariat for developing the National Action Plan per country aligned with the GGWI strategy. Mauritius as part of the SADC and is supported in preparing the NAP. The focus is on restoring productive landscapes for the provision of ecosystem services and resilience

against climate shocks. The project began in August 2023 and a National Specialist was recruited to develop the NAP and a validation workshop was held on 30 November 2023 at Labourdonnais Waterfront Hotel in collaboration with the FAO. Post the workshop, the NAP was submitted to the Ministry of Agro-Industry, Food Security, Blue Economy and Fisheries for validation by the cabinet and then same will be submitted to the SADC Secretariat.

Other Projects

a. Standards for treated manure from animal waste

The Ministry of Environment, Solid Waste Management and Climate Change secured funds of USD 371,000 from UNEP in the Switch-Africa Green programme for production of quality manure.

b. Setting up of a pilot biogas demonstration project at CLRS for the production of electricity

The project involves the construction of a 45 m³ concrete digester (WASAZA model) for generation of electricity. The project will be used a show case and aims to improve public's opinion by adding value to livestock waste for generating biogas, electricity and liquid fertilizer.

c. Promoting Climate Smart Agriculture Concepts among small livestock holders in the Republic of Mauritius

The project aims to increase resilience of livestock holders through capacity building and promotion of adoption of climate change strategies. It is proposed that livestock holders are trained in smart agriculture practices and become exposed to adapted climate change technologies and practices to ensure sustainability of their production systems to warrant their livelihoods and food security.

d. Performance assessment of home biogas (HBG 4.0) Household Biogas System

The objective of the project is to evaluate the efficiency of this biogas system in terms of biogas production and waste management.

Projects which have recently received funding:

a. Advancing the agriculture, water and energy pipeline, with increased awareness of key stakeholders and strengthening capacities of the NDA and direct access applicants in the Republic of Mauritius

This is a GCF project with a funding of USD 749,489 with FAO as the delivery partner. Project is approved and receipt of fund is awaited.

b. Strengthening the institutional capacities of the AISCC member states for climate resilience, including loss and damage, vulnerability and hazards risk assessment.

This is a project with the budget of USD 250,000 with African Island States Climate Commission (AISCC) as the delivery partner for the period of 2024 to 2027. Approval for the project is awaited.

c. Building Regional Resilience through Strengthened Meteorological, Hydrological and Climate Services in the Indian Ocean Commission (IOC)

This is a regional project with an approved budget of USD 52.8 million with AFD as the delivery partner. The duration of the project is from 2022 to 2026. However, there are challenges of poor design of the project as the activities dictated by the delivery partner are not demand driven.

d. Ecosystem-based Adaptation in the Indian Ocean

This is a regional project with an approved budget for Mauritius as USD 6.33 million with Conservation International and AFD as delivery partners for a duration of 2021 to 2030. However, there is limited information regarding the budget received, challenges faced, and status of the project.

e. Project for the drafting of a national water policy

This is an upcoming project for the duration of 2024 to 2027 with the AFD as the delivery partner. Since the project has not started as recruitment is still underway, there is limited information regarding the budget received.

f. Assessing and managing loss and damage in two Cities/Towns

This is an eighteen-month project from 2024 to 2025 with the UNEP Copenhagen Climate Centre as the delivery partner and an approved budget of USD 75,000. Since the project has not started as recruitment is still underway, there is limited information regarding the budget received.

4. Support Needed

The following projects have been framed by the various Government Departments for mitigation and adaptation related activities and financial support is required from donor agencies for implementation.

Table 35: Financial support needed by Mauritius for project implementation

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Energy (Road Transport)	Greening the transport sector in Mauritius through the introduction of electric buses.	Improving mobility in Mauritius in a green and environmentally friendly way by replacing the existing stock of old diesel buses in the public transport sector with electric buses and associated charging infrastructure. From the entire fleet of 528 buses, this project intends to convert 377 buses which are old and need to be replaced, to electric buses.	15.57 million	2025	2029	Mitigation		Emission of 594,453 tCO ₂ over project's lifetime of 16 years, considering the transformation of the fleet accompanied by charging infrastructure converted to solar based charging.	
Energy (Port and Shipping)	Electrification of Rubber-Tired Gantry (RTG) Cranes and Tractor Trailers at Mauritius	The electrification of Rubber-Tired Gantry (RTG) cranes and tractor trailers at the Mauritius Container Terminal, while a critical	20 million	4 years	Grant	Cross cutting (10% Adaptation, 90% Mitigation)	Yes	10000 tCO ₂ reduction every year	GHG reduction, Sustainable operation, job creation, capacity

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
	Container Terminal for Sustainable Port Operations	step towards reducing emissions and enhancing sustainability, faces several root causes and barriers that need to be addressed.							building of technician every year
Energy (Renewable Energy)	Mauritius Renewable Energy Revolving Fund	The project aims to set up a renewable energy revolving fund, which could be provisioned with 27,000,000 USD. Project underscores Mauritius' commitment to sustainable development pathways outlined in its national climate strategies	27 million USD	5 years	Grant	Mitigation	Yes	Switch to renewables and reduction in GHGs	Energy saving techniques and enhancement of energy efficiency in the country
Agriculture (Livestock)	Transformative Methane Reduction in Mauritius: Empowering Women for Climate Resilience in livestock sector	The project strengthens local capacity, fosters public-private partnerships, and facilitates access to climate finance, contributing to both national and global climate goals. Its scalable model can benefit other African nations facing similar challenges.	950,000 USD	2 years	Grant	Adaptation	yes	Reduction in GHG by 12000 tCo2 every year	Women employment, GHG reduction, Capacity building for vulnerable communities and waste management

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Agriculture (Livestock)	Improved food security with adoption of environmentally-sound animal excrement management technologies: L1.1. Increase in livestock heads for increased food security with low-carbon excrement management technologies	Set up small and medium scale biogas units on livestock farm across Mauritius. FAREI will provide technical assistance for biogas project. Movable/Portable biogas system in the range of 4-15 m ³ shall be promoted	1,400,000 USD	6 years	Grant	Mitigation	yes	To reduce CH ₄ emissions in the livestock sector through low-carbon waste management technologies. Reduce CO ₂ emissions through biogas generation by 12.4 ktCO ₂ e. Project will support in meeting NDC target.	
Agriculture (Livestock)	Setting up of a pilot biogas demonstration project at CLRS to produce electricity	The project involves the construction of a 45 m ³ concrete digester (WASAZA model) for generation of electricity.	90,000 USD		Grant	Mitigation	yes	Green Circular economy (waste recycling). The project will be used to show case and improve public's opinion by adding value to livestock waste for generating biogas, electricity and liquid fertilizer.	
Agriculture (Crops)	Soil Health and Fertility Management	Development of seaweed Composting Technology and evaluation of the seaweed compost	133,000 USD		Grant	Adaptation	yes	Seaweed composting technology developed and disseminated to farmers.	

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
		produced in vegetable crop production							
Agriculture (Crops)	Climate Smart Water and Energy Saving Technologies	Development of new climate resilient methods of production and dissemination of novel water and energy saving irrigation technologies	325,000 USD		Grant	Adaptation	yes	Efficient water and energy efficient technological packages developed and disseminated	
Agriculture (Crops)	Promote Climate Smart Agriculture practices.	Development of organic fertiliser package for vegetable and fruit production	75,000 USD		Grant	Adaptation	yes	Sustainable Land Management and Sustainable Soil Fertility Management promoted and implemented. Reduction in Chemical fertiliser use and GHG emission	Strategic plan for Food Crop and livestock sectors (2024-2030)
Agriculture (Crops)	Development and promotion of Organic Farming	Development of organic fertiliser package for vegetable and fruit production	22,000 USD		Grant	Adaptation	yes	Organic fertiliser package for vegetable and fruit production developed	National Strategic Plan for Organic Farming (2018-2027)

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Agriculture (Crops)	Integrated pest and disease management	Development of packages for sustainable management of pest and diseases management	100,000 USD		Grant	Adaptation and Mitigation	yes	Integrated pest and disease management	Strategic plan for Food Crop and livestock sectors (2024-2030)
Agriculture (Crops)	Biosecurity and Disease Surveillance	Systematic pest and disease surveillance programs for key crops are ongoing to monitor and manage pest and disease outbreaks and report on new pests and diseases.	20,000 USD		Grant	Adaptation and Mitigation	yes	Biosecurity and Disease Surveillance	Strategic plan for Food Crop and livestock sectors (2024-2030)
Agriculture (Crops)	Fruit production and Orchard Development- Introduction and evaluation of improved varieties and species	Introduction of Fruit varieties and species with higher yield / tolerant to biotic and abiotic changes and extending production season.	106,700 USD		Grant	Adaptation	yes	Fruit varieties and species with higher yield / tolerant to biotic and abiotic changes and extending production season evaluated	Strategic plan for Food Crop and livestock sectors (2024-2030)

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Agriculture (Crops)	Fruit production and Orchard Development-Improvement of local varieties	Improvement of local varieties with higher yield / tolerant to biotic and abiotic changes	106,700 USD		Grant	Adaptation	yes	Local varieties with higher yield / tolerant to biotic and abiotic changes improved	Strategic plan for Food Crop and livestock sectors (2024-2030)

Mauritius is working on Kigali Implementation Plan and the funding support required for the same is provided in [Table 36](#).

Table 36: Table showing financial support required for Kigali Implementation Plan

KIP activities	USD		
	2025-26	2027-2029	TOTAL
Establishing & implementing regulatory framework	39000	41000	80000
Support for RAC industry	90000	80000	170000
Awareness creation	15000	10000	25000
Project monitoring	25000	25000	50000
Total	169000	156000	325000

D. Information on technology development and transfer support needed and received under Article 10 of the Paris Agreement

1. Overview

Republic of Mauritius is currently not monitoring support received from multilateral and bilateral sources in the form of technology development and transfer separately. All support received have been reported under Section C: Information on financial support received. The country is in the process of updating their online MRV portal which will also monitor the financial, technology and capacity building support received.

2. Technology development and transfer needed for mitigation and adaptation

The technology development and transfer support required by Republic of Mauritius is provided in table below.

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Agriculture (Livestock)	Transformative Methane Reduction in Mauritius: Empowering Women for Climate Resilience in livestock sector	The project strengthens local capacity, fosters public-private partnerships, and facilitates access to climate finance, contributing to both national and global climate goals. Its scalable model can benefit other African nations facing similar challenges.	950,000 USD	2 years	Grant	Adaptation	yes	Reduction in GHG by 12000 tCo2 every year	Women employment, GHG reduction, Capacity building for vulnerable communities and waste management
Agriculture (Livestock)	Improved food security with adoption of environmentally-	Set up small and medium scale biogas units on livestock farm across Mauritius. FAREI	1,400,000 USD	6 years	Grant	Mitigation	yes	To reduce CH ₄ emissions in the livestock sector through low-carbon waste management technologies.	

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
	sound animal excrement management technologies: L1.1. Increase in livestock heads for increased food security with low-carbon excrement management technologies	will provide technical assistance for biogas project. Movable/Portable biogas system in the range of 4-15 m ³ shall be promoted							Reduce CO ₂ emissions through biogas generation by 12.4 ktCO ₂ e. Project will support in meeting NDC target.
Agriculture (Livestock)	Setting up of a pilot biogas demonstration project at CLRS to produce electricity	The project involves the construction of a 45 m ³ concrete digester (WASAZA model) for generation of electricity.	90,000 USD		Grant	Mitigation	yes		Green Circular economy (waste recycling). The project will be used to show case and improve public's opinion by adding value to livestock waste for generating biogas, electricity and liquid fertilizer.
Agriculture (Crops)	Soil Health and Fertility Management	Development of seaweed Composting Technology and evaluation of the seaweed compost produced in vegetable crop production	133,000 USD		Grant	Adaptation	yes		Seaweed composting technology developed and disseminated to farmers.

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Agriculture (Crops)	Climate Smart Water and Energy Saving Technologies	Development of new climate resilient methods of production and dissemination of novel water and energy saving irrigation technologies	325,000 USD		Grant	Adaptation	yes	Efficient water and energy efficient technological packages developed and disseminated	
Agriculture (Crops)	Promote Climate Smart Agriculture practices.	Development of organic fertiliser package for vegetable and fruit production	75,000 USD		Grant	Adaptation	yes	Sustainable Land Management and Sustainable Soil Fertility Management promoted and implemented. Reduction in Chemical fertiliser use and GHG emission	Strategic plan for Food Crop and livestock sectors (2024-2030)
Agriculture (Crops)	Development and promotion of Organic Farming	Development of organic fertiliser package for vegetable and fruit production	22,000 USD		Grant	Adaptation	yes	Organic fertiliser package for vegetable and fruit production developed	National Strategic Plan for Organic Farming (2018-2027)

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Agriculture (Crops)	Integrated pest and disease management	Development of packages for sustainable management of pest and diseases management	100,000 USD		Grant	Adaptation and Mitigation	yes	Integrated pest and disease management	Strategic plan for Food Crop and livestock sectors (2024-2030)
Agriculture (Crops)	Biosecurity and Disease Surveillance	Systematic pest and disease surveillance programs for key crops are ongoing to monitor and manage pest and disease outbreaks and report on new pests and diseases.	20,000 USD		Grant	Adaptation and Mitigation	yes	Biosecurity and Disease Surveillance	Strategic plan for Food Crop and livestock sectors (2024-2030)
Agriculture (Crops)	Fruit production and Orchard Development- Introduction and evaluation of improved varieties and species	Introduction of Fruit varieties and species with higher yield / tolerant to biotic and abiotic changes and extending production season.	106,700 USD		Grant	Adaptation	yes	Fruit varieties and species with higher yield / tolerant to biotic and abiotic changes and extending production season evaluated	Strategic plan for Food Crop and livestock sectors (2024-2030)

Sector	Title of the activity programme or Project	Programme Project Description	Estimated Amount, USD	Expected time frame	Expected Financial instrument	Type of Support (Adaptation, Mitigation, Cross Cutting)	Contribution of capacity building objective	Impact	Estimated results
Agriculture (Crops)	Fruit production and Orchard Development-Improvement of local varieties	Improvement of local varieties with higher yield / tolerant to biotic and abiotic changes	106,700 USD		Grant	Adaptation	yes	Local varieties with higher yield / tolerant to biotic and abiotic changes improved	Strategic plan for Food Crop and livestock sectors (2024-2030)

E. Information on capacity-building support needed and received under Article 11 of the Paris Agreement

3. Overview

Mauritius received USD 0.96 million as grant funding for capacity building initiatives under Article 11 of Paris Agreement. Of this, USD 0.85 million provided by Global Environment facility (GEF) was to support in development of First Biennial Update Report and Fourth National Communication. Remaining USD 0.112 million provided by European Union was for Institutional Gaps and Needs Assessment to operationalise the Climate Change Act 2020.

4. Capacity building support needed

Capacity building support required by Republic of Mauritius is provided in *Table 37*.

Table 37: Table showing capacity building requirements of Mauritius

Areas/ Sectors	Capacity Building Needs	Technical Needs
Adaptation	<p><u>National Climate Change Adaptation Policy Framework, 2021</u></p> <p>For the water, infrastructure and disaster risk reduction; fisheries and blue economy; coastal zone and tourism sectors; and biodiversity, capacity building need to:</p> <ul style="list-style-type: none"> - undertake vulnerability assessment. - develop guideline to undertake the risk assessment in each of the sectors. - map hazards and their impacts on the robustness and economics of relevant adaptation sectors (common sensing project). - quantify the associated economic loss and damage due to disaster. - empower officers on the tools developed under the UNFCCC Secretariat; and - Build knowledge on modelling, scenario/projections. <p><u>Third National Communication (TNC)</u></p> <ul style="list-style-type: none"> - Capacity of institutions on the use of climate related data for infrastructure planning - Capacity building on restoration of landscape integrity and technology development for the infrastructure sector - Enhance fisher’s sensitization and training programme 	<p>Agriculture</p> <ul style="list-style-type: none"> - Integrated pest and disease management and bio-farming technologies; ways to introduce revenue-generation mechanisms, other technologies (GIS, agro-meteorological stations) - Improve technology transfer in the agriculture sector - Develop efficient irrigation techniques - Promote climate-smart agricultural practices <p>Coastal Zone and Tourism</p> <ul style="list-style-type: none"> - Coastal protection works – site investigation/source identification; planting of native vegetation; re-establishment of marshes; mangroves/seagrass restoration; coral nursery <p>Water</p> <ul style="list-style-type: none"> - Development and use of hydrological models - Reduction of water losses in distribution system - Promote soil and water conservation techniques - Increase water storage capacity - Modernize data acquisition and management system <p>Biodiversity</p>

Areas/ Sectors	Capacity Building Needs	Technical Needs
		<ul style="list-style-type: none"> - Research and development on impacts of climate change on native forests - Maintenance of replanted forests - Removal of invasive alien species - Improving the resilience <p>Fisheries</p> <ul style="list-style-type: none"> - Promote sustainable aquaculture and climate-smart fisheries practices - Set up coral nursery - Create a centralized knowledge repository to promote seagrass restoration and mangrove propagation <p>Health</p> <ul style="list-style-type: none"> - Implementation of early warning system of surveillance to monitor trend of vectors, environmental hazards and climate sensitive diseases - Creation of a Unit for vector-borne and climate-sensitive diseases <p>Infrastructure</p> <ul style="list-style-type: none"> - Use of resilient materials and techniques in flood prone areas
<p>Mitigation</p>	<p><u>TNC / First Biennial Update Report (BUR-1)</u></p> <ul style="list-style-type: none"> - Building capacity on mitigation analysis and quantification of GHG emission. - Additional training of Energy Auditors and on EE enforcement. - Capacity building on waste-to-energy technology. - Training of trainers on energy saving and energy efficiency; and - Human and institutional capacity building for a new generation of appliances and installations. <p><u>ICA Analysis of BUR-1</u></p> <ul style="list-style-type: none"> - Enhance national capacity to identify and monitor the progress indicators of each specific mitigation action to serve as inputs to the online MRV platform currently being established. - Enhance national capacity to quantify emission reductions from the mitigation actions in all sectors, in particular the forestry sector; and - Enhance national capacity to develop and report appropriate methodologies and 	<ul style="list-style-type: none"> - Technology transfer for project development and calculation of emissions from waste

Areas/ Sectors	Capacity Building Needs	Technical Needs
	<p>assumptions associated with mitigation actions to quantify, track and report their emission reductions, achievements and results.</p>	
<p>GHG Inventory</p>	<p><u>TNC/ BUR-1</u></p> <ul style="list-style-type: none"> - Enhance capacity of researchers and relevant stakeholders as well as provide better laboratory facilities or collaborate with regional institutions and labs on determination of country specific emission factors. - Capacity building on the development of country specific emission factors. - Build human and institutional capacity to gather primary activity data. - Refinement of the GHG inventory system and capturing data on trees outside forest area and ground-truthing on private land; and - Training on remote sensing for land use change. <p><u>ICA Analysis of BUR-1</u></p> <ul style="list-style-type: none"> - Improve data collection for energy use by households and taxis since 2013. - Develop a consistent time series for the AD used for road transport emission estimates. - Improve data collection in relation to estimating emissions from fuel combustion using both the reference approach and the sectoral approach. - Improve the methodology used to refine data for the iron and steel category (1.A.2.a). - Improve arrangements for collecting and managing data for the livestock categories. - Improve national arrangements for collecting, sharing, archiving and documenting data for estimating non-CO₂ emissions from land. - Improve execution of the chosen methodology for calculating emissions from the livestock categories. - Improve information and data on land use and land-use changes and their associated uncertainties. - Enhance and strengthen national institutional capacity to improve the collection and management of data for the AFOLU sector for Rodrigues Island, as well as cooperation between relevant departments. 	<p><u>TNC</u></p> <ul style="list-style-type: none"> - Refinement of the GHG inventory system and capturing data on trees outside forest area and ground-truthing on private land.

Areas/ Sectors	Capacity Building Needs	Technical Needs
	<ul style="list-style-type: none"> - Enhance national capacity to develop country-specific biochemical oxygen demand values for wastewater, and to refine data on solid waste disposal for 1960–1999. - Enhance national capacity to develop country-specific EFs across all sectors of the inventory. - Enhance national capacity to estimate and report on the impacts of recalculations at the category level and also on the overall impact on the GHG inventory time series. - Enhance the technical capacity of those involved in the QA/QC and approval processes. - Enhance national capacity to implement planned improvements in all sectors in the inventory; and - Enhance national capacity to implement permanent institutional arrangements for preparing the GHG inventory. 	
Finance	<ul style="list-style-type: none"> - Build capacity of stakeholders to prepare project proposals to Enhance Access to Climate Finance. 	<ul style="list-style-type: none"> - Develop robust project proposals for submission to donor agencies to access funds for the implementation of NDC Action Plan
Measurement, Reporting and Verification (MRV)	<p><u>BUR-1</u></p> <ul style="list-style-type: none"> - Build technical capacity of the national team to establish the technical bases and transfer of knowledge required for the design and implementation of the MRV system; and - Enhance national capacity to prepare and implement the requirements of the enhanced transparency framework (ETF). 	
Support Institutional Capacity Development	<p><u>ICA Analysis of BUR-1</u></p> <ul style="list-style-type: none"> - Enhance national technical capacity to: - estimate and report the financial needs to address identified constraints and gaps for climate change activities. - identify technology needs to address climate change. - develop efficient processes and tools for tracking and reporting the type of support received (financial, technology transfer, technical and capacity-building) for specific climate change activities; and - further develop sound institutional arrangements for tracking and reporting support received (finance, technology and capacity-building). 	

Areas/ Sectors	Capacity Building Needs	Technical Needs
Cross-cutting	<p><u>TNC</u></p> <ul style="list-style-type: none"> Capacity building programme of officers and gender focal points on gender and its implications on climate change and on adopting a gender lens while planning, implementing and evaluating projects and programmes. 	

5. Capacity building support received

Capacity building support received by Republic of Mauritius is given in *Table 38*.

Table 38 Capacity building support received

Organizing Institution/Funding Agency	Objective	Duration	Location
African Development Bank (AfDB), The COP29 Presidency and AIDA, Supported by UNFCCC secretariat	<p>The specific objectives of this workshop were as follows:</p> <ul style="list-style-type: none"> Provide in-depth technical advice on the application of the ETF modalities, procedures and guidelines, including use of CRTs and CTFs, along with practical one-on-one coaching; Facilitate feedback and exchange among workshop participant peers about their on-going work on different chapters of their BTRs; Promote sharing of lessons learned and experiences, particularly in overcoming certain technical issues and challenges, including through use of existing data and information, such as from BURs, NCs and NDCs; Build confidence of developing countries to submit their BTRs as early as possible in 2024. 	9 th to 11 th September	Nairobi, Kenya
CBIT-GSP supported by UNFCCC and the UNEP Copenhagen Climate Centre	Training of participants on BTR development	1 st to 4 th July 2024	In country
CGE regional hands-on training workshop	Reporting information on climate change impacts and adaptation, and support needed and received in relation to adaptation reporting. The main objectives of the workshop were to	25 th to 28 th April 2023	Cape Verde

Organizing Institution/Funding Agency	Objective	Duration	Location
	<ul style="list-style-type: none"> raise awareness of national institutions and experts on the reporting provisions for information related to climate change impacts and adaptation under the Paris Agreement and the Convention, including the support needed and received in relation to reporting on adaptation; and provide an overview of data collection and management, as well as methodologies and approaches used for assessing impacts, risks and vulnerabilities, as well as identifying and prioritizing adaptation actions and reporting on information related to averting, minimizing and addressing loss and damage associated with climate change impacts and support needed and received for adaptation. 		

In addition to the above-mentioned capacity building support, the Representatives from Statistics Mauritius were provided the following capacity building training:

- Peer Learning Workshop on National Greenhouse Gas Inventory Management Systems and Tools- Cape Town, South Africa, 2023
- Capacity-building Initiative for Transparency - Global Support Programme (CBIT-GSP), Tokyo, 2024

Republic of Mauritius also received support for reporting and details are provided in [Table 39](#).

Table 39 Support received for reporting

Funding Agency	Project Title/Objective	Date Approved	Funding Amount (USD)
Global Environment Facility (GEF)	Preparation of the Biennial Update Report (BUR) under UN Framework Convention on Climate Change (UNFCCC)	Project Cooperation Agreement was signed between UNEP and this Ministry on 24 December 2015	352,000
	Preparation of the Fourth National Communication (NC4) for the Republic of Mauritius under UN Framework Convention on Climate Change (UNFCCC)	Project Cooperation Agreement signed between this ministry and UNEP on 23 July 2020	500,000
European Union	Institutional Gaps and Needs Assessment to operationalize the Climate Change Act 2020	-	112,320

F. Information on support needed and received for the implementation of Article 13 of the Paris Agreement and transparency-related activities, including for transparency-related capacity-building

The Capacity Building Initiative for Transparency (CBIT) funded by UNDP is aimed at improving the quality of the national GHG inventory and the data collection, storage and dissemination processes associated, thereby improving reporting and transparency and providing a firmer basis for evidence-based-policymaking. As part of this project, four capacity building programmes for stakeholders have been conducted in Mauritius on the IPCC 2006 Guidelines for National GHG Inventory and its 2019 refinement focusing on Energy, IPPU and AFOLU sectors. Further training programmes will be conducted in 2025.

Country Parties to the UNFCCC are required, in accordance with Article 13 of the Paris Agreement, to establish an Enhanced Transparency Framework for action and support, with built-in flexibility which takes into account Parties' different capacities and builds upon collective experience. Along this line, the Global Environment Facility (GEF) has established a Fund to the "Capacity Building Initiative for Transparency (CBIT)" in order to implement the framework by developing countries. In this context, UNDP with funding resources from GEF is supporting Mauritius to strengthen the national greenhouse gas inventory of the Republic of Mauritius to improve climate reporting and transparency. Under this project, Republic of Mauritius received grant funding of USD 1.269 million.

The objective of the CBIT project is to assist Mauritius on improving the quality of the national GHG inventory and the data collection, storage and dissemination processes associated, thereby improving reporting and transparency and providing a firmer basis for evidence-based-policymaking. Without this project and GEF intervention, Mauritius will not be able to improve the national GHG inventory and strengthen the underlying inventory processes, which have immediate benefits for national reporting (the National Communications and Biennial Transparency Reports), for the tracking of emissions progress against the NDC targets and for future revisions to the NDC target. Further, the country will be able to increase broader institutional engagement in GHG transparency from the private sector and from civil society, resulting in improved evidence-led policy-making and better integration of the inventory in national development policies and programmes.

The four components of the project are:

Component 1: Improve the accuracy and localisation of the National Greenhouse Gas Inventory

Expected Outputs:

- Output 1.1: Development of Tier 2 emission factors for key fuels: coal, heavy fuel oil, gasoline, diesel, kerosene, aviation fuel and liquefied petroleum gas – for application in Energy Industries, Transport, Manufacturing Industry and Construction, and Energy Other Sectors
- Output 1.2: Development of Tier 3 emission factors for Mauritius' thermal power plants and a real-time grid emission factor – for application in Energy Industries and (increasingly) Transport
- Output 1.3: Development of Tier 2 activity data for Mauritius's land transport sector (road, Metro), augmented by gender and socio-economic usage data
- Output 1.4: Development of Tier 2 enteric fermentation emission factors and model for livestock
- Output 1.5: Development of Tier 2 allometric equations, root-to-shoot ratios and carbon densities for 4 key tree species in the Mauritian context
- Output 1.6: Ground-truthed forest inventory of privately held forestland and non-forest tree cover (e.g. along riverbanks and roadsides)

Component 2: Strengthen the national greenhouse gas inventory process

Expected Outputs:

- Output 2.1: Implemented government roadmap for a permanent MRV structure, including firm government financing and institutional commitments
- Output 2.2: Development of an IT-based system to simplify and streamline the inventory data collection process

Component 3: Mainstream the national greenhouse gas inventory to enhance transparency and support policy-making

Expected Outputs:

- Output 3.1: Targeted training on the use of the new IT-based system and on the use of the inventory for policy formulation, target-setting, scenario analysis and MRV of NDC commitments
- Output 3.2: Enhancing the role of the Climate Change Information Centre (CCIC) as a transparency portal

Component 4: Monitoring and Evaluation and Knowledge Management

Expected Outputs:

- Output 4.1: Project results and outcomes monitored and evaluated
- Output 4.2: Lessons learned, and best practices shared with other Parties through the Global Coordination Platform and other cooperation networks

Altogether these four components will enhance capacities to meet the provisions stipulated in Article 13 of the Paris Agreement.

G. Specific flexibility provisions applied

Since Republic of Mauritius is not separately tagging technology support received and required, all information of support received is reported under financial support received and required. The country as a robust MRV portal which is being upgraded with support from Initiative for Climate Action Transparency (ICAT) to monitor fund received for adaptation and mitigation projects.

H. Information on areas of improvement in relation to reporting

The following areas of improvement were identified after discussion with stakeholders:

- i. Mauritius has estimated the quantum of external financial support required for meeting NDC target (conditional portion). However, there is no clarity of the support required for individual sectors where reduction targets have been established, like energy (non-transport), transport, IPPU and waste.
- ii. Mauritius also needs to identify the type of technology required for meeting its NDC target for each sector.
- iii. As finance requirement is key to Mauritius reducing its national GHG emissions by 40% from 2030 BAU level, it is pertinent to explore the possibility of co-operation under Article 6.2 and 6.4 of Paris Agreement.
- iv. A dedicated cell can be established under the Climate Change Department of MoESWMCC to monitor and evaluate the type of financial, technology and capacity building support required and received to ensure that the process of collecting and maintaining data is streamlined

I. Report with other relevant information, including information on gender and climate change

1. Gender and Climate Change

In 2023, Mauritius had a population of around 1.2 million of which 50.6% are female and 49.4% are male. More women are enrolled in tertiary services like covering trade, accommodation service, transportation, health, education and other service industries as compared to men. Only 11.4% of working women were heads of business compared to 25.2% among men. Till 2023, women were largely under-represented in decision making at higher sphere of society with the Government having only 4 female ministers out of a total of 23 ministers.

The following agencies in Mauritius deal with gender issues:

- Ministry of Gender Equality and Family Welfare (address gender issues).
- Department of Climate Change, Ministry of Environment, Solid Waste Management and Climate Change (address gender & climate change issues).
- National Women Council (address gender and gender & climate change issues).
- NGO Gender Links (address gender issues).
- Food and Agricultural Research and Extension Unit (address gender & climate change issues); and
- Ministry of Industry, SMEs and Cooperatives (address gender issues).

Few of the key national laws and/or policies that relate to integrating gender in climate action are:

- The updated Mauritius Nationally Determined Contribution which was submitted to the secretariat of the UNFCCC on 05 October 2021 makes provision for gender consideration as a cross-cutting issue.
- The Communication Plan and Toolkit under the updated NDC included awareness of women on climate change as a key target group. A total of 9 sessions were carried out targeting around 250 women; and
- A Gender Action Plan prepared in the context of the Nationally Appropriate Mitigation Action (NAMA) project.
- The Action Plan gives a review on how gender concerns have been incorporated in the NAMAs and national plans and strategies addressing low carbon strategies and to consider how these issues have been mainstreamed into national planning and where future attention should be focused.

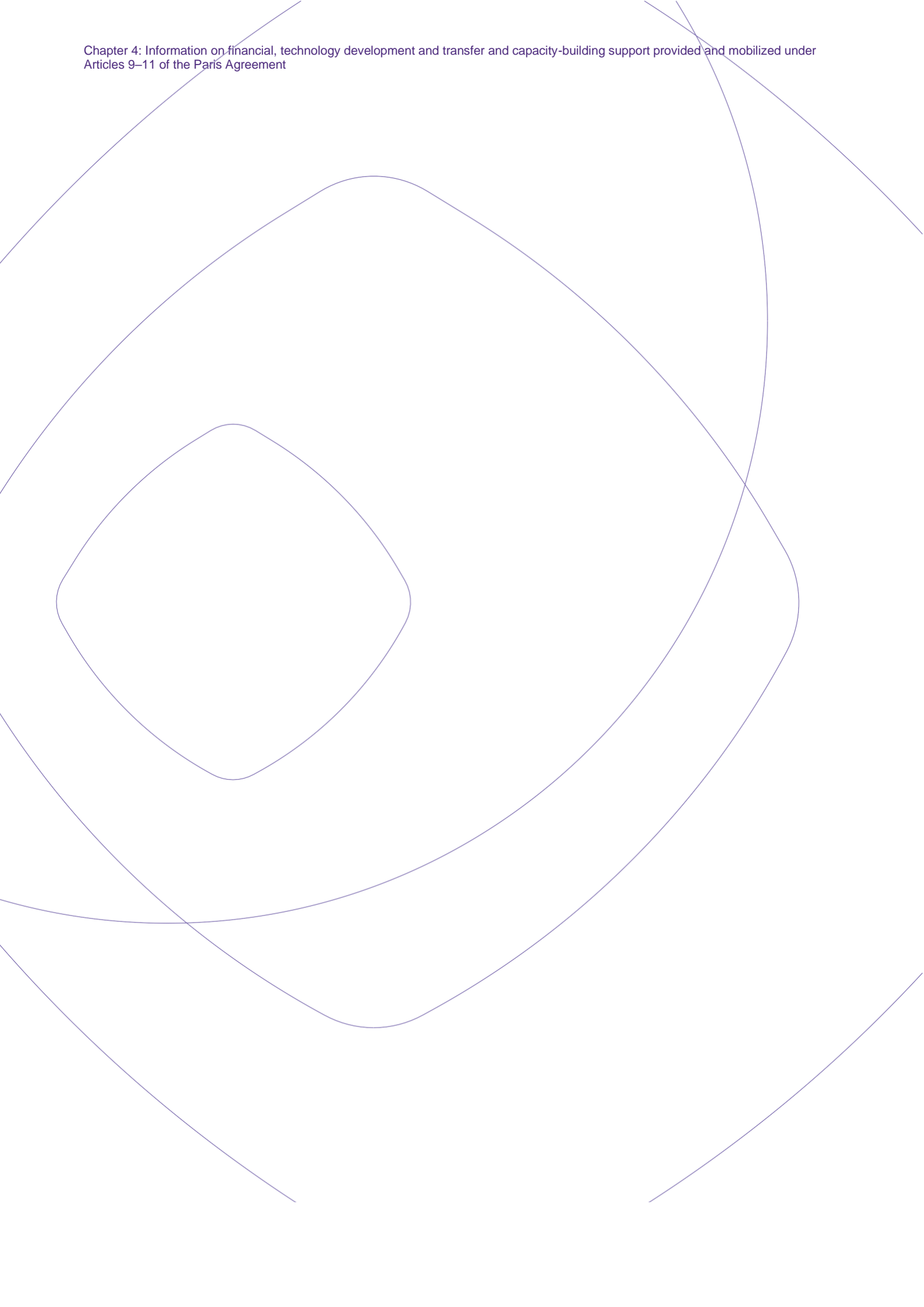
Actions taken for gender mainstreaming.

- Republic of Mauritius has been working continuously to ensure gender mainstreaming in climate action. As part of its gender mainstreaming strategy, participation of women is encouraged in all capacity building programmes. The Technical Working Groups formulated for the preparation of this First Biennial Transparency Report also ensured gender.
- The Capacity Building Initiative for Transparency project which is presently under implementation is propagating the need for gender-disaggregated data and indicators to ensure inclusion of gender issues in the GHG inventory processes.
- The National Gender Policy 2022 – 2030 developed by the Ministry of Gender Equality and Family Welfare provides guidelines that will underpin Government’s commitment to integrate gender into all development planning, implementation, monitoring and evaluation. In this respect, it provides the basis upon which every sector, department and non-state actors will be guided to develop their gender policies for implementation at sectoral and institutional levels.
- The Climate Change Act 2020 makes provision for commissioning studies on climate change, taking into consideration, inter alia, human rights, cultural heritage and **gender** issues.
- As per the National Gender Policy 2022 – 2030, all government organizations must integrate gender into all development planning, implementation, monitoring and evaluation.

2. Improvements in BTR Report (as compared to BUR and NIR)

Sector	BUR/ NIR Reference	Improvement/ Changes in BTR
Energy	For estimating emissions from road transport in Island of Rodrigues, distance travelled per day by different types of vehicles in Rodrigues was considered. Fuel consumed for ground transport is reported under 1A3e Other transportation category	For road transport emissions in Island of Rodrigues, distance travelled by different types of vehicles was considered to be same as that of Island of Mauritius.
Industrial Processes	For emissions under category 2D1 (Non-Energy Products from Fuels and Solvent Use as Lubricant Use), activity data has	For emissions under category 2D1, mapping has been done for lubricant, paraffin wax, bitumen/asphalt and solvents

Sector	BUR/ NIR Reference	Improvement/ Changes in BTR
and Product Use (IPPU)	<p>been collected from International Energy Agency (IEA) and lack of more detailed information, this completed fuel has been assumed as lubricants.</p> <p>For emissions under Category 2C1 (Iron and Steel Production), earlier emissions were reported based on actual production data production data provided by Industrial Development Division and estimation for some years.</p>	<p>in consultation with Statistics Mauritius. Consumption data is derived based upon various HS code and trade statistics (Import-Export Data). For more accurate inventory reporting, emission due to lubricant and paraffin waxes are reported separately. Emission due use of paraffin waxes was not reported in NIR earlier. Due to non-availability of activity data with relevant department for Category 2C1 (Iron and Steel Production), emissions are reported based on projected production data as per Index of Industrial Production (IIP) values published by Statistics Mauritius.</p> <p>Lime production has been ceased in RoM since 2016, and hence these emissions are not included in BTR.</p>
AFOLU	<p>GHG removals from forestry was carried out using country specific Above Ground Biomass values.</p>	<p>Default values were considered for Above Ground Biomass.</p>
Waste	<p>For calculating emissions from domestic / commercial wastewater, the per capita protein consumption was taken from FAO Statistics during the previous NIR preparation</p>	<p>The values for protein consumption for Mauritius have been restated and emissions are recalculated in current inventory preparation as per the values available on the FAO Statistics for the years 2010 to 2016.</p>



Appendix



Appendix 1: Common reporting tables for the electronic reporting of the national inventory report of anthropogenic emissions by sources and removals by sinks of greenhouse gases

Submitted separately as zip file.

Appendix 2: Common tabular formats for the electronic reporting of the information necessary to track progress in implementing and achieving the NDC and information on financial, technology development and transfer and capacity-building support provided and mobilized

Submitted separately as zip file.

List of abbreviations

AD	Activity data
AFOLU	Agriculture, Forestry and Other Land Use
AfD	Agence Française de Développement
AISCC	African Island States Climate Commission
AR	Assessment Report
BAU	Business as Usual
BTR	Biennial Transparency Report
CBIT	Capacity-building Initiative for Transparency
CCA	Climate Change Act
CEB	Central Electricity Board
CH ₄	Methane
CMA	Conference of the Parties serving as the meeting of the parties to the Paris Agreement
CO ₂	Carbon dioxide
CTCN	Climate Technology Centre and Network
CTF	Common tabular format
DCC	Department of Climate Change, Mauritius
EEDI	Energy Efficiency Design Index
EEMO	Energy Efficiency Management Office
EEZ	Exclusive Economic Zone
EF	Emission factor
EIA	Environmental impact assessment
EU	European Union
EUR	Euro
FAO	Food and Agriculture Organization
FAREI	Food and Agricultural Research and Extension Institute
GCCA	Global Climate Change Alliance
GDP	Gross Domestic Product
GEF	Global Environment Facility
GFC	Green Climate Fund
Gg	Gigagrams
GGWI	Great Green Wall Initiative
GHG	Greenhouse Gas
GWh	Gigawatt hours
GWP	Global warming potential
HFC	Hydrofluorocarbon

IOC	Indian Ocean Commission
IPCC	Intergovernmental Panel on Climate Change
IPDM	Integrated Pest and Disease Management
IPNS	Interplanetary Naming System
IPPU	Industrial Processes and Product Use
ITMO	Internationally Transferrable Mitigation Outcomes
km	kilometer
LULUCF	Land Use, Land-Use Change and Forestry
MARENA	Mauritius Renewable Energy Agency
MEL	Metro Express Ltd
MEPS	Minimum Energy Performance Standard
MEPU	Ministry of Energy and Public Utilities
MoESWMCC	Ministry of Environment, Solid Waste Management and Climate Change
mm	Millimeter
MPG	Modalities, Procedures, and Guidelines
MRV	Monitoring Reporting and Verification
MUR	Mauritian Rupee
MVAC	Mauritius Vulnerability Assessment and Analysis Committee
N ₂ O	Nitrous oxide
NAP	National Adaptation Plan
NCCAPF	National Climate Change Adaptation Policy Framework
NCCMSAP	National Climate Change Mitigation Strategy and Action Plan
NDC	Nationally Determined Contributions
NEF	National Environment Fund
NGO	Non-Governmental Organization
NIR	National Inventory Report
ODS	Ozone Depleting Substances
PET	Polyethylene terephthalate
PV	Photovoltaic
QA	Quality assurance
QC	Quality control
RAC	Refrigeration and Air conditioning
RE	Renewable energy
RoM	Republic of Mauritius
RRA	Rodrigues Regional Assembly
SADC	Southern African Development Community
SDG	Sustainable Development Goals
SEEMP	Ship Energy Efficiency Management Plan

List of abbreviations

SIDS	Small Island Developing States
SMEs	Small and Medium Enterprises
TNC	Third National Communication
toe	tonnes of oil equivalent
TWG	Technical Working Group
UNCCD	United Nations Convention to Combat Desertification
UNEP	United Nations Environment Programme
UNEP CCC	United Nations Environment Programme - Copenhagen Climate Centre
UNFCCC	United Nations Framework Convention on Climate Change
UoM	University of Mauritius
USD	United States Dollar
WMA	Wastewater Management Authority
WB-GFDRR	World Bank - Global Facility for Disaster Reduction and Recovery

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