



Ministry of Energy and Public Utilities

Importance of Energy Efficiency in the Mauritius Context

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Understanding the Mauritius Context

Location

Island nation in the Indian Ocean, ~2,000 km off the southeast coast of Africa

Area

2,040 sq km

Population

1.2 million

Key Sectors

Tourism, Financial Services, Manufacturing

Mauritius Climate Goals



Paris Agreement Commitments

Mauritius submitted an enhanced Nationally Determined Contribution (NDC) in 2021



Key 2030 Targets

40% reduction in GHG emissions (relative to business-as-usual)

60% of electricity generation from renewable energy

Phasing out coal in the electricity mix by 2030

Increasing Energy Efficiency by 10% by 2030 based on 2019 figures.



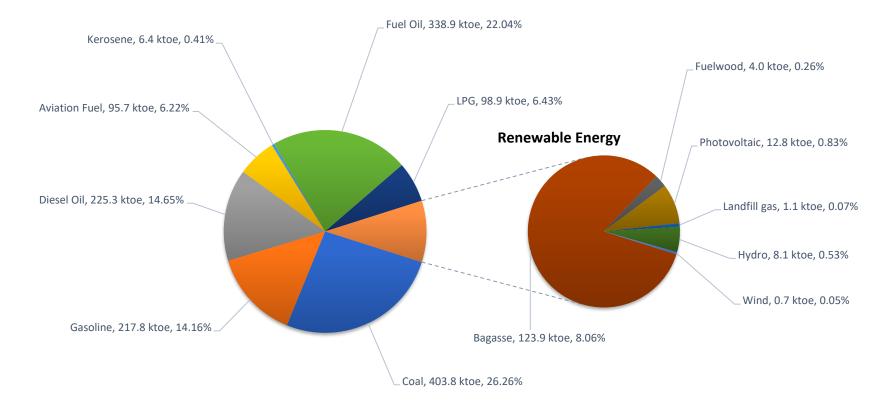
GHG Emission

around 0.01% to the global greenhouse gas emissions



Primary Energy Requirements

• In 2023, the total primary energy requirement amounted to 1,537.4 ktoe



Primary Energy Requirement 2023 in ktoe in 2023 in the Republic of Mauritius

Electricity Production

In 2023:

★ The main energy source for electricity

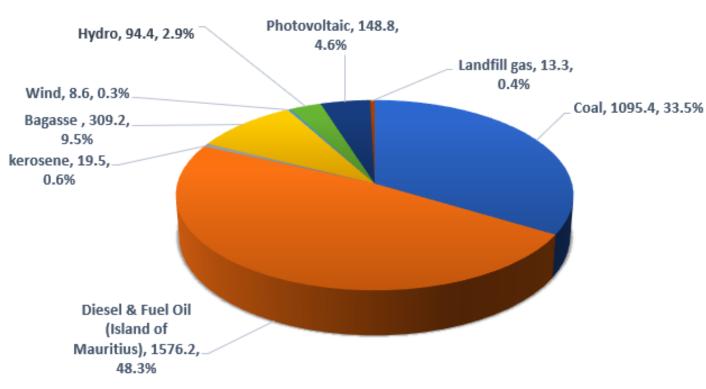
Bagasse, 309,
9.5%

generation was fuel oil and diesel (48.3%) kerosene, 19.5,
0.6%

followed by coal (33.5%)

❖ The share of renewable energy sources accounted for only 17.6%

❖ Total electricity generated increased by4.7% from 3,119.2 GWh to 3,265.5 GWh



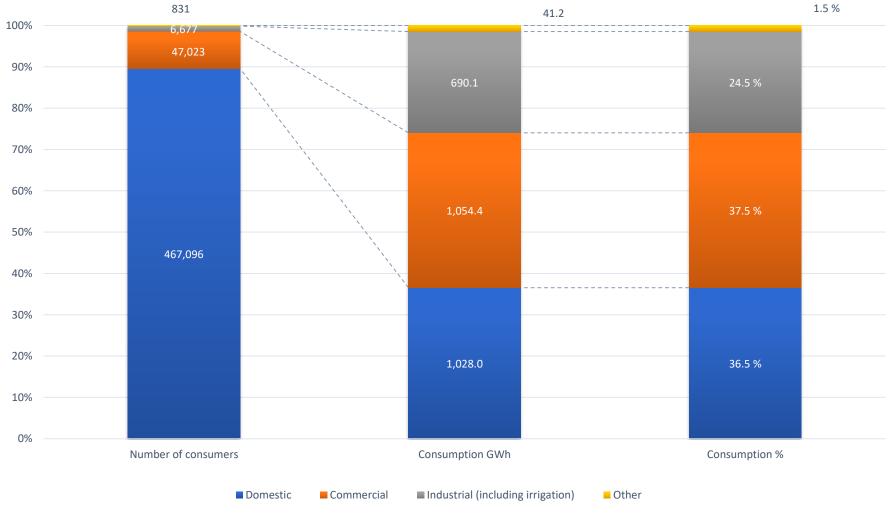
Share of electricity production by energy source in GWh in 2023 in the Republic of Mauritius

Electricity Consumption

Electricity consumption 2023

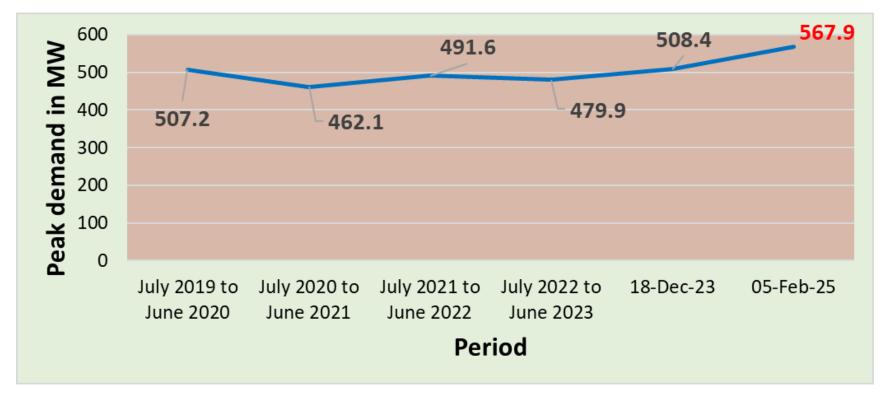
In 2023, total electricity sold was at 2,813.7 GWh

The commercial sector accounted for the largest share (37.5%), followed by the domestic (36.5%), and industrial (24.5%) sectors



Mauritius Peak Demand

Highest peak demand reached in February 2025



Energy Efficiency Landscape in Mauritius

The Energy Efficiency Management Office:

- Established under Energy Efficiency Act 2011
- **❖** Regulatory body for Energy Efficiency matters in Mauritius
- **❖** Mission of the EEMO:
 - 1) Lead the country in Energy Efficiency development and promotion;
 - 2) Facilitate the management of Energy Efficiency in all sectors of the economy including transport, buildings, industry and services, as well as in households; and
 - 3) Foster a culture of Energy Efficiency through awareness, capacity-building and support of initiatives.

Economic Impacts of Energy Efficiency

- Reduced electricity costs for households (Energy Efficient Appliances) and Businesses (Energy Audits)
- Lower Public spending on fuel Subsidies/Imports
- Job creation (Energy Auditors, EE projects Retrofitting, ESCO-market)
- Potential for green financing and investment

Energy Saving Potential – Recommendations of Energy Audits for 60 Sites: 90 000 MWheq/yr and Rs 314 M

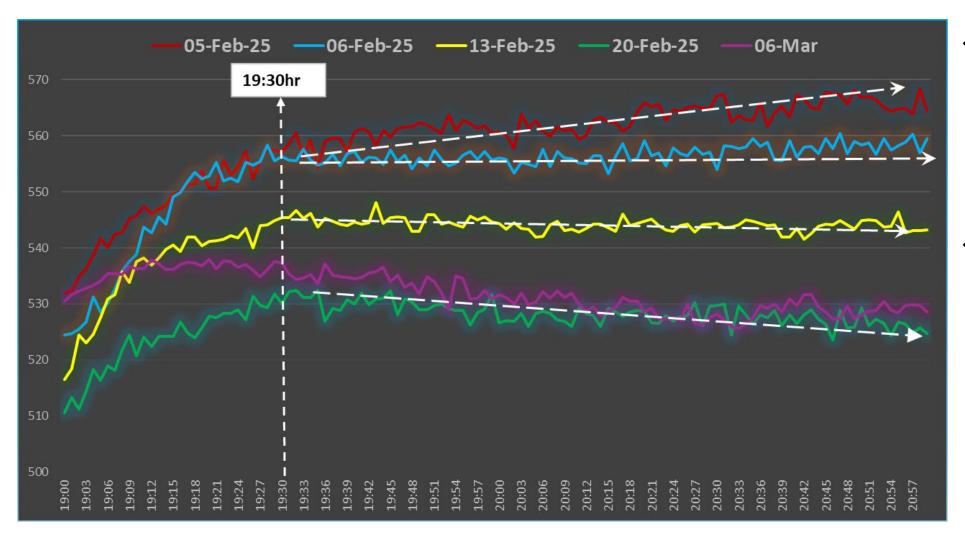
Economic Impacts of Energy Efficiency

Public Institutions - Reducing electricity consumption by 5%

- ❖ On the basis of a monitoring exercise conducted by EEMO, public bodies were requested to submit feedback on progress on a semesterly basis.
- ❖ After comparing the electricity consumption for 2019 and 2023 for all public institutions, a decrease per sector was noted.
- ❖ The total decrease in electricity consumption amounts to 4.7 GWh which represents an overall decrease of around 2% compared with the electricity consumption of 2019.

Sn	Description	Decrease (GWh)	% Decrease
1	Ministries and	3.2	5.3
	related Departments		
2	Local Authorities	0.2	7.4
3	Parastatal and	1.3	0.7
	Government Owned		
	Bodies		

Economic Impacts of Energy Efficiency



- Significant decrease in peak demand observed as the campaign has progressed.
- ❖ Each week, the reduction in peak demand has increased, indicating growing success.

Environmental Impacts of Energy Efficiency

- ❖ Grid Emission Factor: 0.9543 tCo2/MWh
- *Reduced GHG emissions from fossil-based generation
- Improved air quality
- Contribution to climate goals

Energy Saving Potential – Recommendations of Energy Audits for 60 Sites: 80 780
 tCo2/yr

Social Impacts of Energy Efficiency

Improved comfort, health, and efficiency in buildings

Energy efficiency measures lead to better indoor environments, which directly impact the wellbeing of occupants.

Education and awareness-building (All Age Groups)

Energy efficiency initiatives in Mauritius include educational components that reach citizens of all ages. These programs help create a culture of energy consciousness and environmental responsibility throughout the population.





Way Forward for Energy Efficiency in Mauritius

- ➤ Minimum Energy Performance Standards for Refrigerators, Lightings etc...
- > Framework for Energy Performance Contracting in Mauritius;
- Setting up the ESCO market;
- > De-Risking Facility for Energy Performance Contracting in Mauritius
- Regional Roadmap for Energy Efficiency at Cote d'Or Smart City
- ➤ Energy Efficiency Building Codes

Let's Keep Being Energy-Efficient



Thank You for your Attention

