GUYANA ENERGY REPORT CARD (ERC) FOR 2021









INTRODUCTION

This document presents Guyana's Energy Report Card (ERC) for 2021.

The ERC provides an overview of the energy sector performance in Guyana. The ERC also includes energy efficiency, technical assistance, workforce, training and capacity building information, subject to the availability of data.

This ERC includes data and information that was provided by government ministries, agencies, or departments, with responsibility for energy, utilities, and statistical offices.

The data collected was supplemented by internet research, author calculations and inferences.

This data is a collection from a variety of public sources and, as such, is for general information only. It is not intended for decision-making purposes, and therefore reliance placed on the information herein is strictly at the user's risk.







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Green State Development Strategy: Vision 2040 (2019)^{1[5]}

National Development Plan/ **Overall Country Development Strategy**

National Energy Policy (1994)^[6] Draft National Energy Policy of Guyana - Report 2 - Green Paper (Revision of 1994 National Energy Policy)^[7]

National Energy Policy



Renewable Energy (RE) Policy

National Determined Contributions (NDC)

11% annually compared to historic levels from the timber industry. *(Note that Guyana is a net carbon sink)^[15]







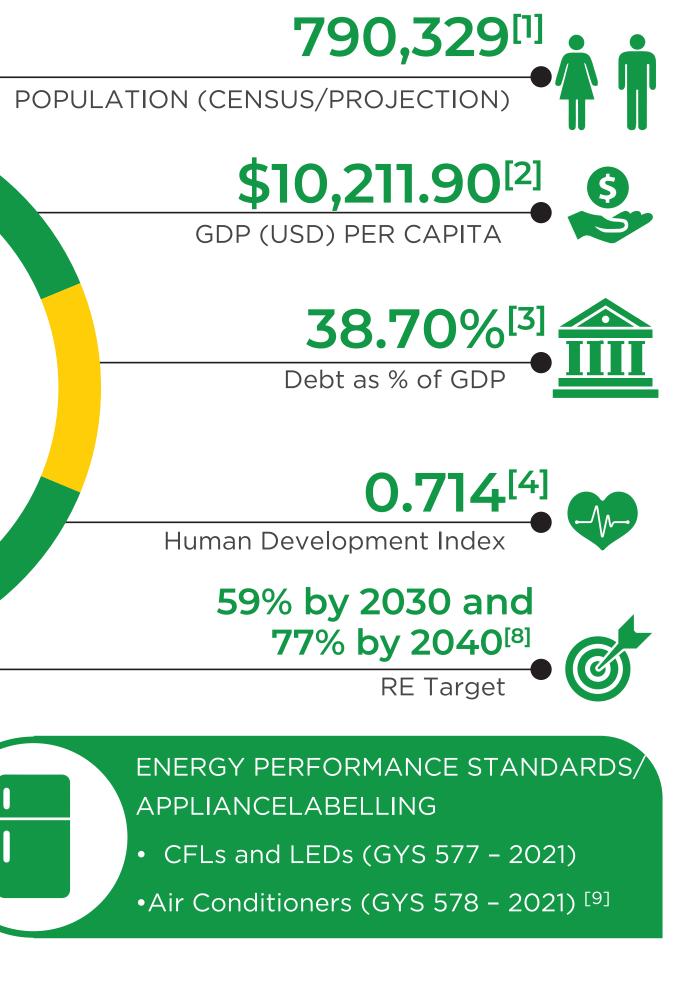


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ENERGY SECTOR SUMMARY

	No. of Persons Employed in Energy Sector	1533 ³
-````_``	Total Installed Conventional Capacity (MW)	200.16
-` `_ `	Total Installed RE	6.97M
÷	Electricity System Losses (%) ⁴	31.67%
	Energy Use (kWh) Per Capita	1,225 [11
	Fuel and Oil Imports as % of GDP	18.90 ^{[1}
	Oil Imports as % of GDP	Not Ava
(Jana)	Electric Vehicle Stock	116 ^[13]
	Climate Change Policy	Draft Nation Change Polic Action Plan 2
	Total Oil Import (BOE) per day	20,303
	Total Oil Export (BOE) per day	11,562 [
4	Energy Intensity (BTU/\$)	Not Ava
	National Repository for Energy Data	Guyana Nati Information



Spanish

Cooperation

Global Network

Regional Sustainat Energy Centres

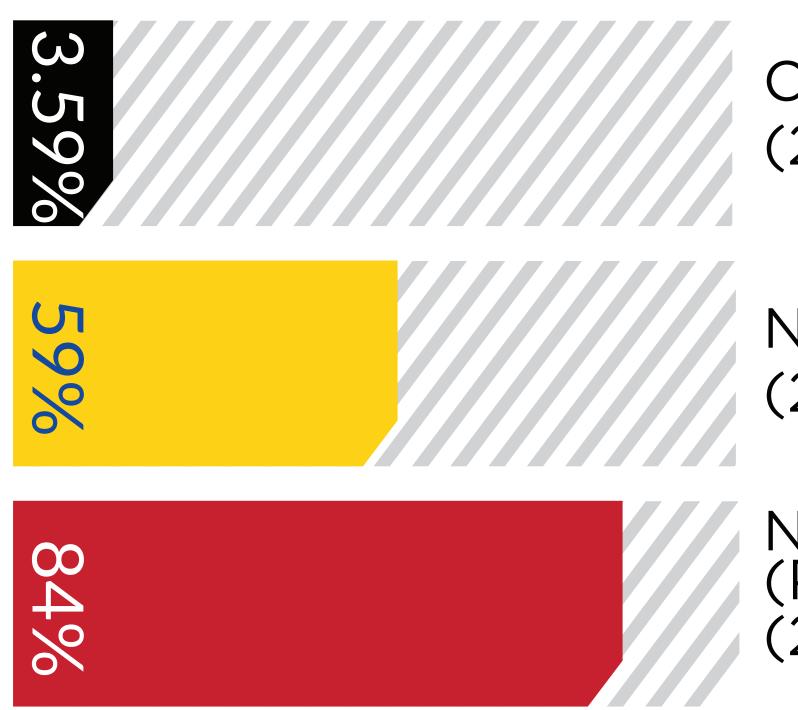
1. In 2022 the Green State Development Strategy: Vision 2040 was replaced with the Guyana's Low Carbon Development Strategy 2030 (2022) [8] 2. The Low Carbon Development Strategy 2030 (2022) is the guiding document towards renewable energy. 3. [10] [11]

4. Losses for Guyana Power and Light, Bosai, Ituni and Lethem. 5. The Low Carbon Development Strategy 2030 (2022) is the guiding document towards climate change replacing the Draft National Climate Change Policy and Action Plan 2020-2030















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ENERGY SECTOR PERFORMANCE

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Performance Against Targets

- **Current Performance** (2021)
- National Target (2030)

National Target (Proposed by CARICOM-C-SERMS) (2027)

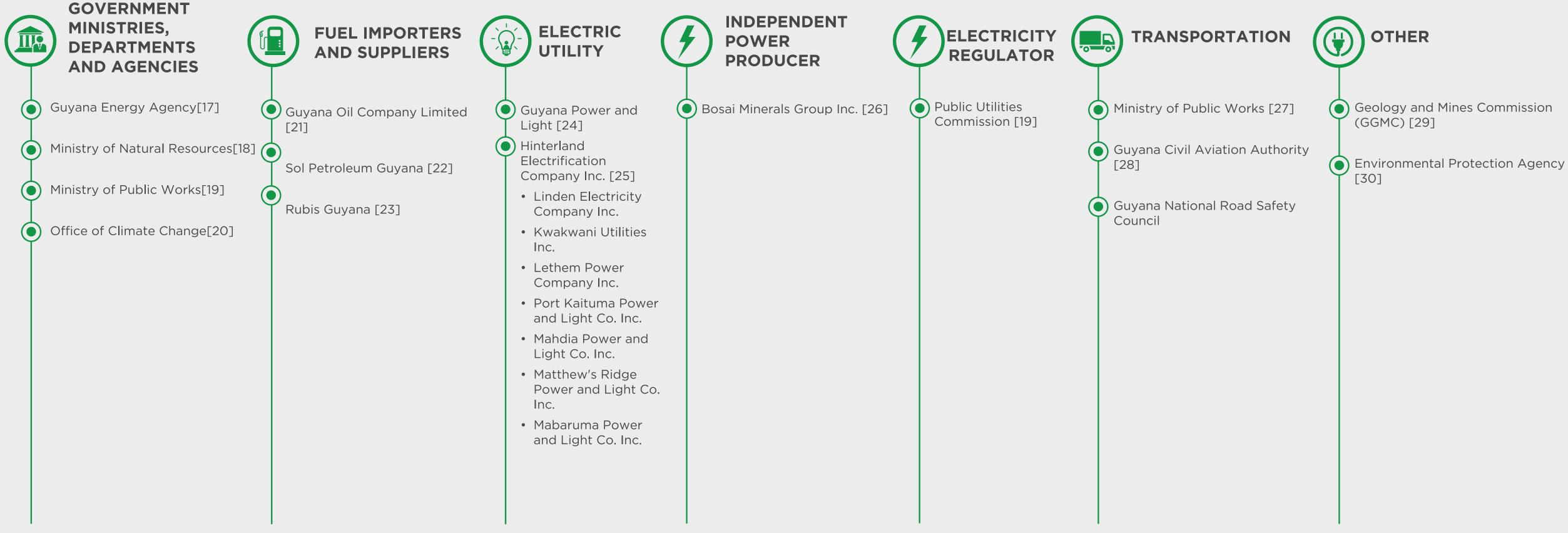


















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KEY ENERGY STAKEHOLDERS









Energy Policy and Energy Action Plan	RE Target ^{6 [8]}	EE Target	Electricity Regulator ^[31]	Net Billing/ Net Metering ^{7 [10]}	Interconnection Policy /Standards	Feed-in-tariff	RE/EE Act
NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED	NOT ESTABLISHED
DRAFT IN PROGRESS	DRAFT IN PROGRESS	DRAFT IN PROGRESS	DRAFT IN PROGRESS	DRAFT IN PROGRESS	DRAFT IN PROGRESS	DRAFT IN PROGRESS	DRAFT IN PROGRE
DRAFT	DRAFT	DRAFT	DRAFT	DRAFT	DRAFT	DRAFT	DRAFT
DRAFT UPDATE	DRAFT UPDATE	DRAFT UPDATE	DRAFT UPDATE	DRAFT UPDATE	DRAFT UPDATE	DRAFT UPDATE	DRAFT UPDATE
COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE	COMPLETE 2017	COMPLETE	COMPLETE







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POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK





6. The RE target was outlined in the Low Carbon Development Strategy 2030 (2022) 7. The Net Billing process commenced in 2019 and is expected to be completed in 2022 [10].

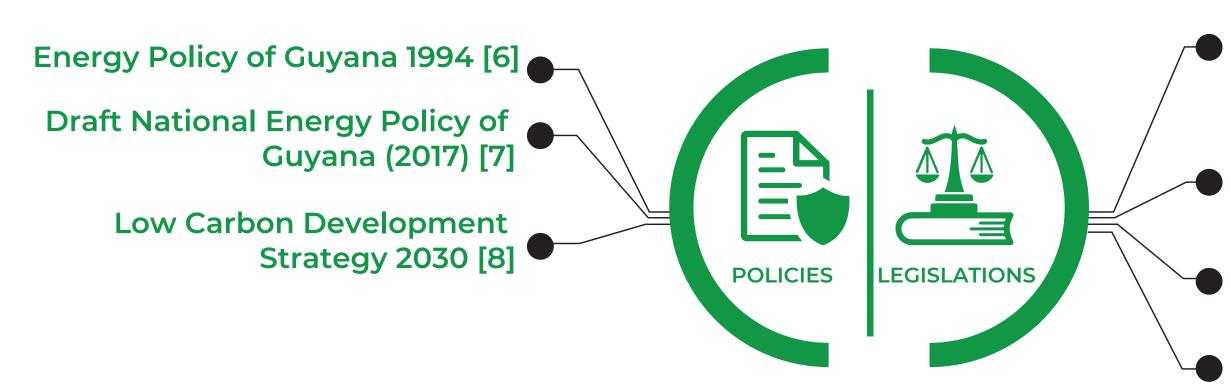
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ISHED ROGRESS



Policies and Legislation Relevant to the Energy Sector









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POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK

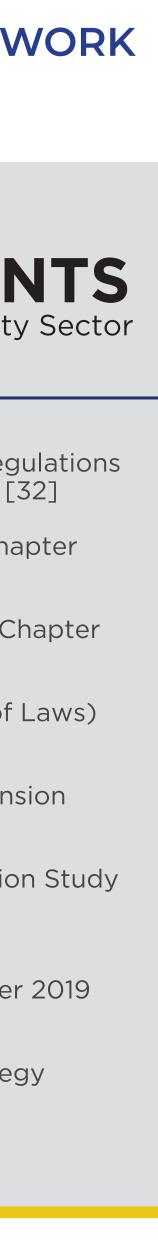
KEY ACHIEVEMENTS PLR Framework Timeline For Electricity Sector

	1988	Hydroelectric Power Act and Reg Chapter 56:03 (Amended 2013) [3
Energy Sector (Harmonisation of Laws)	1999	Electricity Sector Reform Act Cha 57:01 [33]
Act 2002 [35] Guyana Energy Agency	2010	Public Utilities Commission Act Ch 57:01 (Amended 2016) ⁹ [34]
Act Chapter 56:04 (Amended 2004, 2005, 2011) [36]	2002	Energy Sector (Harmonisation of l Act Chapter 57:02 ¹⁰ [35]
Petroleum and Petroleum Products Regulation 2014	2016	Guyana Power Generation Expans Study
Electricity Sector Reform Act	2018	Updated Guyana Power Expansion [37]
(Amended 2010) [39]	2019	Electricity (Exemption from the Requirement for a Licence) Order [38]
	2022	Low Carbon Development Strateg (LCDS) 2030 [8]
	2022	IRRP





9. Repealed 8th August 2016 10. Amends the Hydroelectric Power Act and Guyana Energy Agency Act.







LEGISLATION & REGULATION

Civil Aviation Act Chapter 53:01, 2018 [42]

Guyana Shipping Act Chapter 49:01 1998 [43]

Petroleum and Petroleum Products Regulation 2014

Customs Act Amended 2019 [45]

Value Added Tax Act Amended 2019 [46]







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POLICIES AND LEGISLATION RELEVANT TO THE TRANSPORTATION SECTOR



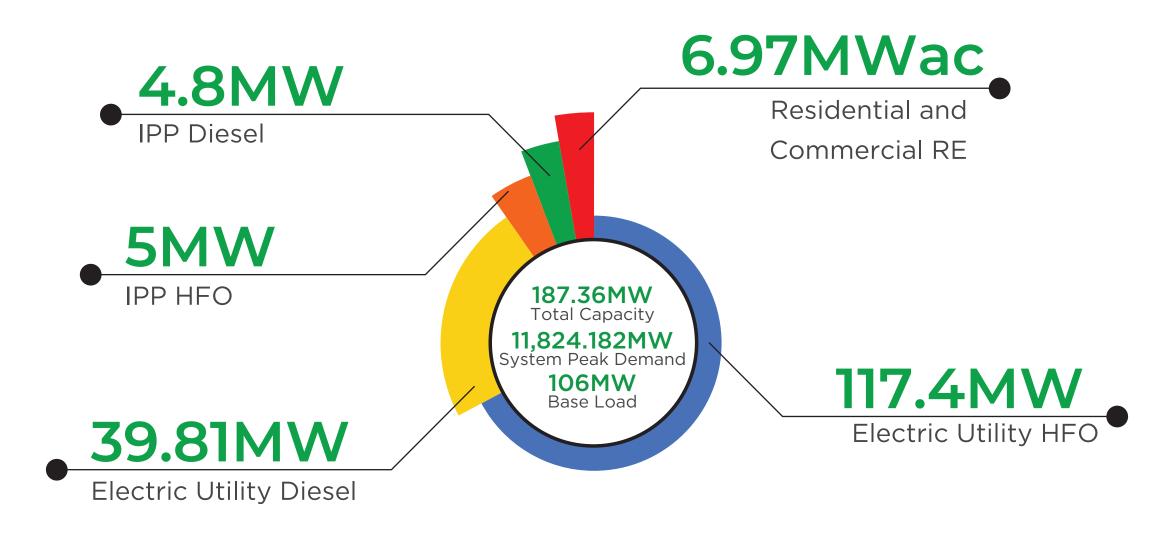


7. Cabinet of the Government of St. Vincent and the Grenadines and VINLEC self-regulate 8. Geothermal Resource Development Act (2015)





Guyana Power and Light Installed Capacity (MW)









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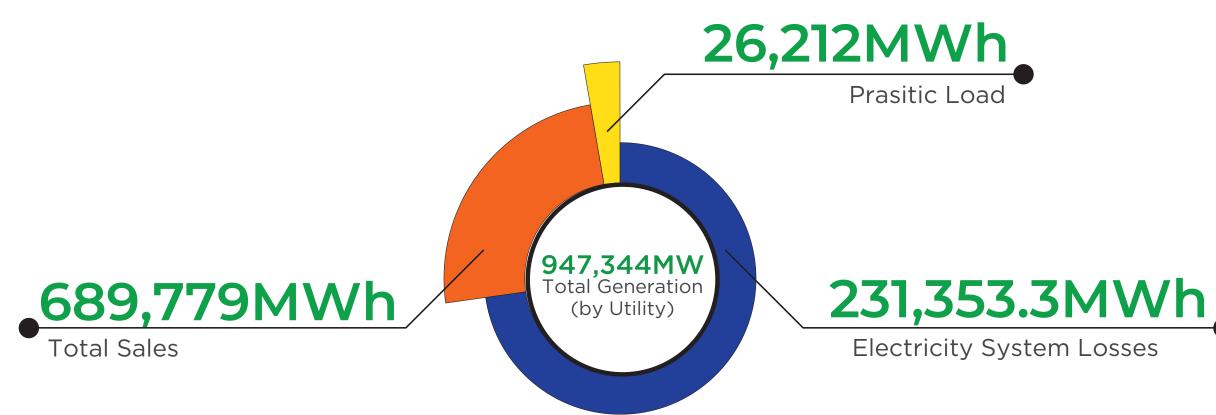


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ELECTRICITY & ENERGY EFFICIENCY^[16] ^[11] ^[10]

Guyana Power and Light Energy Consumption (MWh)







9. The energy data presented represents the islands of St. Vincent, Bequia, Union Island, Mayreau and Canouan2019

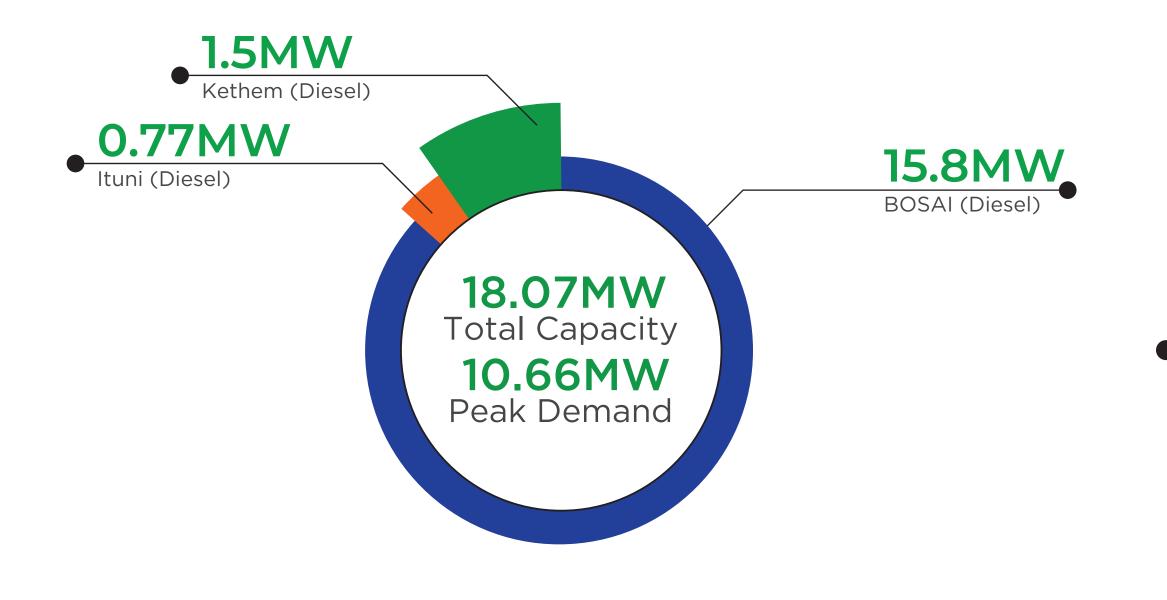








Hinterland Electrification Company Inc. Installed Capacity (MW)







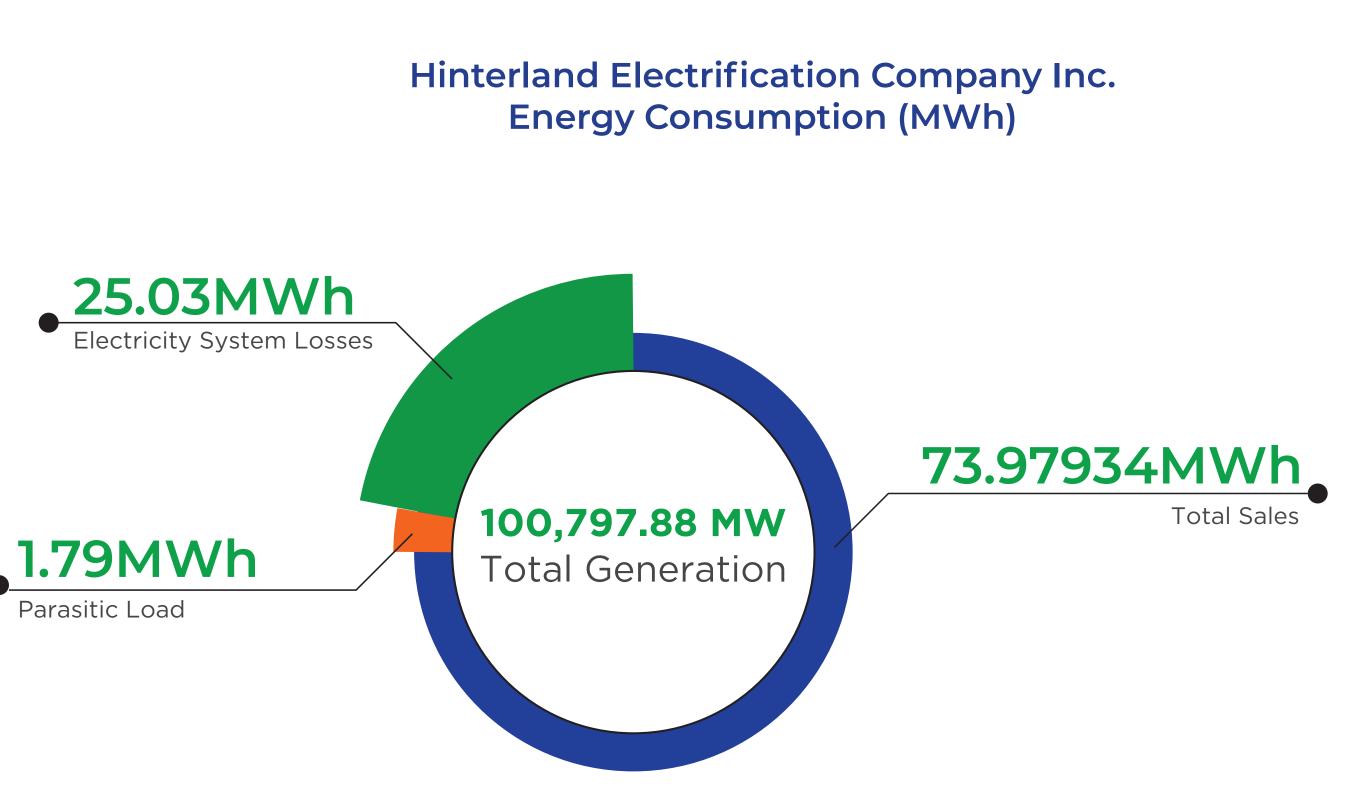




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HINTERLAND ELECTRIFICATION COMPANY INC.^{11 12 13 14}







11. Bosai is an independent power producer.

12. The Hinterland Electrification Company Inc. data includes BOSAI, Linden Electricity Company Inc., Kwakwani Utilities Inc., Lethem Power Company Inc., Port Kaituma Power and Light Co. Inc., Mahdia Power and Light Co. Inc., Matthew's Ridge Power and Light Co. Inc., Mabaruma Power and Light Co. Inc. and Ituni

13. No data was provided for Kwakwani Utilities Inc. and Mahdia Power and Light Co. Inc.
14. The Hinterland Electrification Company Inc. generated 11.95 GWh of electricity during 2021 and the Bosai generated 93.70 GWh with an installed capacity of 15.80 MW. The Hinterland Electrification Company Inc. excluding for Kwakwani Utilities Inc. and Mahdia Power and Light Co. Inc. and Matthew's Ridge Power and Light Co. Inc. had an installed capacity of 4.56 MW.





Renewable Energy Capacity (MW)









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Non-Government

Government

ELECTRICITY & ENERGY EFFICIENCY

Electricity Tariffs: Guyana Power and Light Company ^[47]

CATEG	ORY	FIXED RATE/ DEMAND CHARGE (USD)	ENERGY RATE (USD)
RESIDENTIAL: LIFELINE	A <75 kWh	1.64	0.18
RESIDENTIAL	A >75 kWh	1.68	0.20
COMMERCIAL	В	11.85	0.27
INDUSTRIAL	С	8.45	0.24
	D	8.45	0.23
STREETLIGHTS	E		0.20

CATEG	ORY	FIXED RATE/ DEMAND CHARGE (USD)	ENERGY RATE (USD)
RESIDENTIAL: LIFELINE	GA <75 kWh	1.85	0.22
RESIDENTIAL	GA >75 kWh	1.85	0.23
COMMERCIAL	GB	12.37	0.28
INDUSTRIAL	GC	8.83	0.28
	GD	8.83	0.24
STREETLIGHTS	GE		0.21





10. A monthly fuel surcharge rate is applied to the final monthly bill for all rate classes and 16% VAT on all units consumed over 150 kWh for domestic customers while 16% VAT on all units for all other rate classes. 11. Rate per month 12. Rate per month







CARICOM

Electricity Tariffs: Hinterland Electrification Company Inc [10]

COMPANY	CONSUMPTION (KWh)	TARIFF (US\$/KWh)
	≤15	0
LETHEM POWER CO. INC.	16 to 50kWh	0.28
	≥51	0.38
	≤15	0
MAHDIA POWER & LIGHT INC.	>15	0.47
PORT KAITUMA POWER &	≤15	0
LIGHT INC.	>15	0.47
	Residential	0.02
LINDEN ELECTRICITY CO. INC.	Commercial	0.05
	Pensioners ≤300	0
	Electricity supply is free, except for four customers	0
KWAKWANI UTILITIES INC.	Western Union, Digicel, GT&T, & Rusal	0.28
MATTHEW'S RIDGE POWER & LIGHT INC.	≤15	0
	>15	0.47











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ELECTRICITY & ENERGY EFFICIENCY











Technical Assistance Projects

	 Donor Funding and Technical Assistance Landscape
2021 - 2023	33MWp of Solar PV with Battery Energy Storage Systems in Region 2, 5, 6 & 10 under the Guyana Utility Scale Solar Photovoltaic Program (GUYSOL)
2021 - 2022	750 kWp Wakenaam Solar PV + 1151 kWh Battery Energy Storage System Project
2021	Renewable Energy Actions in the Energy Matrix in Guyana
2019	Strengthening the Technical Functions of the Department of Energy
2018	Strategic Communications & Knowledge Sharing Support for Guyana's Oil & Gas Sector
2018	Strengthening the Capacity of the Department of Energy
2018	Energy Matrix Diversification and Institutional Strengthening of the Department of Energy (EMISDE)
2018	EcoMicro - IPED Green Finance for Renewable Energy and Energy Efficiency for MSMEs
2014	Power Utility Upgrade Program
2014	Power Utility Upgrade Program
2013	Sustainable Energy Program for Guyana

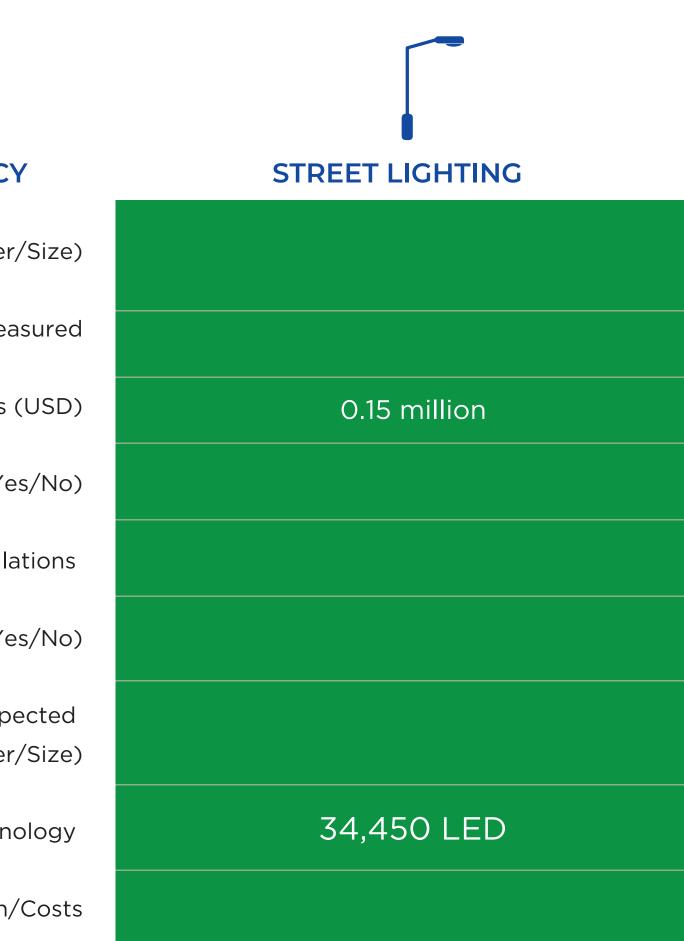
PROJECTS IN THE PIPELINE

		S
Donor Organization & Banks	Technical Assistance	Funding Awards (USD)
Guyana - Norway Partnership The Guyana REDD+ Investment Fund (GRIF)	Provider	
United Arab Emirates The Caribbean Renewable Energy Fund (CREF)	MASDAR Renewable Energy Company	
Inter-American Development Bank		\$1,500,000.00
Inter-American Development Bank		\$606,062.00
Inter-American Development Bank		\$582,682.00
Inter-American Development Bank		\$1,000,000.00
Inter-American Development Bank		\$21,160,000.00
Inter-American Development Bank		\$350,000.00
Inter-American Development Bank		\$37,641,750.00
Inter-American Development Bank		\$26,931,250.00
Inter-American Development Bank		\$5,000,000.00





Energy Efficiency Projects



ENERGY EFFICIENCY

Old/Existing Infrastructure (Number/Size)

Consumption (kW) Ask if estimated or measured

Annual Costs (USD)

Energy Audits (Yes/No)

Energy Efficiency Legislation or Regulations

Energy Service Companies (Yes/No)

Change in Old/Existing Infrastructure Expected in Upcoming Calendar Year (Number/Size)

Expected Change in Technology

Relative Difference in Operating Consumption/Costs







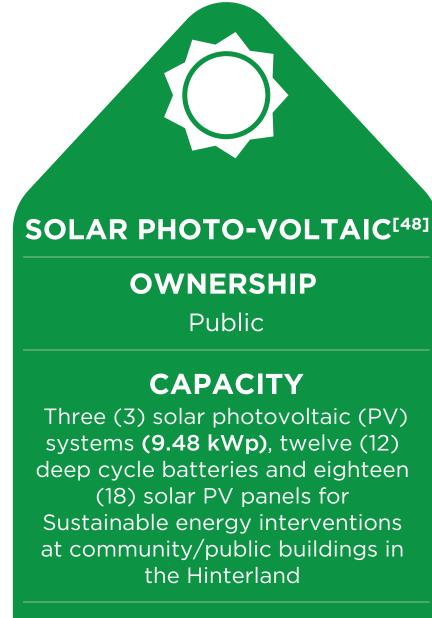


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PROJECTS IN THE PIPELINE

Renewable Energy Projects



DEVELOPMENT PARTNER

United Nations Development Programme (UNDP)

COST (\$GY) \$8,200,000

FUNDING SOURCE United Nations Development Programme (UNDP)

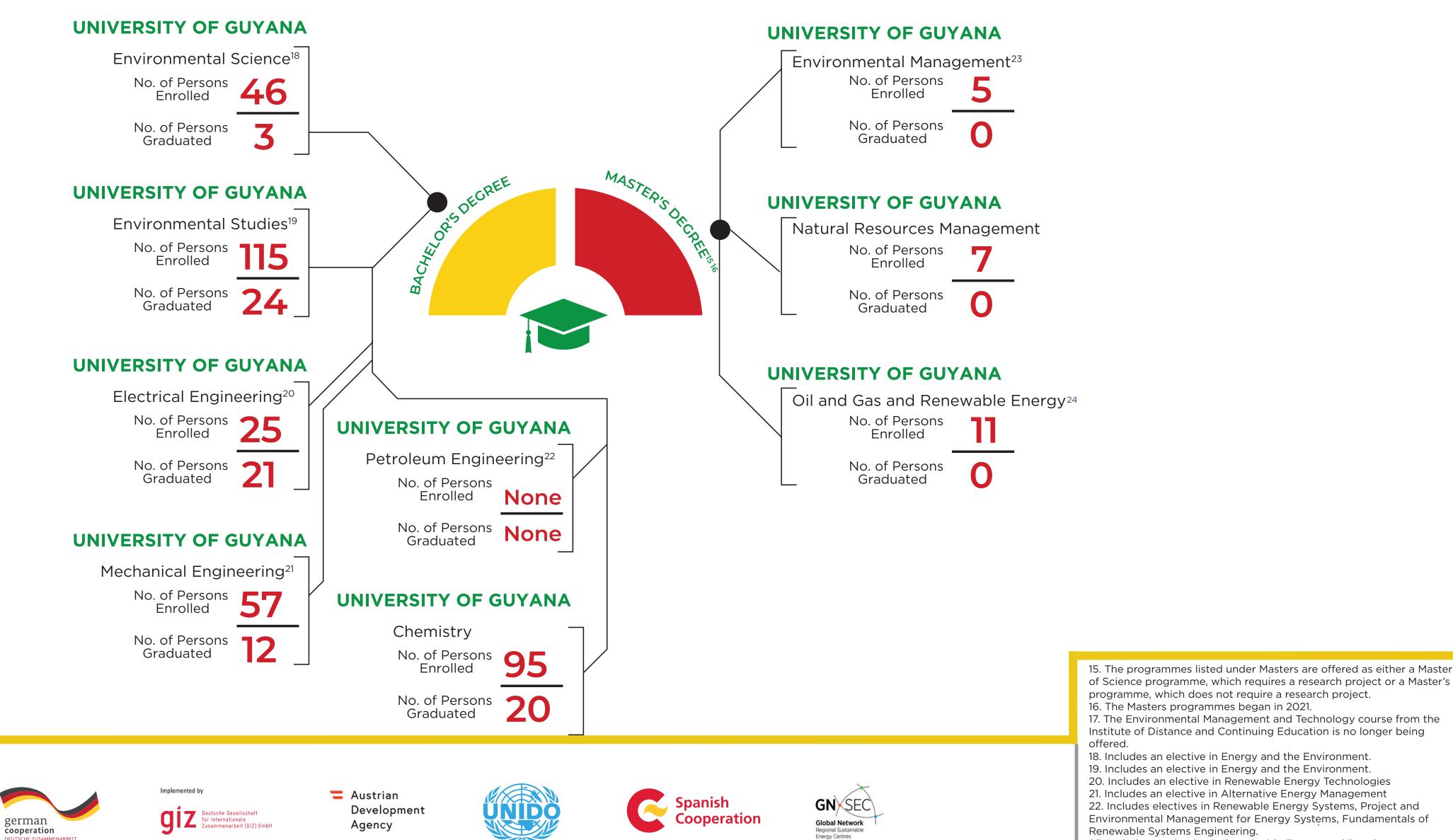




13. This project was completed in 2021 as a component of SEEC.













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TERTIARY PROGRAMMES OFFERED^{15 16 17}

23. Includes an elective in Sustainable Energy and Development 24. Includes electives in Sustainable Energy and Development, Energy Economics, Renewable Energy Simulation



Persons Employed in the Energy Sector

WORKFORCE

There were 1,533 persons reported for the energy sector, however, for the most part they were not disaggregated by gender.







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WORKFORCE ^[10] ^[11]

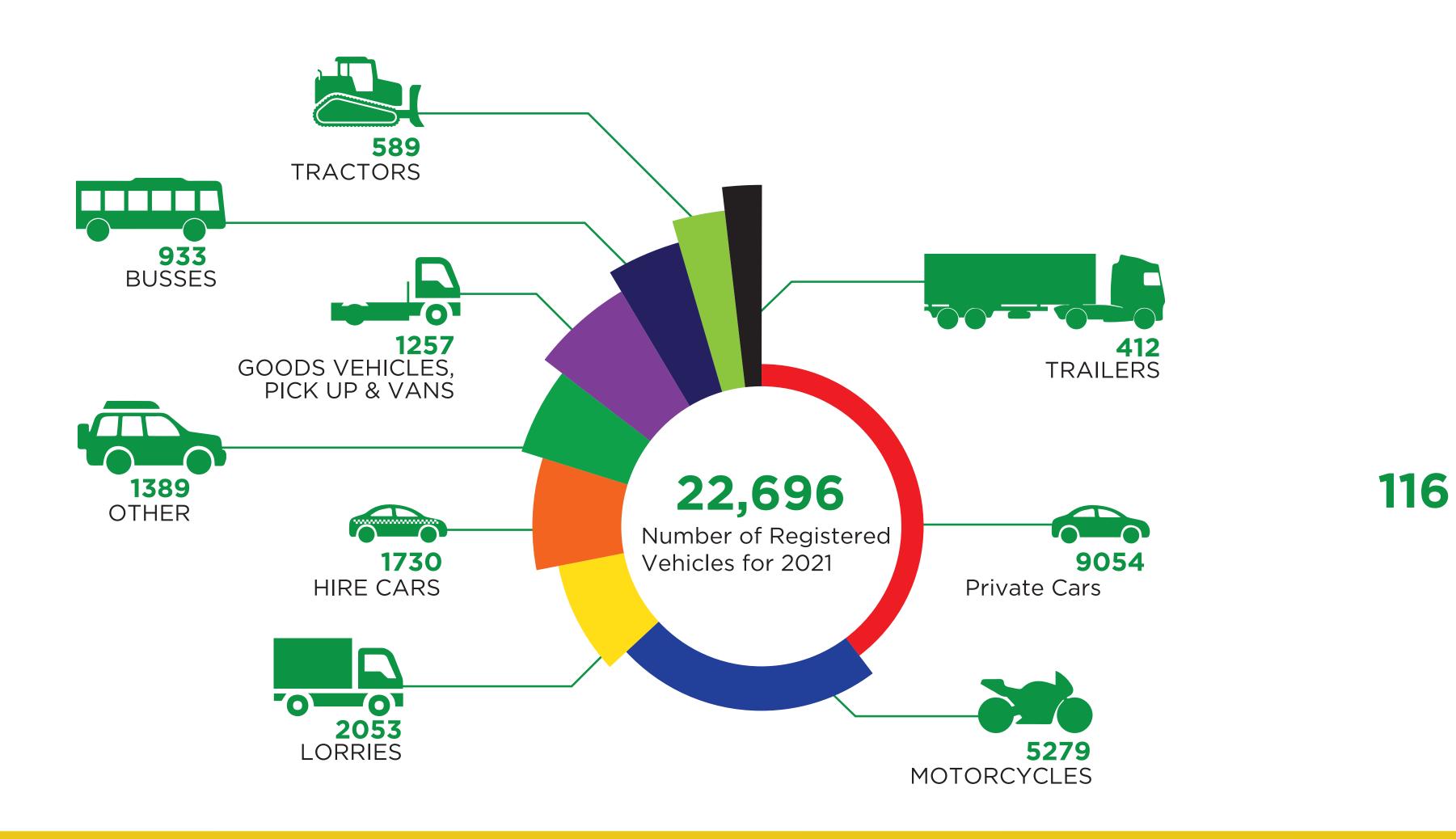








Registered Vehicles













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TRANSPORTATION SECTOR²⁵ [13][49]





25. Other vehicles include Trucks, Jeeps, Articulated Vehicles, Water Tenders, and Hearses

.



Electric Vehicles reported in 2021.



ON OF			
	CARICO	DM	

Climate Change Policy	Draft National Climate (Climate Resilient Strate Low Carbon Developme
National Determined Contributions ^[12]	11% annually compared *(Note that Guyana is a
Emissions Reduction Target ^[12]	70% emission reductio
Priority Sectors for NDC ^[15]	Forestry (including Av Energy
National Communications (NC) to the UNFCCC	Guyana Initial Nationa Commitments to the Guyana Second Natio Framework Conventio







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CLIMATE CHANGE FRAMEWORK

Change Policy and Action Plan 2020-2030^[14] egy and Action Plan for Guyana (2015) [50] ent Strategy (2030)^{26 [8]}

d to historic levels from the timber industry. a net carbon sink)^[15]

ons by 2030^{27 [51]}

voided Deforestation)

al Communication in Response to its UNFCCC^[52] onal Communication to the United Nations ion on Climate Change^[53]

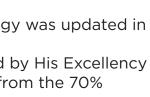




26. The Guyana Low Carbon Development Strategy was updated in 2020

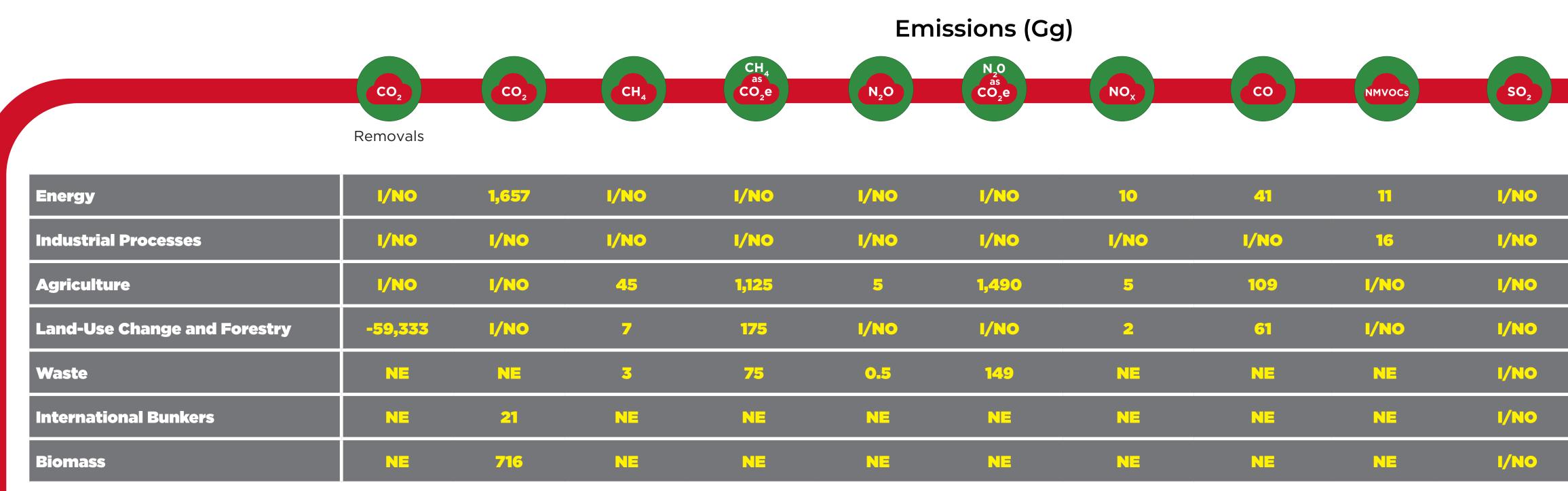
27. The emission reduction target was announced by His Excellency Dr Mohammed Irfaan Ali during COP26, shifting from the 70% emission reduction by 2027.







Summary of Guyana's GHG Emissions and Removals (Gg) for 2004^[53]









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CLIMATE CHANGE FRAMEWORK

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*I/NO: Insignificantly Small or Not Occurring









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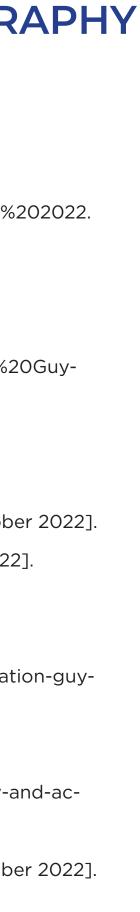
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