CCREEE
CARIBBEAN CENTRE FOR RENEWABLE ENERGY & ENERGY EFFICIENCY

2023

ENERGY REPORT CARD

SURINAME

Introduction

This is the Energy Report Card (ERC) for 2023 for Suriname.

The ERC provides an overview of the energy sector performance, highlighting the following areas:

- Installed Conventional and Renewable Power Generation Capacity
- Annual Electricity Generation, from Conventional and Renewable Plants
- Other Electricity Sector Metrics, such as Losses, Consumption, and Tariffs
- Renewable Energy Targets
- Renewable Energy Resource Potential

The ERC also includes sectoral data and information on policies and regulations; workforce; training and capacity building; and related areas.
The data and information that are available in the ERC were mostly provided by the government ministries, agencies, and departments, that have responsibility for statistics and planning, in general, and the energy sector and electricity subsector including the electric utilities, in particular. The data and information collected was supplemented by desk-based research and, in instances, information was generated from calculations and analyses that were performed by the CCREEE.

Quality Assurance

The collection and treatment of data and information that is produced for the ERC is consistent with the International Recommendations for Energy Statistics (IRES), which provides a comprehensive methodological framework for the collection, compilation, and dissemination of energy statistics in all countries irrespective of the level of development of their statistical system. The ERC is produced in accordance with these performance standards that seek, as far as is possible, to ensure the quality (i.e., objectivity, utility, and integrity) of data and information that it disseminates to the public.
The CCREEE strives for transparency on the information and methods that are used within the production of the ERC, with a view to improve understanding on how the information should be treated and to facilitate reproducibility of the information. Nevertheless, the Centre recognizes that quality may be limited by the nature and source of the data and information disseminated.

Disclaimer

The ERC includes data and information that is contained in a variety of public sources and, though every effort is made to validate the accuracy and validity of the contents, reliance on the information herein is strictly at the user's risk.

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Acknowledgements

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Energy Sector Summary

Population (Mid-Year 2022)	6,249,000 [1]
GDP (USD)	$ 3,800,000,000 [1]
GDP (USD) Per Capita	$ 5,953 [1]
Gross National Income (GNI) Per Capita (USD)	$ 21,520 [2]
Debt as % of GDP	108% [1]
Human Development Index	0.690 [3]
National Development Plan/Overall Country Development Strategy	Meerjaren Ontwikkelingsplan 2022-2026 van de Republiek Suriname (*Multi-Annual Development Plan 2022-2026 of the Republic Suriname*) [4] [1]
National Energy Policy	Suriname's National Energy Policy 2013 – 2033 (Draft) [5]
Renewable Energy (RE) Policy	None
Renewable Energy Target	35% by 2030 [6]
Energy Efficiency Target	None
Total Installed Conventional Capacity (MW)	322.3 MW [9] [2]
Total Installed RE (MW)	197.05 MW [9] [2]
Electricity System Losses (%)	10% [9] [2]

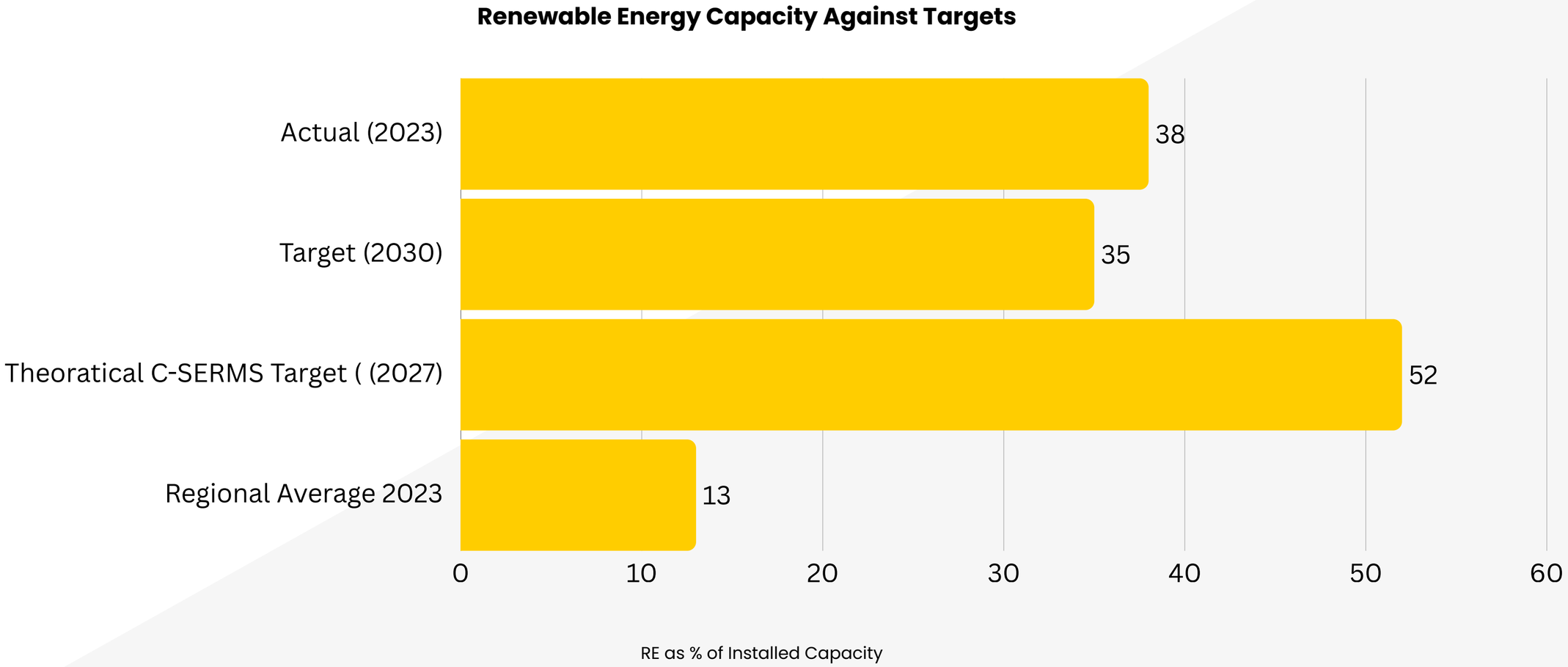
Energy Use (kWh) Per Capita	1,968 kWh [2]
National Repository for Energy Data	sieSURINAME[10]
Climate Change Policy	National Climate Change Policy, Strategy and Action Plan (2014 - 2021) [7]
Nationally Determined (NDC) Summary [6]	Maintaining 93% forest cover; Renewable energy above 25% by 2025 and above 35% by 2030

1 - This document is not available for public viewing.
2 - The information presented reflects the most recent year—2022—for which complete and verified energy data is available.

Energy Sector Summary

Energy Performance Standards/Appliance Labelling [8]
Voluntary Standards • SSB CRS 57: Energy Labelling - Refrigerating Appliances Requirements • SSB CRS 58: Energy Labelling - Compact fluorescent lamps and light emitting diode lamps – Requirements • SSB CRS 59: Energy Labelling - Air Conditioners - Requirements • SSB IEC 62552-1 Household refrigerating appliances – Characteristics and test methods Part 1: General requirements • SSB IEC 62552-2 Household refrigerating appliances – Characteristics and test methods Part 2: Performance requirements • SSB IEC 62552-3 Household refrigerating appliances – Characteristics and test methods Part 3: Energy consumption and volume • SSB ISO 5151:2017 Non-ducted air conditioners and heat pumps — Testing and rating for performance

Energy Sector Performance [9][11] [3]



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Government Ministries, Departments and Agencies

Ministerie van Natuurlijke Hulpbronnen (Ministry of Natural Resources) [12]
- Dienst Electrificatie Voorziening-DEV (Department for Rural Electrification)
- Directoraat Energie (Energy Directorate)

Ministerie van Ruimtelijke Ordening en Milieu (Ministry of Spatial Planning and Environment) [13]

Ministerie van Transport, Communicatie en Toerisme (Ministry of Transport, Communication and Tourism) [14]

Ministerie van Economische Zaken, Ondernemerschap en Technologische Innovatie (Ministry of Economic Affairs, Entrepreneurship and Technical Innovation) [15]

Surinaams Standaarden Bureau (Surinamese Standards Bureau) [23]

Independent Power Producer

State Oil Power Company Suriname (SPCS) [20]
- SPCS Thermal
- SPCS Hydro

Electricity Regulator

Energie Autoriteit Suriname (Suriname Energy Authority) [21]

Fuel Importers & Suppliers

GOw2 Energy Suriname N.V. [16]
Sol Suriname [17]
RUBIS Suriname [18]

Electric Utility

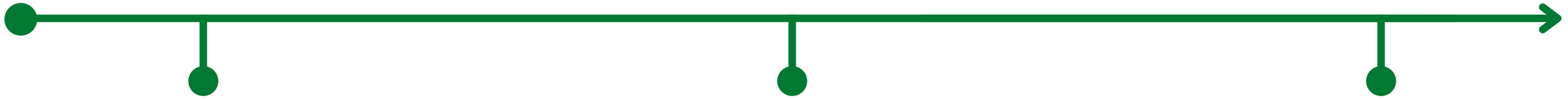
N.V. Energie Bedrijven Suriname (Energy Company Suriname) (N.V. EBS) [19]

Policy, Legal and Regulatory (PLR) Framework

	Year	Status
Energy Policy [5]	2012	Draft
Energy Action Plan		Not Establish
RE Target [6]	2020	In Force
EE Target		Not Established
Electricity Regulator [21]	2016	In Force
Net Billing/Net Metering		Not Established
Interconnection Policy/Standards	2018	Draft
Feed-In-Tariff	2018	Draft
Integrated Resource and Resilience Plan		Draft in Progress
RE/EE Act [30]		Not Established

Policy, Legal and Regulatory (PLR) Framework

Key Achievements: PLR Framework Timeline for Electricity Sub-Sector



2016

Electricity Supply Act [24]

2022

Electricity Sector Plan 2022-2027 [25]

2022

Rural Electrification Planning (REP) (2023- 2033)

Policy, Legal and Regulatory (PLR) Framework

Policies Relevant to the Energy Sector

Year	Name	Status	Description
2003	Suriname's National Energy Policy (2013-2033) [5] [4]	In Force	
2014	2017-2021 Policy Development Plan [26]	In Force	The Policy outlines the framework for the country to become energy secured and urges the diversification of the energy mix. The use of renewable energy to including solar, geothermal and waste-to-energy is encouraged as the country makes a transition in the energy sector. The Policy addresses the electricity sector and the transportation sector in the transition.
2017	Energy Sector Plan 2022 - 2027 [27]	In Force	The Plan evaluates supply resource options in response to demand growth on a comprehensive basis and provides an analysis of the options.

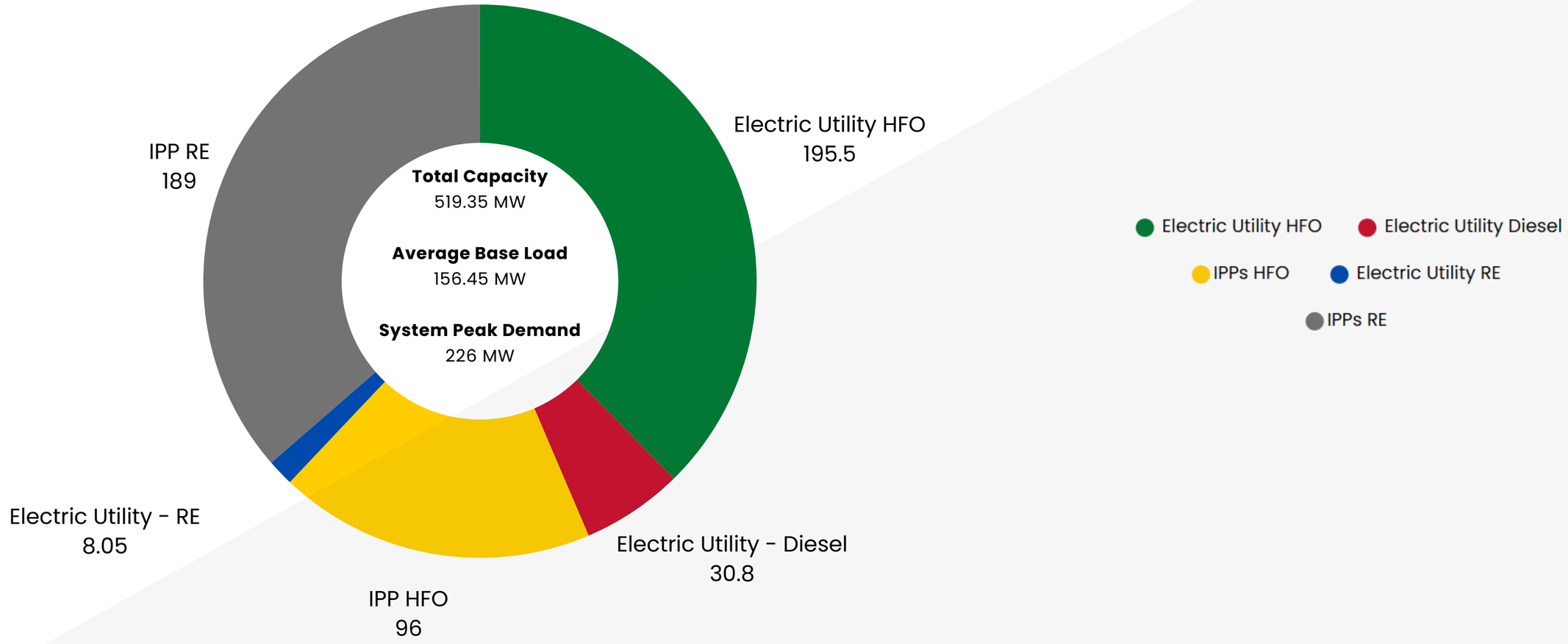
Legislation Relevant to the Energy Sector

Year	Name	Status	Description
1947	Electricity Act [28]	In Force	The Act established the Energy Authority of Suriname for the regulation of the electricity supply sector and introduced renewable energy tenders allowing for the marketisation of renewable energy.

4 - Public Reference no longer available

Electricity and Energy Efficiency [9] [11] [5]

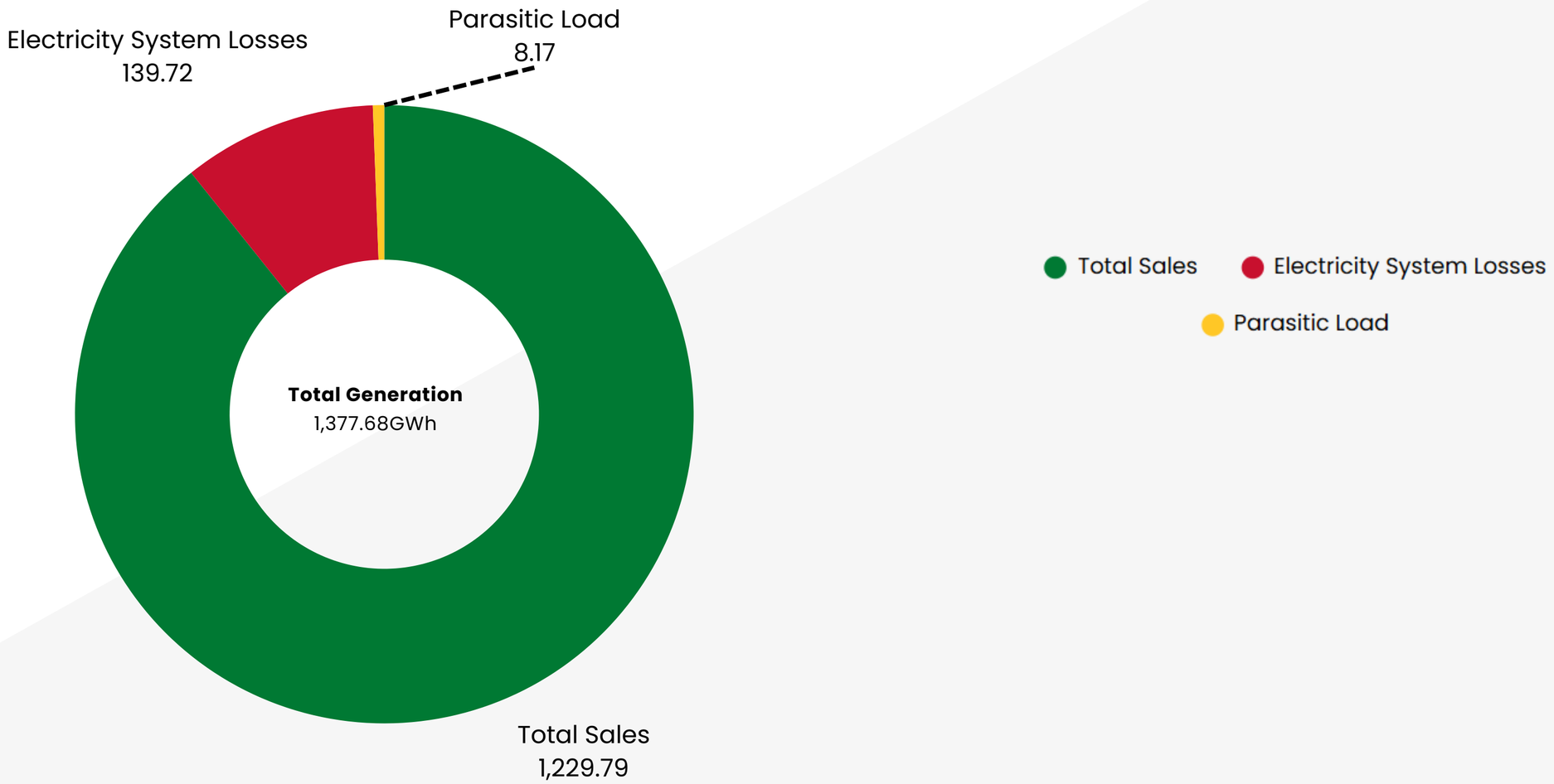
Installed Capacity (MW)



5 - The information presented reflects the most recent year—2022—for which complete and verified energy data is available.

Electricity and Energy Efficiency [9] [11] [6]

Energy Generation (GWh)



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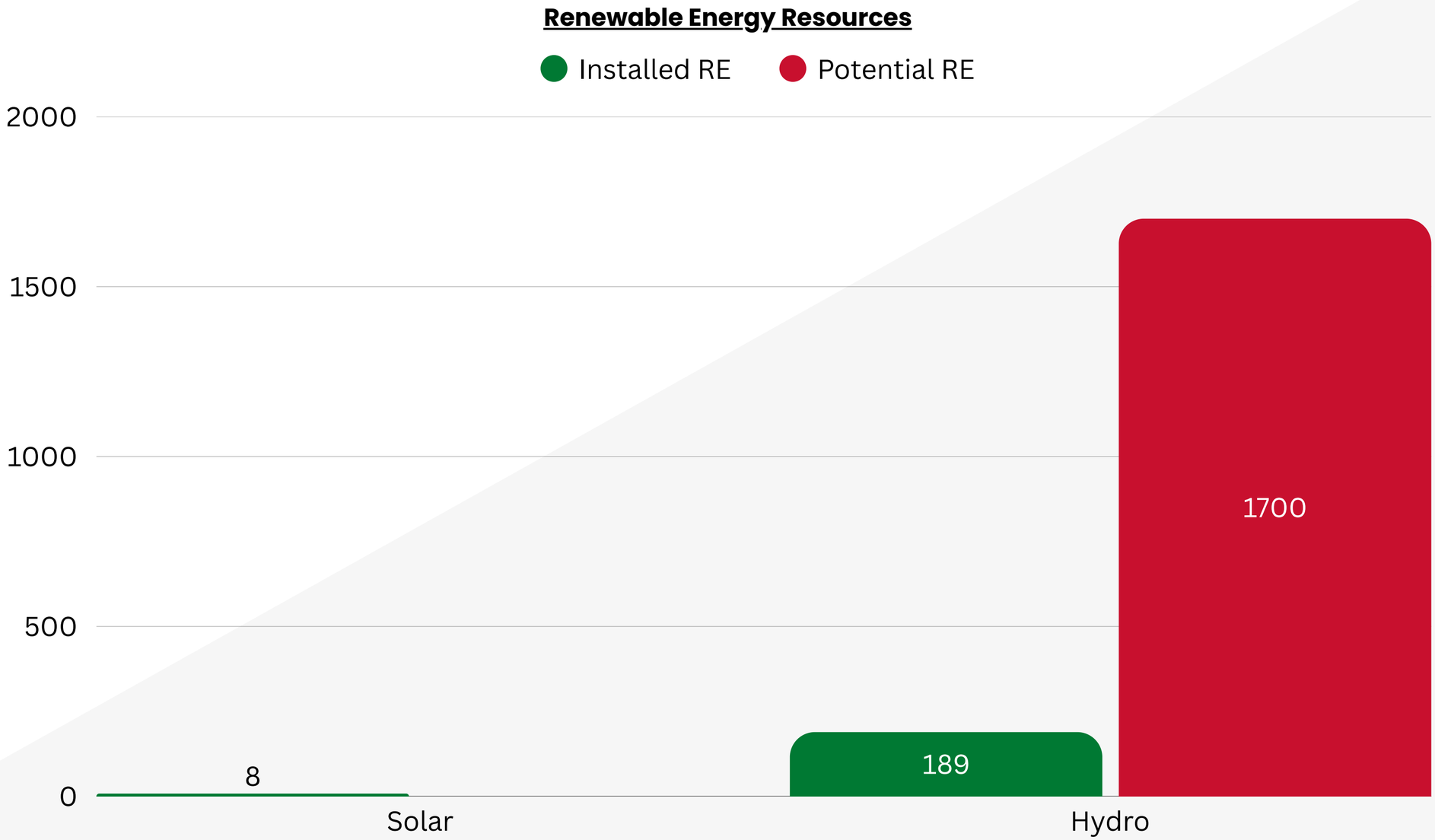

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Electricity and Energy Efficiency

Electricity Tariffs [29]

Monthly Consumption/Demand	Tariff (US$/month)	Tariff (US$/kWh <800 kWh)	Tariff (US$/kWh >800 kWh)
Low Voltage Residential 1 Phase	$ 5.25	$ 0.06	$ 0.09
Low Voltage Residential 2Phase	$ 7.88	$ 0.06	$ 0.09
Low Voltage Residential 3 Phase	$ 10.50	$ 0.06	$ 0.09
		Tariff (US$/kWh <2600 kWh)	**Tariff (US$/kWh >2600 kWh)**
Low Voltage Non-Residential 1 Phase	$ 5.25	$ 0.06	$ 0.09
Low Voltage Non-Residential 2 Phase	$ 10.50	$ 0.06	$ 0.09
Low Voltage Non-Residential 3 Phase	$ 15.75	$ 0.06	$ 0.09
Next 125 units	**Base Tariff (US$/kVA/month)**	**Base Tariff (US$/kVA/month)**	**Base Tariff (US$/kVA/month)**
Low Voltage Non-Residential > 24 kVA	$ 0.58	$ 0.06	$ 0.09
High Voltage Non-Residential	$ 0.68	$ 0.06	$ 0.09
Streetlighting		$ 0.08	

Projects in the Pipeline

Programmes

Programme Name	Executing Agencies	Funding Awards	Funding Source
Support for rural electrification with renewable energy, potable water and telecommunications in Suriname [30]	Ministry of Energy and Business Development	$11,120,000 - Co-financing $3,318,995 - GEF Project Grant $ 14,438,995 - Total	Inter-American Development Bank
Support for the execution, supervision and closing of energy projects in Suriname [31]	Ministry of Energy and Business Development		Inter-American Development Bank

Tertiary Programmes Offered

Education Provider

Polytechnic College Suriname [34]

Bachelor's Degree

- Electrical Engineering

Anton de Kom University of Suriname [32] [33]

Bachelor's Degree

- Electrical Engineering

Masters Degree

- Sustainable Management of Natural Resources

Climate Change Framework

Climate Change Policy	National Climate Change Policy, Strategy and Action Plan (2014 - 2021) [7]
Nationally Determined Contributions Summary [10]	Maintaining 93% forest cover; Renewable energy above 25 % by 2025 and above 35 % by 2030 [6]
Emissions Reduction Target	An estimated 70% of emissions from the following sectors: Forests, energy, agriculture, and transport. [6]
Priority Sectors for NDC [6]	• Forestry • Energy • Transportation • Agriculture
National Communications (NC) to the UNFCCC	Republic of Suriname First National Communication under the United Nations Framework Convention on Climate Change (2005) [34]
	Republic of Suriname Second National Communication to the United Nations Framework Convention on Climate Change (2016) [35]
	Republic of Suriname Third National Communication to the United Nations Framework Convention on Climate Change (2023) [36]

Climate Change Framework

Summary of Suriname's GHG Emissions and Removals (Gg) for 2017

Sources	Emissions Gg CO_2 Equivalent		
	Carbon Dioxide (CO_2)	Methane (CH^4)	Nitrous Oxide (N_2O)
Energy	2,914.2	9.3	25.9
Industrial Processes Product Use	8.5		
Forest and Other Land Use Sector	-17,847	-9	-3.97
Waste	2.5	4	0.03

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