CCREEE
CARIBBEAN CENTRE FOR RENEWABLE ENERGY & ENERGY EFFICIENCY

2023 ENERGY REPORT CARD

ST. LUCIA

Introduction

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

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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If a substantive error is detected after the ERC is disseminated, the CCREEE will make correction and issue an errata notice, or other notification as appropriate. Also, the information contained within the ERC may be revised, after initial dissemination to reflect more complete information or other significant changes in the underlying data. The ERC may, from time to time, include information that is preliminary and is expected to be revised, or information that is revised from previously disseminated versions. In such instances, those cases are clearly noted.

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The CCREEE has established administrative mechanisms to allow persons to seek and obtain, where appropriate, legitimate correction(s) to information maintained and disseminated through the ERC. Any request for corrections should be sent to: energyreportcard@ccreee.org, under the subject: REQUEST FOR CORRECTION TO ERC 2023 FOR ST. LUCIA

Acknowledgements

The CCREEE acknowledges the contributions of the Ministry of Infrastructure, Ports, Physical Development and Urban Renewal, St. Lucia, and thanks Mr. Shurman Francis Energy Officer, in the Ministry, for his supervision of the intern, Taton David, who supported the preparation of the ERC.

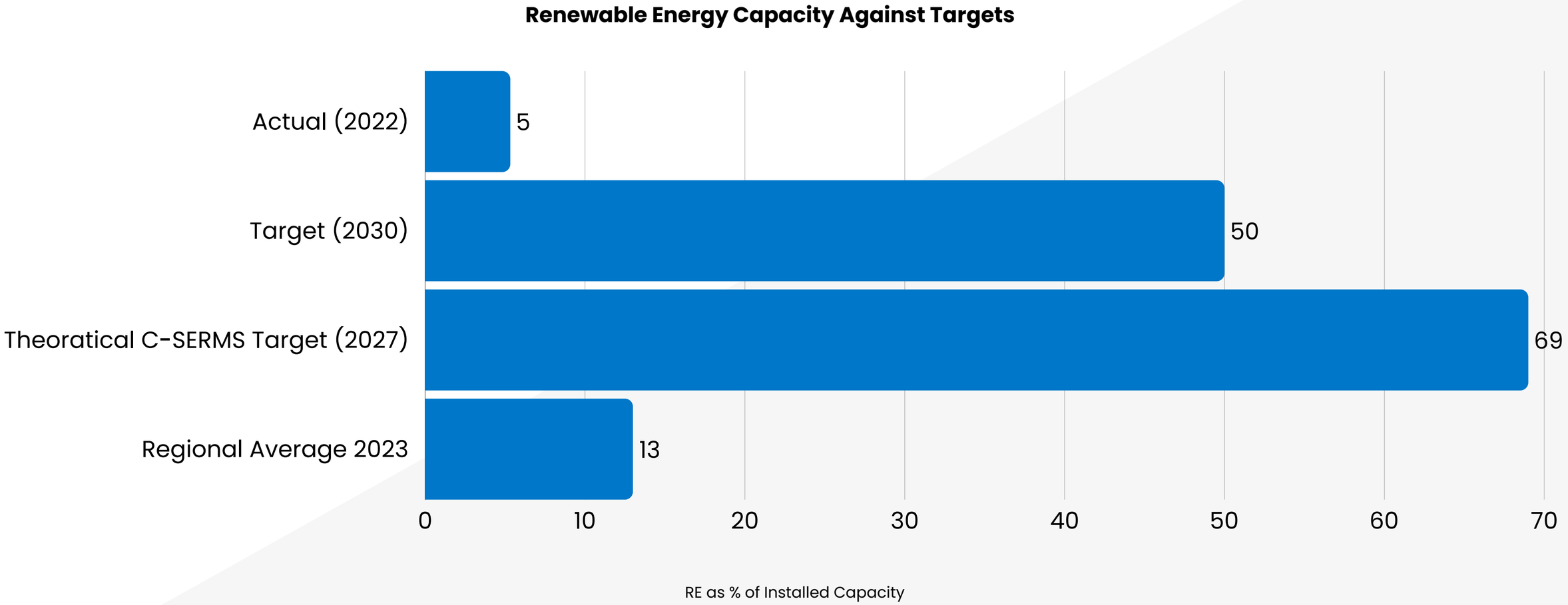
Energy Sector Summary

Population (Estimation)	184,821 [1]
GDP (USD)	$ 2,430,148,148 [1]
GDP (USD) Per Capita	$ 13,412.10 [1]
Gross National Income (GNI) Per Capita (USD)	$ 13,710 [2]
Debt as % of GDP	73% [1]
Human Development Index	0.725 [3]
National Development Plan/Overall Country Development Strategy	Saint Lucia's Medium Term Development Strategy 2020-2023 [4]
National Energy Policy	Saint Lucia National Energy Policy 2023 - 2030 [6] [1]
Renewable Energy (RE) Policy	None
Renewable Energy Target	50% penetration of renewable energy in the electricity mix by 2030 [7]
Energy Efficiency Target	None
Total Installed Conventional Capacity (MW)	88.4 MW [13]
Total Installed RE (MW)	4.98 MW [13]
Electricity System Losses (%)	5.7% [13]
Energy Use (kWh) Per Capita	2,093 kWh

National Repository for Energy Data	None
Climate Change Policy	Saint Lucia's National Adaptation Plan 2018 – 2028 [10]
National Determined Contributions (NDC)	7% Greenhouse Gas (GHG) emissions reduction in the energy sector relative to 2010, by 2030 [11]
Energy Performance Standards/Appliance Labelling [12]	**Core Appliance Labels** • SLNS 90: 2011- Energy Efficiency Labelling – Labelling of Incandescent Lamps. • SLNS 91: 2011- Energy Efficiency Labelling – Labelling of Fluorescent Tubular and Compact Lamps • SLNS 93: 2015- Specification for energy efficiency **Labelling of Air Conditioners** • SLNS 94: 2016- Energy Efficiency Labelling- Refrigerators **Fuel Quality Standards** • SLNS 65: 2012 – Specification for Diesel Fuel • SLNS 76: 2011 – Standard Specification for Liquefied Petroleum Gases • SLNS 67: 2014 – Specification for unleaded Gasoline

1 - The Saint Lucia National Energy Policy 2023 - 2030 replaced the previous 2012 National Energy Policy [5].

Energy Sector Performance [13] [14]



Government Ministries, Departments and Agencies

Ministry of Infrastructure, Ports, Transport, Physical Development and Urban Renewal [15]
- Energy and Public Utilities Division
- Electrical Department
- Transport Department

Ministry of Education, Sustainable Development, Innovation, Science, Technology and Vocational Training [16]
- Sustainable Development and Environment Division

Ministry of Finance, Economic Development and the Youth Economy [17]
- Central Statistical Office of Saint Lucia [18]
- Research and Policy Unit

Development Control Authority

Fuel Importers & Suppliers

Buckeye Partners Limited [19]

Sol EC Limited [20]

RUBIS Caribbean [21]

Electric Utility

Saint Lucia Electricity Services Limited (LUCELEC) [22]

Independent Power Producer

None

Other

Saint Lucia Bureau of Standards [24]

Saint Lucia Customs and Excise Department [25]

Petroleum Dealers Association

Electricity Regulator

National Utilities Regulatory Commission (NURC) [23]

Policy, Legal and Regulatory (PLR) Framework

	Year	Status
Energy Policy [6]	2023	In Force
Energy Action Plan [26]	2023	In Force
RE Target [11]	2023	In Force
EE Target		Not Established
Electricity Regulator [27]	2016	In Force
Net Billing/Net Metering [1]	2010	Draft in Progress
Interconnection Policy/Standards		Draft in Progress
Feed-In-Tariff		Draft in Progress
Integrated Resource and Resilience Plan		Draft in Progress
RE/EE Act [2]	2015	Draft

1 - There was a pilot program that started in 2009 and was successfully completed in 2010. Even though it is not a legislation,-LUCELEC operates this framework

2 - The Energy Efficiency Bill is a draft

Policy, Legal and Regulatory (PLR) Framework

Key Achievements: PLR Framework Timeline for Electricity Sub-Sector

1991

Electricity Supply Act [27]

1994

Electricity Supply (Amendment Act) No. 2 of 2016 [27]

2012

Saint Lucia National Energy Transition Strategy and Integrated Resource Plan [8]

2016

Electricity Supply (Amendment Act) No. 2 of 2016 [27]

2016

National Utilities Regulatory Commission Act No. 3 of 2016 [27]

2017

The Saint Lucia National Energy Transition Strategy (NETS) [8]

2023

Saint Lucia National Energy Policy 2023-2030 [6]

2023

Electricity Supply Act (Revised) [6]

Policy, Legal and Regulatory (PLR) Framework

Policies Relevant to the Energy Sector

Year	Name	Status	Description
2008	Saint Lucia National Vision Plan [28]	In Force	The St. Lucia National Vision Plan highlights the challenges associated with transmission and distribution of electricity in the country and the possible alternatives, which includes renewables, that are available to be used for generation
2012	National Energy Policy [5]	Repealed	The National Energy Policy outlines the best energy practices for St. Lucia as the country attempts to become more energy secure. This energy security goal was outlined to include renewable energy from indigenous sources and diversify sources of petroleum.
2015	Saint Lucia National Energy Transition Strategy and Integrated Resource Plan [8]	In Force	The Plan compares and examines technologies and proposed projects and defines the techno-economic opportunities, pathways, and implications of the energy transition, established through the creation of an Integrated Resource Plan
2023	Saint Lucia National Energy Policy from 2023 to 2030 [6]	In Force	Saint Lucia's updated National Energy Policy aims to build a modern, sustainable energy sector focused on energy security, cost reduction, and local participation. It targets 50% renewable energy in electricity by 2030, reduced GHG emissions, and increased electric vehicle adoption. The policy emphasizes job creation through green energy opportunities and reducing reliance on imported fossil fuels, making the island more resilient to external shocks like oil price volatility and climate change.
2023	Saint Lucia National Energy Policy from 2023 to 2030 Action Plan [6]	In Force	The Action Plan outlines Saint Lucia's strategy to transition to a low-carbon energy sector by 2030, aiming for 50% renewable energy in electricity generation and a 7% reduction in greenhouse gas emissions compared to 2010 levels. It includes 145 actions across seven goals, covering renewable energy development, energy efficiency, clean transport, and financing.

Policy, Legal and Regulatory (PLR) Framework

Legislation Relevant to the Energy Sector

Year	Name	Status	Description
2001	Physical Planning and Development Act [30] (Amended 2005)	In Force	The Physical Planning and Development Act governs any land changes that are to occur within the island of St. Lucia including mining operations for geothermal energy.
2003	Motor Vehicle and Road Traffic Act (Amended 2015 [31] and 2021	In Force	The Act establishes the Licensing Authority as well as governs road usage and operations of the roads of St. Lucia.
2011	Geothermal Resources Development Bill [32]	Draft	A bill drafted to ensure the safe production of geothermal energy, effective land management in the development and use of geothermal resources as well as promoting the use of renewable energy
2016	National Utilities Regulatory Commission Act [27]	In Force	An Act for the establishment of the National Utilities Regulatory Commission for the regulation of utility supply services and related matters.
2016	Electricity Supply Act (First Enacted 1991) [27]	In Force	An Act to amend the Electricity Supply Act to provide for the regulation of Electricity Supply Services by the National Utilities Regulatory Commission. Provisions were made for the National Utilities Regulatory Commission (NURC) to regulate the energy sector and opened the generation of electricity from renewable energy sources to competition.

Policy, Legal and Regulatory (PLR) Framework

Renewable Energy and Energy Efficiency Incentives

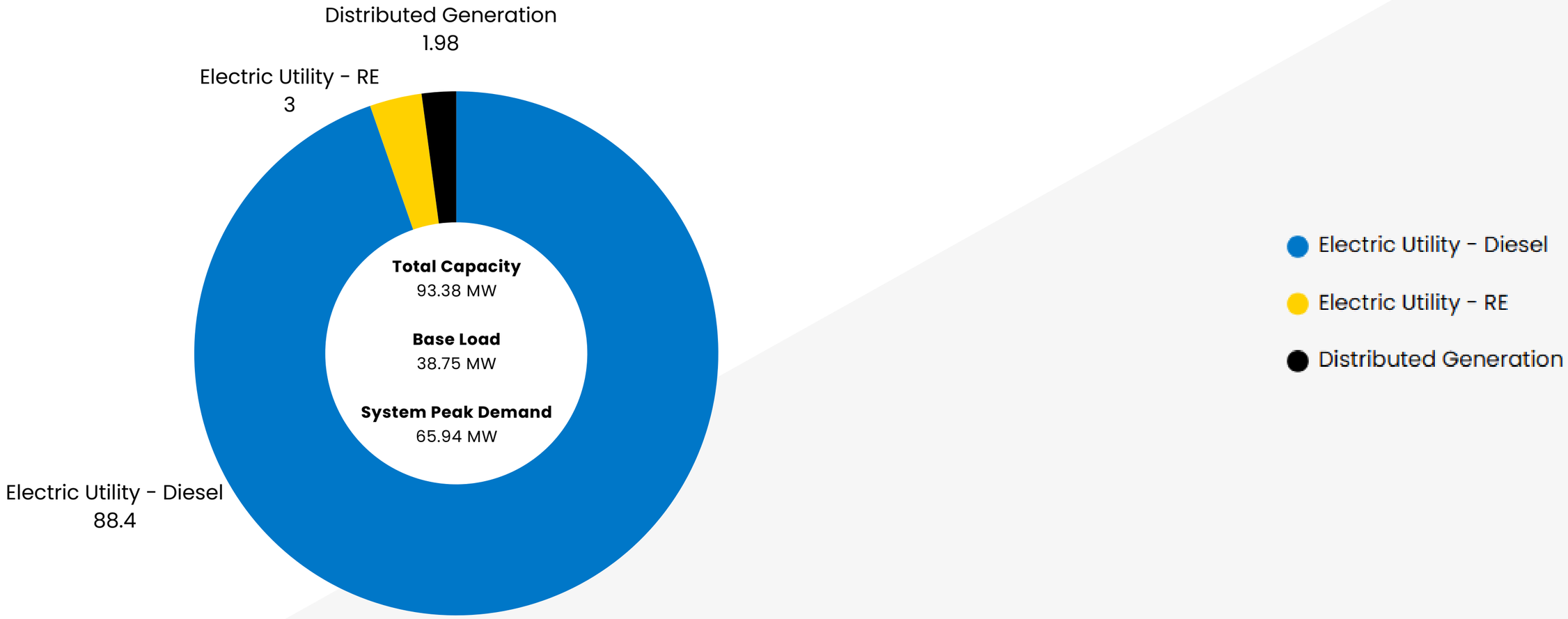
Year	Name	Status	Description
1999	Cabinet Conclusion #464 of 1999 and amended with Cabinet Conclusion #969 of 2020.[3]	In Force	Reduced import duty and reduced excise tax rates for hybrid vehicles and vehicles operating on sustainable fuels.
1999	Cabinet Conclusion #282 of 2014 extended by #186 of 2017 and amended with Cabinet Conclusion #5 of 2019 effective until 30th November 2023 [4]	In Force	Import duty exemptions on apparatus/machinery designed to produce motive power, heat, light, or electricity through the utilization of renewable sources of energy as approved by the Ministry responsible for sustainable development and on apparatus designed to conserve on the use of electricity and other sources of energy, as approved by the Ministry responsible for sustainable development.

3 - The 2017 and 2019 amendments are no longer available for public reference

4 - The 2020 amendment is no longer available for public reference.

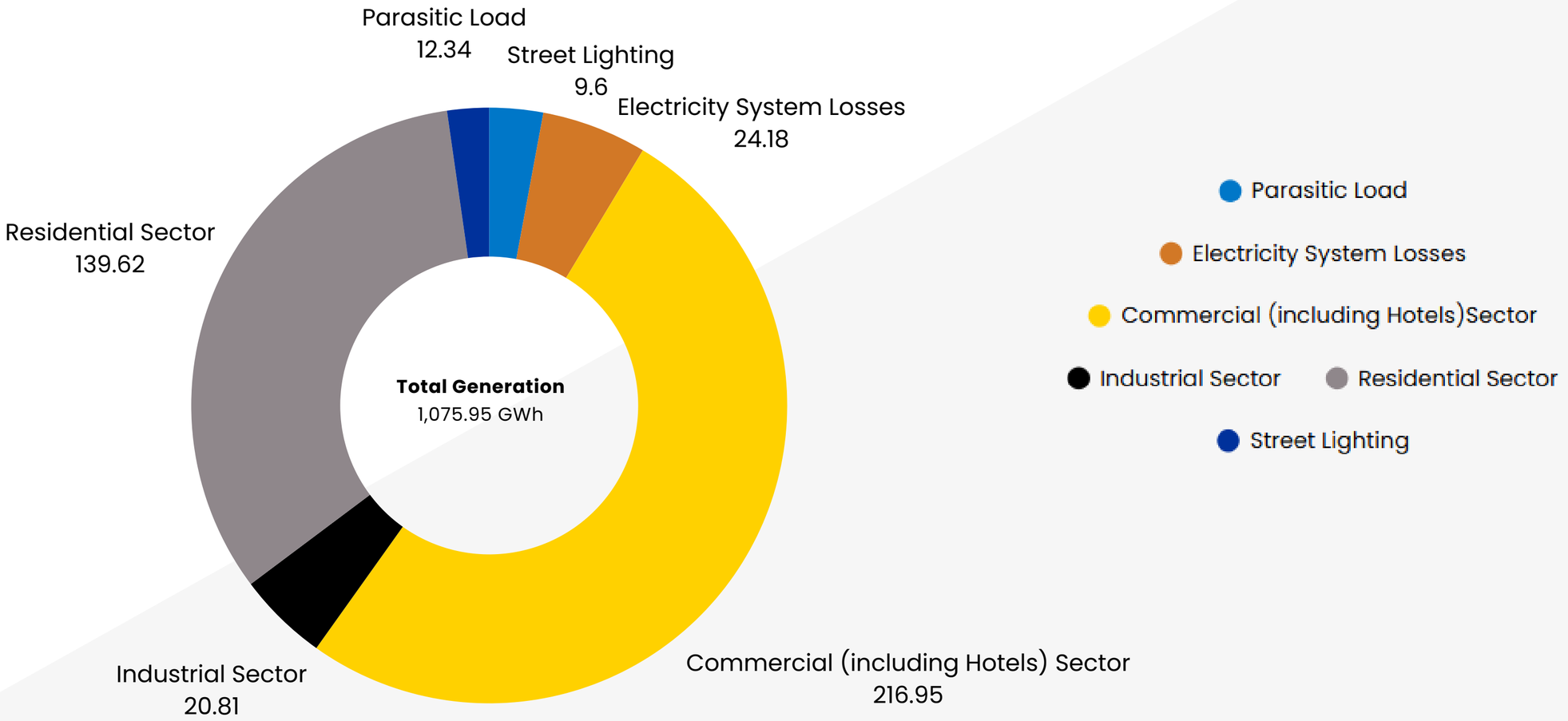
Electricity and Energy Efficiency [13] [14]

Installed Capacity (MW)

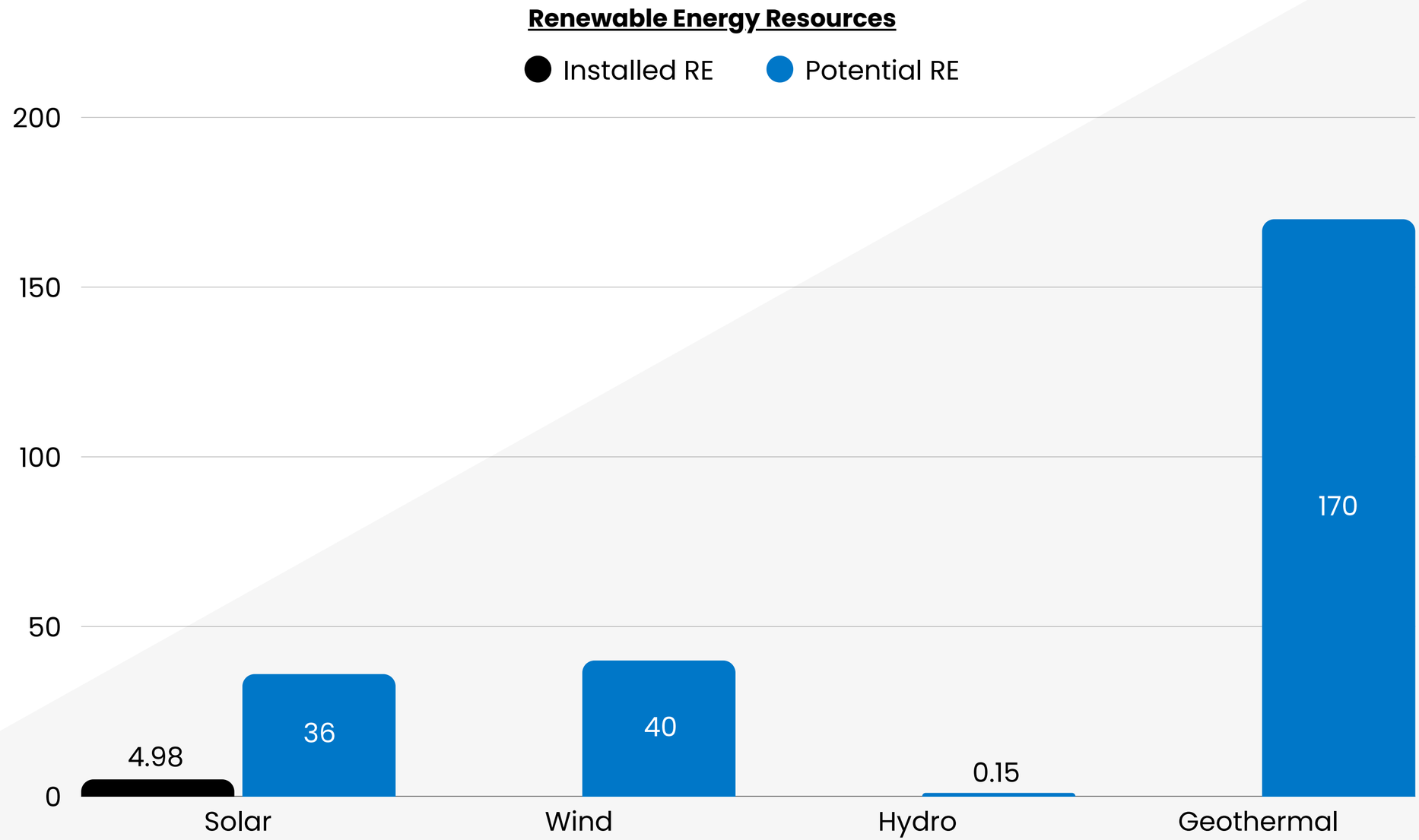


Electricity and Energy Efficiency [13] [14]

Energy Generation (GWh)



Electricity and Energy Efficiency [13] [14]



Electricity and Energy Efficiency [13]

Electricity Tariffs[5]

Rate Class	kWh	Rate (US$/kWh[6]
Residential	From 1-180 units	US$ 0.34
	From 181 units upwards	US$ 0.36
Commercial	Low Tension	US$ 0.39
	High Tension	US$ 0.38
Industrial/Hotels	Low Tension	US$ 0.39
	High Tension	US$ 0.38
Hospitals	Low Tension	US$ 0.39
	High Tension	US$ 0.38
Street Lights	All units	US$ 0.39

6 - Inclusive of the fuel cost adjustment

Projects in the Pipeline

Programmes

Programme Name	Executing Agencies	Technical Assistance Providers	Implementing Partner	Funding Awards	Funding Source
Support the Shift to Electric Mobility in Saint Lucia [33]	Department of Sustainable Development, Ministry of Education, Innovation, Gender Relations and Sustainable Development		United Nations Environment Programme	Co-Financing - $ 4,196,863 GEF Project Grant - $ 785,688	GEF Trust Fund
Supporting the implementation of NDCs in the Caribbean – transforming the transport and energy sectors towards a low-carbon and climate-resilient future (NDC-TEC)[1] [1] [33] [35]		Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE) Caribbean Development Bank (CDB) Climate Analytics The University of the West Indies, Mona Campus (UWI Mona)	Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH	€ 19,999,489.00 [1]	Federal Ministry for Economic Affairs and Climate Action of Germany (BMWK)via the International Climate Initiative (IKI)
Renewable Energy Sector Development Project [35]			Department of Infrastructure, Ports and Transport	Total - US$ 21.852 million World Bank - US$ 3.38 million UK International Development - US$ 4.2 million Canadian Clean Energy and Forest Climate Faclity (Loan) - US$ 3.7 million Canadian Clean Energy and Forest Climate Faclity (Gender Grant) - US$ 0.55 million Clean Technology Fund (Grant) - US$ 8.57 million	World Bank; UK Foreign, Commonwealth and Development Office; Canada Clean Energy and Forest Climate Facility, Clean Technology Fund and Government of Saint Lucia.

The programme Supporting the implementation of NDCs in the Caribbean – transforming the transport and energy sectors towards a low-carbon and climate-resilient future (NDC-TEC) is being undertaken in Antigua and Barbuda, Belize, Grenada, Jamaica, and Saint Lucia
The Department of Sustainable Development, Ministry of Education, Innovation, Gender Relations and Sustainable Development is the local partner for the programme.
This figure represents the entire project.

Projects in the Pipeline

Energy Efficiency Projects

Energy Efficiency	Project Name	Annual Costs (USD)	Old/Existing Infrastructure	Change in Old/Existing Infrastructure Expected in Upcoming Calendar Year	Expected Change in Technology	Relative Difference in Operating Consumption/Costs
Street Lighting [33]			€ 20 million	Replace 21,959 High Pressure Sodium (HPS) lamps to LED, Addition of 2,500 21Watt LEDs	HPS to LED	3,017,000 KWh energy reduction
Public Buildings [33]	Caribbean Efficient and Green Buildings Project		Replacement of florescent lights to LEDs in 33 buildings	Replacement of florescent lights to LEDs	Use of LEDs	Each 8 W LED bulb replaces a 60 W Incandescent or a 15 W CFL bulb (Estimated.)

Renewable Energy Projects

Renewable Energy Source	Project Name	System Size (kW)	Implementing Partner	Total Estimated Cost	Funding Source
Geothermal [33]	Renewable Energy Sector Development Project - Exploritory Drilling for Geothermal resource	Not Applicable	Department of Infrastructure, Ports and Transport	US$ 21.852 million	World Bank; UK Foreign, Commonwealth and Development Office; Canada Clean Energy and Forest Climate Facility, Clean Technology Fund and Government of Saint Lucia.
Solar PV	Caribbean Efficient and Green Buildings Project				

Projects in the Pipeline

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Tertiary Programmes Offered

Sir Arthur Lewis Community College [37]

Vocational Certificate

- Electrical Installation

Associate Degree Programme

- Environmental Science and Sustainable Development
- Environmental Studies and Climate Change
- Electrical Engineering

Climate Change Framework

Climate Change Policy	Saint Lucia's National Adaptation Plan 2018-2028 (2018) [10]
Nationally Determined Contributions Summary [11] [7]	7% GHG emissions reduction in the energy sector relative to 2010, by 2030, equivalent to 37 GgCO2 eq.
Emission Reduction Target	**The reduction of 16% and 23% of national greenhouse gas emissions by 2025 and 2030, respectively (relative to those in 2010) [11]**
Priority Sectors for NDC	Energy: Electricity generation and transportation [11]
National Communications (NC) to the UNFCCC	Saint Lucia's Initial National Communication on Climate Change (2001) [39]
	Second National Communication on Climate Change for Saint Lucia (2011) [40]
	Third National Communication for Saint Lucia (2017) [41]

7 - In 2025 the Government of St. Lucia updated its National Determined Contributions

Climate Change Framework

Summary of St. Lucia's GHG Emissions and Removals (Gg) for 2021 [41]

Sources	Emissions (Gg)		
	Carbon Dioxide (CO_2)	Methane (CH_4)	Nitrous Oxide (N_2O)
Energy	249.4	0.22	0.65
Manufacturing Industries & Construction	11.5	0.02	0.05
Civil Aviation (Domestic Aviation)	5.1	0	0.04
Road Transportation	245.1	1.33	7.2
Navigation	3.6	0.01	0.03
Commercial/Institutional	5.3	0.01	0
Residential	19.5	3.9	0.72
Agriculture/Forestry/Fishing	6.6	0.01	0.02
Marine International Bunker	3.6	Data not Available	
Aviation International Bunker	90	0	0

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Appendix

Additional Standards [12]

- SLNS 90: 2011 EE Specification for Incandescent Lamps
- SLNS 91: 2011 EE Labelling – Labelling of Fluorescent Tubular and Compact Lamps
- SLNS 92: 2020 EE Labelling — Washing machines — Specification and Test methods
- SLNS 93: 2015 EE Labelling of Air Conditioners
- SLNS 94: 2016 EE Labelling-Refrigerators
- SLNS/ISO 13065:2015 Sustainability criteria for bioenergy
- SLNS/ISO 14031:2013 Environmental management -- Environmental performance evaluation -- Guidelines
- SLNS/ISO 14064-1:2018 Greenhouse gases -- Part 1: Specification with guidance at the organization level for quantification and reporting of greenhouse gas emissions and removals
- SLNS/ISO 14067:2018 Greenhouse gases -- Carbon footprint of products -- Requirements and guidelines for quantification
- SLNS/ISO 14080:2018 Greenhouse gas management and related activities -- Framework and principles for methodologies on climate actions
- SLNS/ISO 17741:2016 General technical rules for measurement, calculation and verification of energy savings of projects
- SLNS/ISO 17742:2015 Energy efficiency and savings calculation for countries, regions and cities
- SLNS/ISO 17743:2016 Energy savings -- Definition of a methodological framework applicable to calculation and reporting on energy savings
- SLNS/ISO 18605:2013 Packaging and the environment -- Energy recovery
- SLNS/ISO 50001:2018 Energy management systems -- Requirements with guidance for use
- SLNS/ISO 50002:2014 Energy audits -- Requirements with guidance for use
- SLNS/ISO 50003:2014 Energy management systems -- Requirements for bodies providing audit and certification of energy management systems
- SLNS/ISO 50004:2014 Energy management systems -- Guidance for the implementation, maintenance and improvement of an energy management system
- SLNS/ISO 50006:2014 Energy management systems -- Measuring energy performance using energy baselines (EnB) and energy performance indicators (EnPI) -- General principles and guidance
- SLNS/ISO 50007:2017 Energy services -- Guidelines for the assessment and improvement of the energy service to users
- SLNS/ISO 50015:2014 Energy management systems -- Measurement and verification of energy performance of organizations -- General principles and guidance
- SLNS/ISO 50047:2016 Energy savings -- Determination of energy savings in organizations

Appendix

- SLNS/ISO/IEC 13273-1:2015 Energy efficiency and renewable energy sources -- Common international terminology -- Part 1: Energy efficiency
- SLNS/ISO/IEC 13273-2:2015 Energy efficiency and renewable energy sources -- Common international terminology -- Part 2: Renewable energy sources
- SLNS/ISO 3046-1:2002 Reciprocating internal combustion engines -- Performance --Part 1: Declarations of power, fuel and lubricating oil consumptions, and test methods- -- Additional requirements for engines for general use
- SLNS/ISO 9059:1990 Solar energy -- Calibration of field pyrheliometers bycomparison to a reference pyrheliometer
- SLNS/ISO 9845-1:1992 Solar energy -- Reference solar spectral irradiance at theground at different receiving conditions -- Part 1: Direct normal and hemisphericalsolar irradiance for air mass 1,5
- SLNS/ISO 9846:1993 Solar energy -- Calibration of a pyranometer using apyrheliometer
- SLNS 17225-8:2016 Solid biofuels -- Fuel specifications and classes -- Part 8: Gradedthermally treated and densified biomass fuels (ISO/TS 17225-8: 2016, IDT) ****
- SLNS CREEBC CARICOM Regional Energy Efficiency Building Code (Modification of International Energy Conservation Code)

Additional Energy Performance Standards/Appliance Labelling

- SLNS/ISO 13065:2015 Sustainability criteria for bioenergy
- SLNS/ISO 17742:2015 Energy efficiency and savings calculation for countries, regions and cities
- SLNS/ISO 17743:2016 Energy savings -- Definition of a methodological framework applicable to calculation and reporting on energy savings
- SLNS/ISO 18605:2013 Packaging and the environment -- Energy recovery
- SLNS/ISO 50001:2018 Energy management systems -- Requirements with guidance for use
- SLNS/ISO 50002:2014 Energy audits -- Requirements with guidance for use
- SLNS/ISO 50003:2014 Energy management systems -- Requirements for bodies providing audit and certification of energy management systems
- SLNS/ISO 50004:2014 Energy management systems -- Guidance for the implementation, maintenance and improvement of an energy management system
- SLNS/ISO 50006:2014 Energy management systems -- Measuring energy performance using energy baselines (EnB) and energy performance indicators (EnPI) -- General principles and guidance
- SLNS/ISO 50007:2017 Energy services -- Guidelines for the assessment and improvement of the energy service to users
- SLNS/ISO 50015:2014 Energy management systems -- Measurement and verification of energy performance of organizations -- General principles and guidance
- SLNS/ISO 50047:2016 Energy savings -- Determination of energy savings in organization