# **ST. LUCIA** ENERGY REPORT CARD (ERC) FOR 2021









# INTRODUCTION

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

The ERC provides an overview of the energy sector performance in St. Lucia. 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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#### Saint Lucia Medium Term<sup>[4]</sup> **Development Strategy 2020-2023**

0-National Development Plan/ Overall Country Development Strategy

# Saint Lucia National<sup>[5]</sup>

Energy Policy
 National Energy Policy

#### None

Renewable Energy (RE) Policy



[6] INDC - Target - 16% reduction in energy consumption by 2025 and 23% reduction in GHG emissions by 2030 RE Target

### National Determined Contributions (NDC)

7% GHG emissions reduction in the energy sector relative to 2010, by 2030, equivalent to 37 GgCO2 eq.<sup>[6]</sup>

#### **ENERGY PERFORM /APPLIANC**

#### CORE APPLIANCE LABELS [7]

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











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# **ENERGY SECTOR SUMMARY**

	182,279 <sup>[1]</sup>
	POPULATION (CENSUS/PROJECTION)
	\$9,278.50 <sup>[2]</sup> (5)
	GDP (USD) PER CAPITA
	<b>90.60%</b> [1] Debt as % of GDP
	0.715 <sup>[3]</sup> Human Development Index
and	NAMA's - Target [6] 20% reduction in energy consumption 16% reduction of GHG emissions by 2025
	RE Target
RM ICE	IANCE STANDARDS E LABELLING <sup>1</sup>
	FUEL QUALITY STANDARDS [7]
	SLNS 65: 2012 - Specification for Diesel Fuel
	<b>SLNS 76: 2011</b> - Standard Specification for Liquefied Petroleum Gases
у	<b>SLNS 67: 2014</b> - Specification for unleaded Gasoline

	No. of Persons Employed in Energy Sector	400
	Total Installed Conventional Capacity (MW)	88.4
	Total Installed RE (MW)	<b>4.55</b> <sup>[4</sup>
4	Electricity System Losses (%)	6.289
	Energy Use (kWh) Per Capita	1,935
۲ ۲ ۲	Fuel and Oil Imports as % of GDP	3.779
	Oil Imports as % of GDP	1.73%
( <del>C</del>	Electric Vehicle Stock	343
hinni	Climate Change Policy	Saint Lucia C Adaptation F Saint Lucia's Adaptation F 2018-2028 <sup>[11]</sup>
	Total Oil Import (BOE) per day	Not Av
	Total Oil Export (BOE) per day	Not Av
f	Energy Intensity (BTU/\$)	Not Av
	National Repository for Energy Data	Developmer – the aim is t the energy r the MRV Por Sustainable





1. Additional Standards are included in the Appendix







## **Performance Against Targets**









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# **ENERGY SECTOR PERFORMANCE**<sup>[13][8][14]</sup>

.



National Target (2030)

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

















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# **KEY ENERGY STAKEHOLDERS**





2. Ministry of Infrastructure, Ports, Energy and Labour has now been renamed to Ministry of Infrastructure, Ports, Transport, Physical Development and Urban Renewal.











**Energy Policy and Energy Action** Plan<sup>[5][28]</sup>

NOT ESTABLISHED **DRAFT IN PROGRESS** DRAFT

DRAFT UPDATE COMPLETE 2010 NOT ESTABLISHED DRAFT IN PROGRESS DRAFT DRAFT UPDATE COMPLETE 2015

RE Target<sup>[12]</sup>

EE Target<sup>[23]</sup>

NOT ESTABLISHED DRAFT IN PROGRESS DRAFT DRAFT UPDATE COMPLETE

Electricity Regulator

NOT ESTABLISHED DRAFT IN PROGRESS DRAFT **DRAFT UPDATE** 

2016

COMPLETE











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# POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK

#### Net Billing/ Net Metering<sup>3[23]</sup>

NOT ESTABLISHED DRAFT IN PROGRESS DRAFT DRAFT UPDATE



Interconnection Policy/Standards<sup>4</sup>

NOT ESTABLISHED

DRAFT IN PROGRESS DRAFT DRAFT UPDATE COMPLETEC

Feed-in-tariff <sup>[12]</sup>	RE/EE Act <sup>I</sup>
NOTESTABLISHED	NOTESTAB
DRAFT IN PROGRESS	DRAFT IN P
DRAFT	DRAFT
	DRAFT UPD
DRAFI UPDAIE	
OMPLETE	COMPLETE





3. Completed in 2009 with the start of the pilot project [12] 4. The utility has an interconnection agreement which is signed between self- generators and grid-tied PV customers. There is a Grid Code which was completed in 2020. 5. The Energy Efficiency Bill is a draft.



[12]

















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6. The Integrated Resource and Resilience Plan is being updated in 2022.

7.The St. Lucia National Energy Policy is being updated in 2022.





#### INSTALLED CAPACITY (MW)









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# **ELECTRICITY & ENERGY EFFICIENCY[38]**

ELECTRICITY CONSUMPTION (MWh)











#### RENEWABLE ENERGY RESOURCES (MW)











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# **ELECTRICITY & ENERGY EFFICIENCY**

.

#### ELECTRICITY TARIFFS<sup>[8]</sup>

RATE CLASS	MONTHLY CONSUMPTION/DEMAND (kWh)	TARIFF WITHOUT FUEL SURCHARGE (US\$/kWh)	TARIFF WITH FUEL SURCHARGE (US\$/kWh)
DESIDENTIAL	1-180	0.26	0.28
RESIDENTIAL	Over 180	0.28	0.30
	Low Voltage	0.32	0.34
COMMERCIAL	High Voltage	0.31	0.32
	Low Voltage	0.32	0.34
NDUSTRIAL/LARGE	High Voltage	0.31	0.32
STREETLIGHTS	All Units	0.32	0.33









#### **TECHNICAL ASSISTANCE PROJECTS**









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# **PROJECTS IN THE PIPELINE**

or Organization nks	Funding Awards	Technical Assistance     Providers
ons Environment e (UNEP)	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
ons Environment	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
istry for the ht, Nature on and Nuclear Safety		Climate Analytics; Caribbean Climate Change Centre; Caribbean Centre for Renewable Energy and Energy Effici- ency; University of the West Indies
ons Environment	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
ation Fund	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
es Trade and ent Agency (USTDA)		The Rocky Mountain Institute (RMI)
Development Bank	>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>	
		MCRIT; INSUCO; ILACO









### **Energy Efficiency Projects**

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** 





Co-Funded by the

European Union







# **PROJECTS IN THE PIPELINE**

STREET

LIGHTING<sup>[42]</sup>

.

21,959 High pressure Sodium Lamps, 2650 LEDs

8,618,676 kWh (measured)

\$2,647,000.00

Yes

Not Available

Yes

Replace 21,959 High pressure Sodium lamps to LED, Addition of 2,500 21Watt LEDs

Not Available

Not Available









### **Renewable Energy Projects**



#### SOLAR PHOTO-VOLTAIC<sup>[43]</sup>

CAPACITY 430kW

**DEVELOPMENT PARTNER** United Arab Emirates (UAE)

# COST (USD) \$23,000,000

**FUNDING SOURCE** UAE - Caribbean Renewable Energy Fund

**TRANSACTION ADVICE** Ministry of Infrastructure, Ports, Transport, Physical Development and Urban Renewal

**DEVELOPMENT PARTNER** International Renewable Energy Agency (IRENA) / ADFD Facility

**FUNDING SOURCE** Abu Dhabi Fund for Development (ADFD) Facility

Ministry of Infrastructure, Ports, Transport, Physical Development and Urban Renewal -**Electrical Department** 













# **PROJECTS IN THE PIPELINE**

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SOLAR PHOTO-VOLTAIC<sup>[43]</sup>

CAPACITY 10MW

# COST (USD) \$31,200,000

#### **TRANSACTION ADVICE**



**GEOTHERMAL**<sup>[43]</sup>

CAPACITY **30MW** 

**DEVELOPMENT PARTNER** Donor Funding and Technical Assistance Landscape

## COST (USD) \$22,375,000

#### **FUNDING SOURCE**

Clean Technology Fund (CTF); International Development Fund; United Kingdom Department for International Development; The SIDS Dock Support Program (Implemented through the World Bank)

#### **TRANSACTION ADVICE**

Ministry of Infrastructure, Ports, **Transport Physical Development** and Urban Renewal

Spanish Cooperation

















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# **TERTIARY PROGRAMMES OFFERED**<sup>8</sup>





8. The University of the West Indies Open Campus (St. Lucia) does not offer any energy related programs.











#### NO. OF PERSONS EMPLOYED IN THE ENERGY SECTOR

### WOMEN





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**giz** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH





# WORKFORCE<sup>8[45][46][47][48][49][38]</sup>



TOTAL NO. OF PERSONS AT LUCELEC





9. LUCELEC employees were not disaggregated by gender.







There were 343 Electric and Hybrid Vehicles registered in 2021.









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# **TRANSPORTATION SECTOR**<sup>[1][48][49]</sup>









#### **TYPES OF FUEL USED IN THE TRANSPORTATION SECTOR** (RUBIS)









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# **TRANSPORTATION SECTOR**<sup>[1][48][49]</sup>

#### TYPES OF FUEL USED IN THE TRANSPORTATION SECTOR (SOL PETROLEUM)















#### THE SAINT LUCIA CLIMATE CHANGE ADAPTATION POLICY (2015)<sup>[10]</sup>











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# CLIMATE CHANGE FRAMEWORK

.

7% GHG emissions reduction in the energy sector relative to 2010, by 2030, equivalent to 37 GgCO2 eq.<sup>[6]</sup>

The reduction of 16% and 23% of national greenhouse gas emissions by 2025 and 2030, respectively (relative to those in 2010)<sup>[6]</sup>

Energy: Electricity generation and transportation<sup>[6]</sup>

Saint Lucia's Initial National Communication on Climate Change (2001)<sup>[50]</sup>

Second National Communication on Climate Change for Saint Lucia (2011)<sup>[51]</sup>

Third National Communication for Saint Lucia (2017)<sup>[52]</sup>









### 2021 GREENHOUSE GAS (GHG) INVENTORY FOR ST. LUCIA<sup>[47]</sup>

Energy

Manufacturing Industries & Construction

Civil Aviation (Domestic Aviation)

**Road Transportation** 

Navigation

Commercial/Institutional

Residential

Agriculture/Forestry/Fishing

Marine International Bunker

Aviation International Bunker









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# **CLIMATE CHANGE FRAMEWORK**

co	СН	N.O	
249.4	0.2200	0.65	
11.5	0.0200	0.05	
5.1	0.0000	0.04	
245.1	1.3300	2.	
3.6	0.0100	0.03	
5.3	0.0100	0	
19.5	3.9000	0.7200	
6.6	0.0100	0.0200	
3.6	Data not available		
90.0	0.0000	0.0000	









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#### Additional Standards<sup>[7]</sup>

- SLNS 92: 2020 EE Labelling Washing machines Specification and Test methods
- 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
- 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 by comparison to a reference pyrheliometer
- SLNS/ISO 9845-1:1992 Solar energy -- Reference solar spectral irradiance at the ground at different receiving conditions -- Part 1: Direct normal and hemispherical solar irradiance for air mass 1,5
- SLNS/ISO 9846:1993 Solar energy -- Calibration of a pyranometer using a pyrheliometer
- SLNS 17225-8:2016 Solid biofuels -- Fuel specifications and classes -- Part 8: Graded thermally treated and densified biomass fuels (ISO/TS 17225-8: 2016, IDT)<sup>9</sup>
- SLNS CREEBC CARICOM Regional Energy Efficiency Building Code (Modification of International Energy Conservation Code)









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°Currently being revised by the Saint Lucia Bureau of Standards

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