

2020 ENERGY REPORT CARD

SURINAME



CCREEE

CARIBBEAN CENTRE FOR RENEWABLE
ENERGY & ENERGY EFFICIENCY

AN INSTITUTION OF

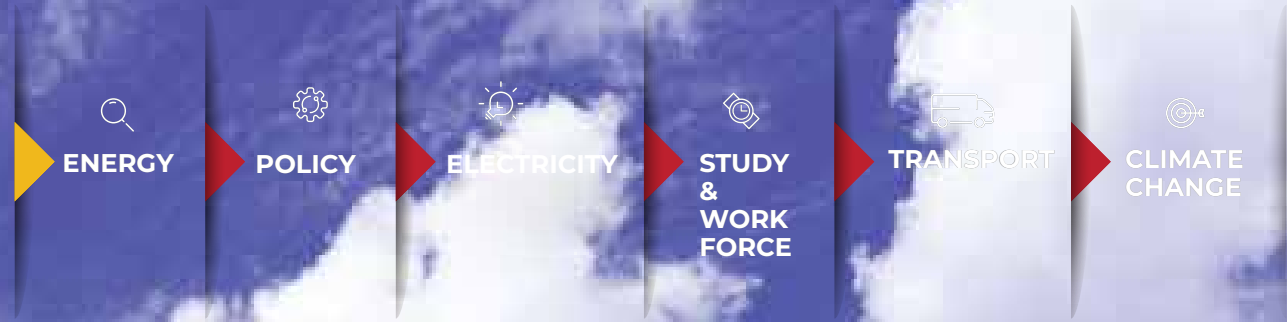
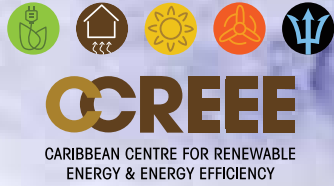


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2020 ENERGY REPORT CARD

INTRODUCTION

This document presents Suriname's Energy Report Card (ERC) for 2020. The ERC provides an overview of the energy sector performance in Suriname. 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.

ENERGY SECTOR SUMMARY

ENERGY

POLICY

ELECTRICITY

STUDY
&
WORK
FORCE

TRANSPORT

CLIMATE
CHANGE

National
Development
Plan
2017-2021 Policy
Development Plan
[5]

Population
(Census/
Projection)
590,000
[1]

National
Energy Policy
**Draft National
Energy Policy
(2013-2033)**
[6]

RE Target
**35%
by 2030**
[7]

National
Repository for
Energy Data
None

GDP (USD)
Per Capita
\$6,491.14
[2]

Human
Development
Index
0.738
(2019)
[4]

Climate
Change Policy
**The National Climate
Change Policy,
Strategy and
Action Plan
(NCCPSAP)**
2017-2021
[12]

Energy
Performance
Standards/
Appliance
Labelling
None

National
Repository for
Energy Data
None

Debt as
% of GDP
111.42%
[3]

National
Determined
Contributions
(NDC)
**maintaining its
93% forest cover,
35% renewables
by 2030**
[13]

No. of Persons
Employed in
Energy Sector
2,346
[8],[9][10]

Total Oil
Import (BOE)
per day
734,026.28
[11]

Total
Installed
Conventional
Capacity (MW)
561
[8]

Fuel and Oil
Imports as % of
GDP
3.94%
[11]

Electricity
System
Losses (%)
15%
[8]

Energy Use
(kWh) Per
Capita
2525
[10]

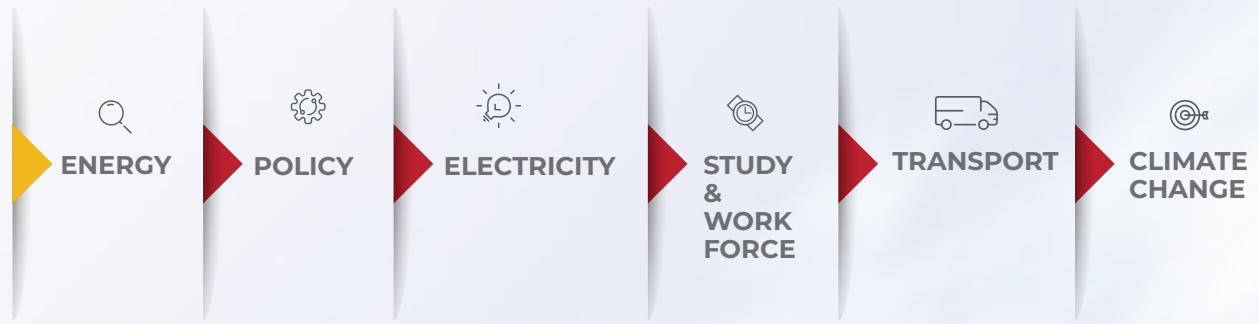
Total Oil
Export (BOE)
per day
19,975.24
[11]

Renewable
Energy (RE)
Policy
None

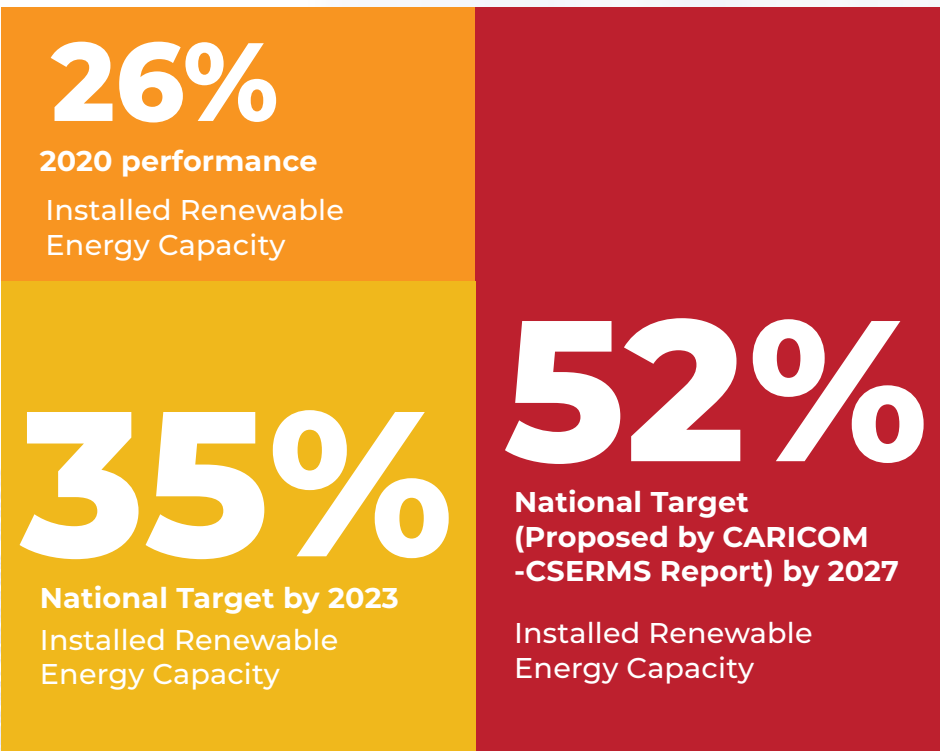
Electric
Vehicle Stock
0

Energy
Intensity
(BTU/\$)
**Not
Available**

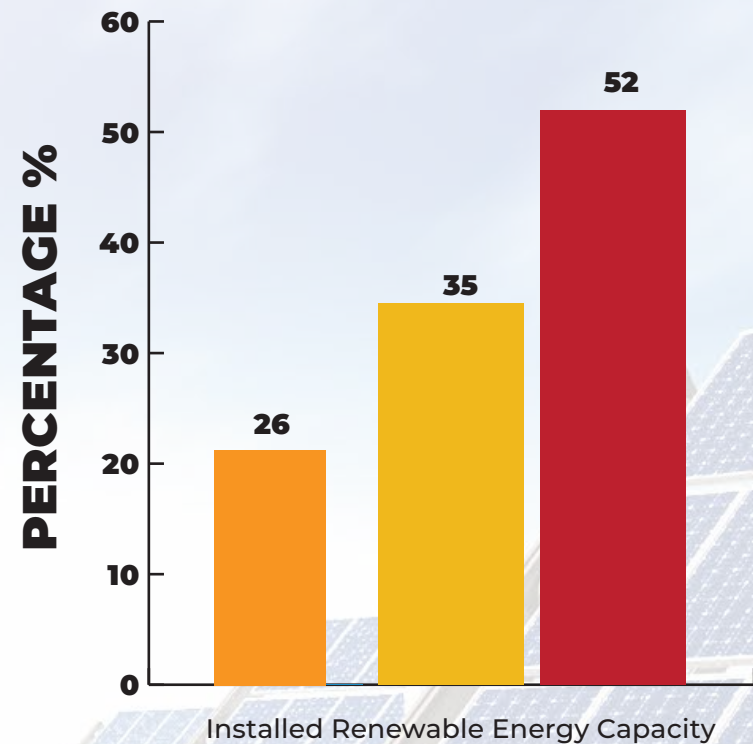
Total
Installed
RE (MW)
194.50
[8]



ENERGY SECTOR PERFORMANCE AGAINST TARGETS



PERFORMANCE AGAINST TARGETS



2020 Performance National Target by 2023

National Target
(Proposed by CARICOM -CSERMS Report) 2027

KEY ENERGY STAKEHOLDERS



Government Ministries, Departments and Agencies

Ministry of Natural Resources
Ministry of Spatial Planning and Environment

Fuel Suppliers

SOL Suriname
Roy Boedhoe
Staatsolie (Gow2)

Electric Utility

N.V. Energiebedrijven Suriname (State Enterprise)

Independent Power Producer

Rosebel Gold Mine
Staatsolie Power Company (SPCS)

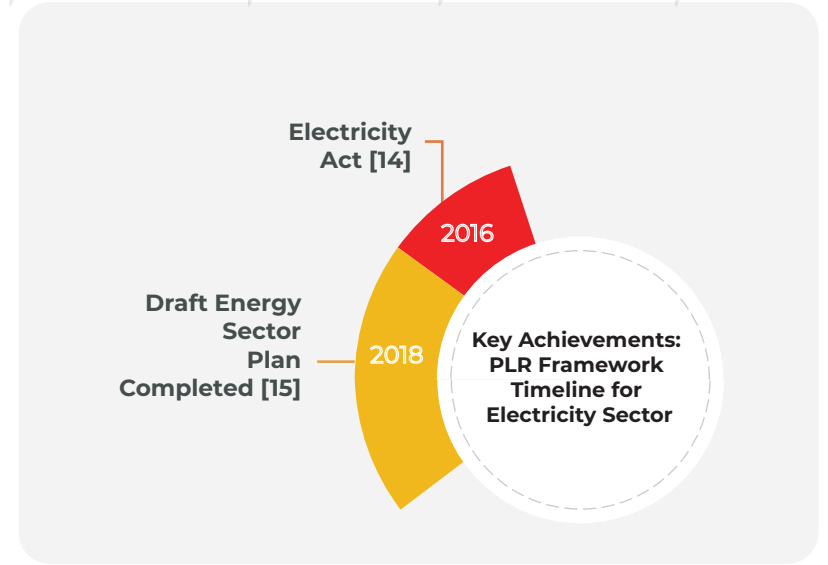
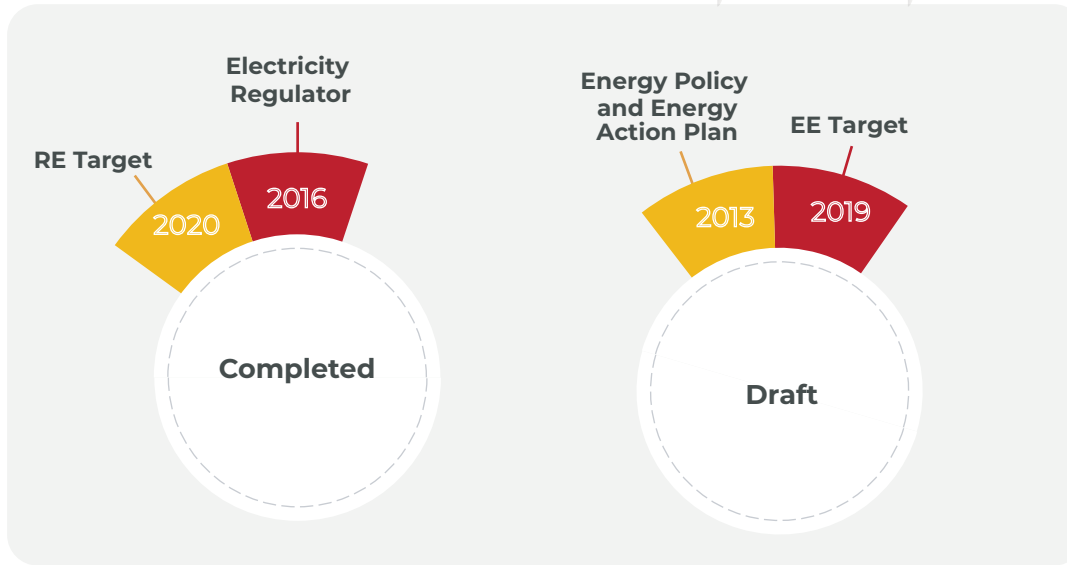
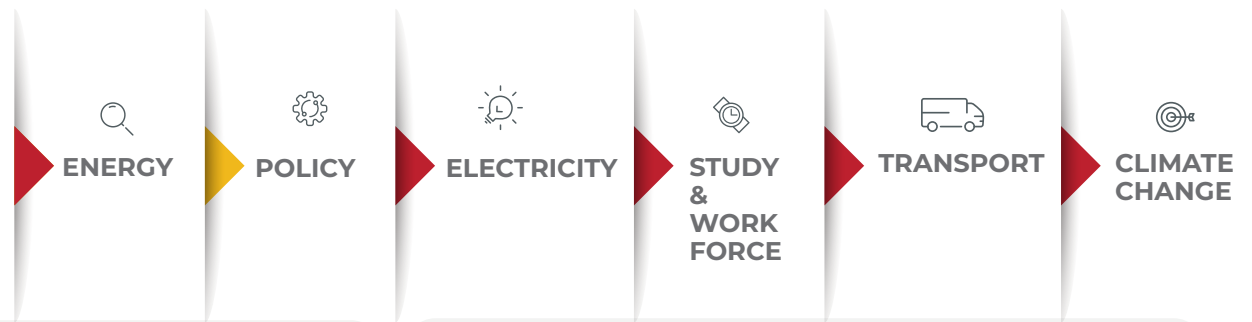
Electricity Regulator

Suriname Energy Authority
(Energie Autoriteit Suriname - EAS)

Transportation

Ministry of Transport, Communications and Tourism

POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK



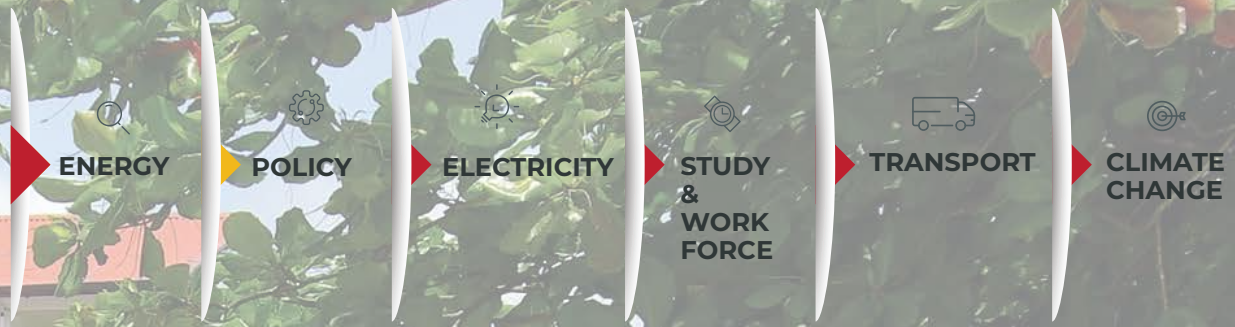
POLICIES AND LEGISLATION RELEVANT TO THE ENERGY SECTOR

Draft National Energy Policy (2013-2033) [6]

POLICY

2013 - 2033

POLICY, LEGAL AND REGULATORY (PLR) FRAMEWORK



POLICIES AND LEGISLATION RELEVANT TO THE TRANSPORTATION SECTOR

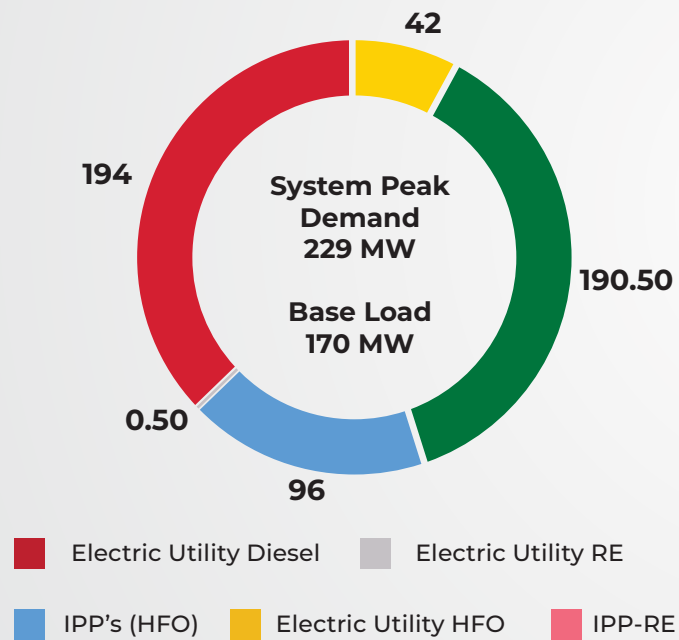
No policies or legislations were noted for the transportation sector



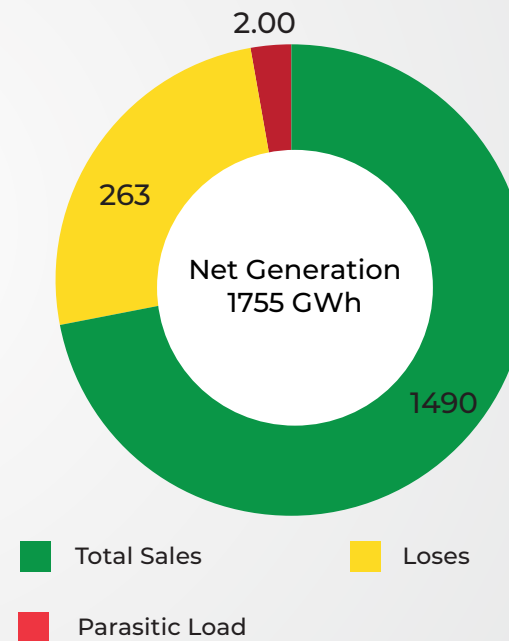
ELECTRICITY & ENERGY EFFICIENCY



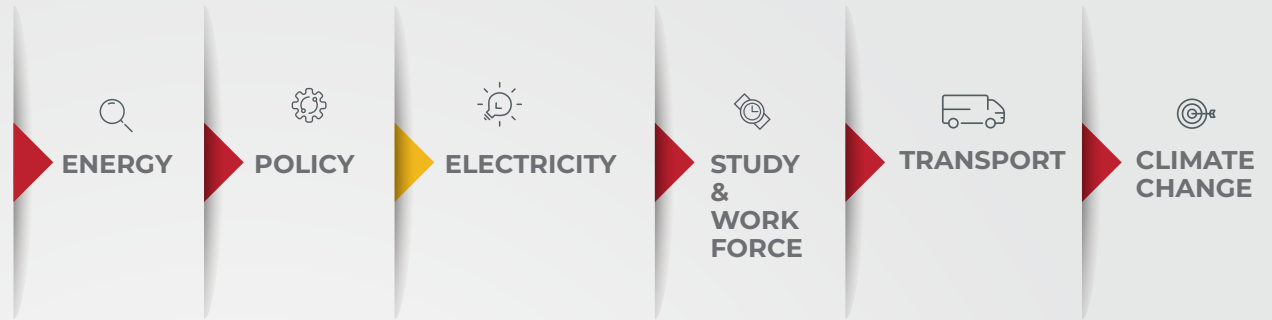
INSTALLED CAPACITY (MW)



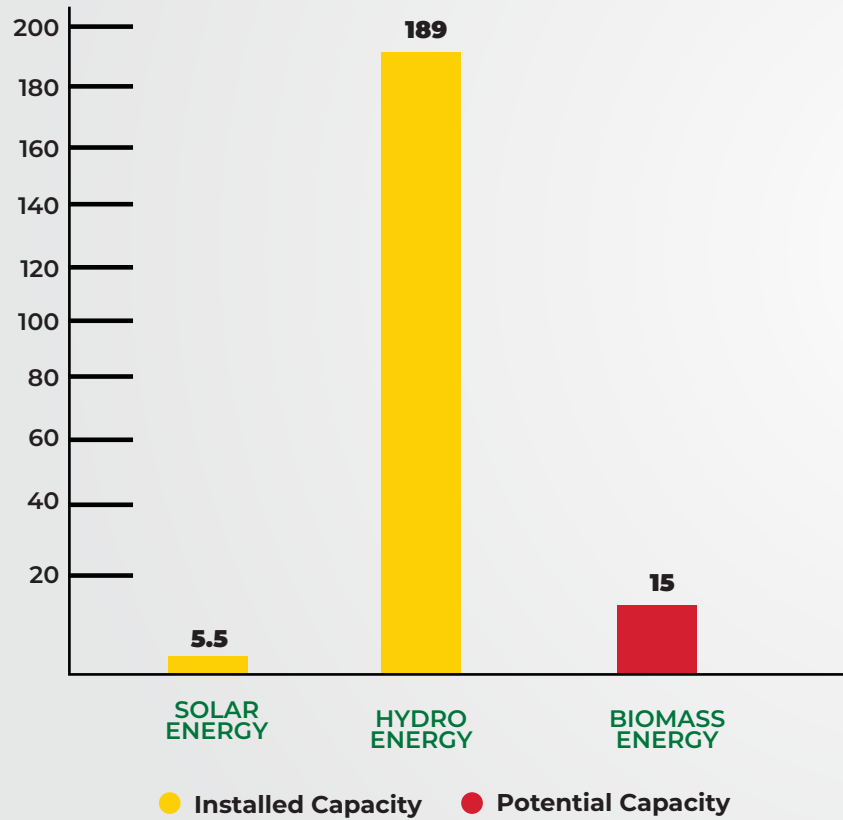
ENERGY CONSUMPTION (GWh)



ELECTRICITY & ENERGY EFFICIENCY



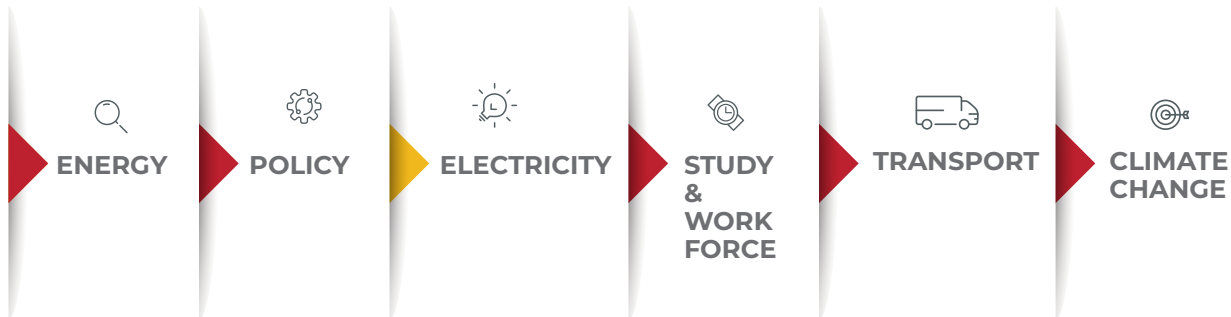
RENEWABLE ENERGY RESOURCES (MW)



ELECTRICITY TARIFFS

RATE CLASS	MONTHLY CONSUMPTION / DEMAND (kWh)	TARIFF / (US\$/kWh)
RESIDENTIAL	≤ 800	0.05
	> 800	0.08
LARGE COMMERCIAL	≤ 2,600	0.05
INDUSTRIAL / LARGE POWER	>2,600	0.08
STREET LIGHTS		0.089

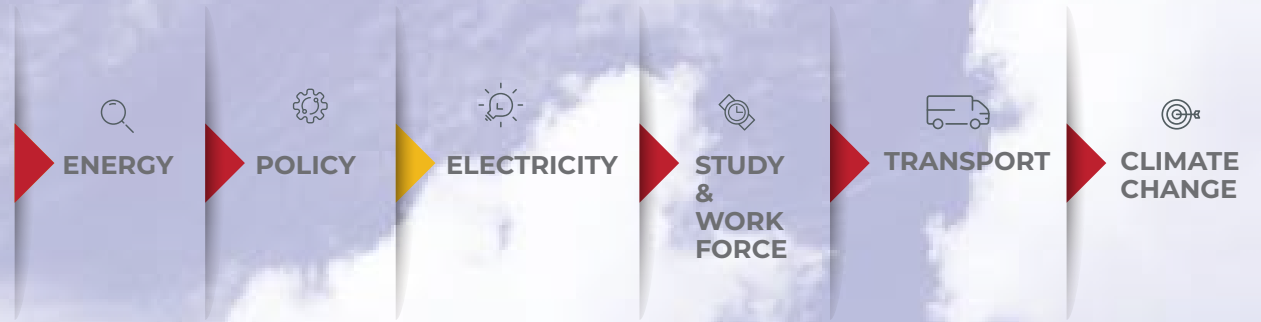
PROJECTS IN THE PIPELINE



TECHNICAL ASSISTANCE PROJECTS

DONOR FUNDING AND TECHNICAL ASSISTANCE LANDSCAPE	DONOR ORGANIZATIONS & BANKS	TECHNICAL ASSISTANCE PROVIDERS	FUNDING AWARDS	YEAR
SU-L1055: CONSOLIDATING A SUSTAINABLE ENERGY SECTOR	IDB	NOT AVAILABLE	US\$30 MILLION	2020
SUT1138: SUPPORT THE DEVELOPMENT OF SOLAR FLOATING PHOTOVOLTAIC ENERGY IN SURINAME	IDB	NOT AVAILABLE	US\$300 MILLION	2021
SUG1001: DEVELOPMENT OF RENEWABLE ENERGY ENERGY EFFICIENCY	IDB	NOT AVAILABLE	US\$440 MILLION	2018

PROJECTS IN THE PIPELINE



ENERGY EFFICIENCY PROJECTS

No Energy Efficiency projects were noted.

RENEWABLE ENERGY PROJECTS

No Renewable Energy projects were noted.

TERTIARY PROGRAMMES OFFERED

ENERGY

POLICY

ELECTRICITY

STUDY & WORK FORCE

TRANSPORT

CLIMATE CHANGE

ANTON DE KOM UNIVERSITY OF SURINAME - FTEW

M.Sc.

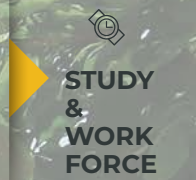
	PERSONS ENROLLED	PERSONS GRADUATED
SUSTAINABLE MANAGEMENT OF NATURAL RESOURCES	60	-

<https://www.uvs.edu/adekus/faculteiten/technologische-wetenschappen/>

M.Sc.

	PERSONS ENROLLED	PERSONS GRADUATED
RENEWABLE ENERGY TECHNOLOGY	20	-

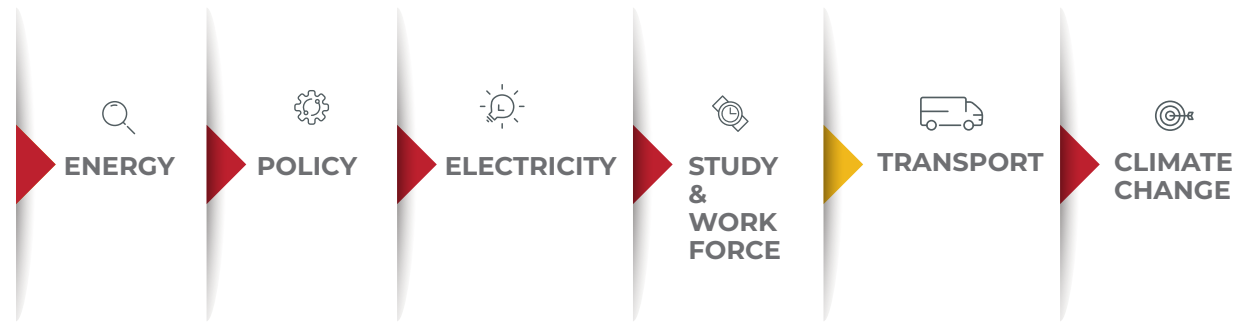
WORKFORCE



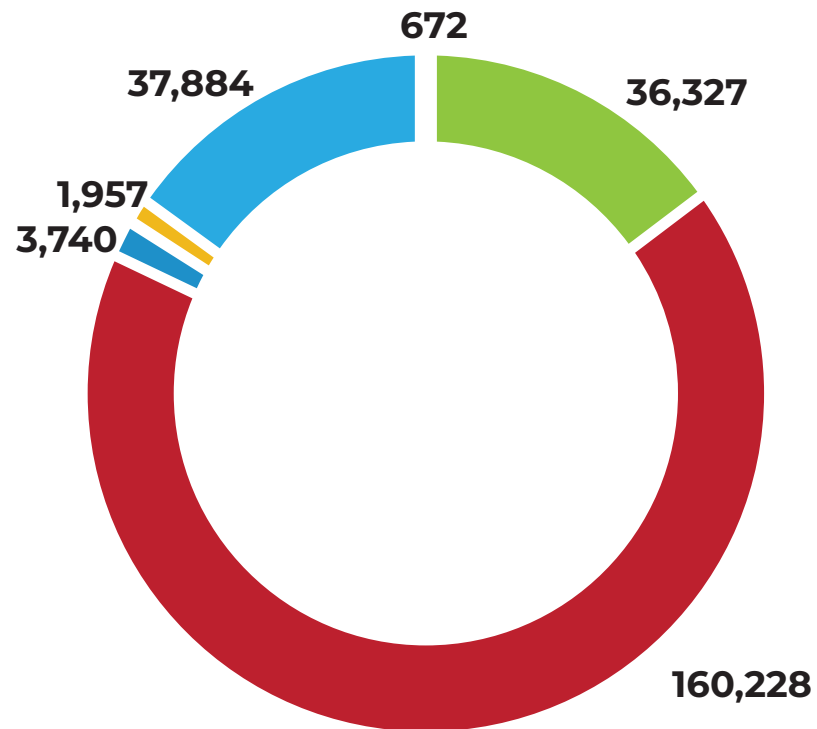
THERE ARE 2,346 PERSONS EMPLOYED ACROSS STAATSOLIE, N.V. ENERGIEBEDRIJVEN SURINAME, AND SURINAME ENERGY AUTHORITY.



TRANSPORTATION SECTOR



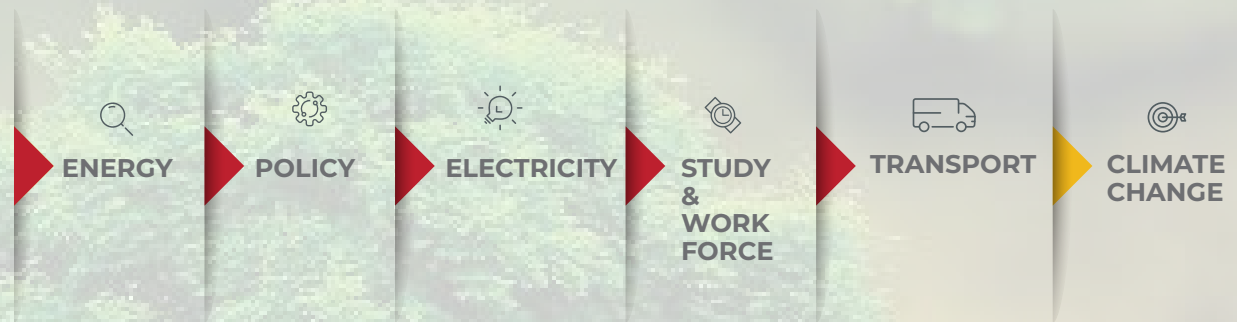
REGISTERED VEHICLES



 Buses  Tractors  Cars

 Mopeds  Motorcycles  Trucks

CLIMATE CHANGE FRAMEWORK



NATIONAL CLIMATE CHANGE POLICY, STRATEGY AND ACTION PLAN (NCCPSAP) [12]

NATIONAL DETERMINED CONTRIBUTIONS:

Maintaining its 93% forest cover
35% renewables by 2030 [13]

PRIORITY SECTORS FOR NDCs

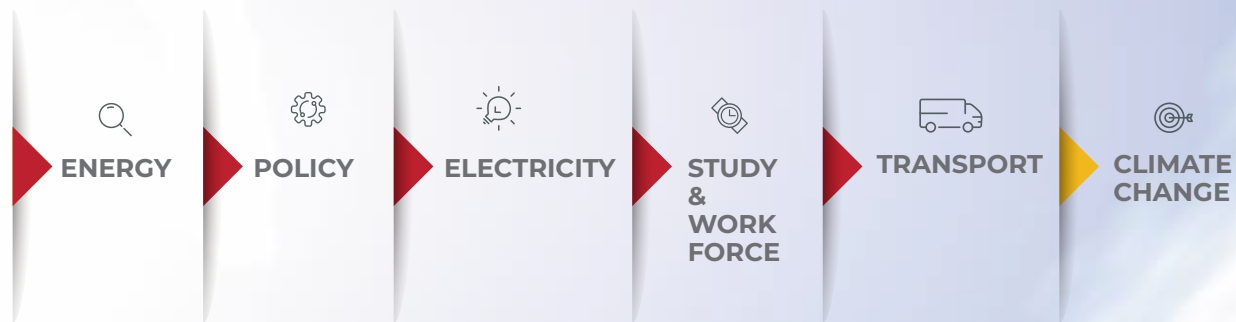
Forestry, Electricity,
Transportation,
Agriculture

NATIONAL COMMUNICATIONS (NC) TO THE UNFCCC:

First National Communication under the United Nations
Framework Convention on Climate Change (2006) [16]

Second National Communication to the United Nations
Framework Convention on Climate Change (2016) [17]

CLIMATE CHANGE FRAMEWORK



SUMMARY OF SURINAME GHG EMISSIONS [17]

EMISSIONS (Gg CO ₂ EQUIVALENT)			
CATEGORIES	CO ₂	CH ₄	N ₂ O
ENERGY	3788.15	3.3600	7.48
MANUFACTURING INDUSTRIES & CONSTRUCTION	2912.47	2.8300	6.75
CIVIL AVIATION	116.20	0.0200	1.04
ROAD TRANSPORTATION			
RESIDENTIAL	38.00	0.0800	0.0200
AGRICULTURE / FORESTRY / FISHING	952.57	3.57	0.83
MARINE INTERNATIONAL BUNKER	0.01		
AVIATION INTERNATIONAL BUNKER	102.20	0.0200	0.0600

Gg represents giga grams*

REFERENCES



[1] Trading Economics, “Suriname Population1960-2020 Data,” [Online]. Available: <https://tradingeconomics.com/suriname/population..> [Accessed 19 July 2021].

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[6] Economic Commission for Latin America and the Caribbean, “Suriname’s National Energy Policy 2013 – 2033,” [Online]. Available: https://www.seforall.org/sites/default/files/Suriname_RAGA_EN_Released.pdf. [Accessed 17 November 2021].

[7] A. & K. M. & A. K. & M. E. & K. P. Ochs, “Caribbean Sustainable Energy Roadmap and Strategy (C-SERMS) Baseline Report and Assessment. 10.13140/RG.2.1.4351.1922.,” 2015.

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[11] Ministry of Trade, Industry and Tourism, Fuel Import and Export Data, Paramaribo: Private Communication, 2021.

[12] “National Climate Change Policy, Strategy and Action Plan (NCCPSAP) for Suriname 2014-2021”.

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