

BALANCE SHEET



2020 KEY ENERGY FI-

Imported:
7 858 GWh

Local :
604 GWh

Primary consumption:
8 396 GWh

Final consumption :
6 010 GWh

Domestic Gas:
153 GWh

heat:
220 GWh

Electricity consumption :
1 689 GWh

Self-production consumption :
3 GWh

Fuel consumption :
3 945 GWh

Renewable Energy :
23,32%

fuels :
112 GWh

Transport :
3 833 GWh

* In 2020, 7 facilities were declared self-consumer of electric energy (2,7 MWc).

In Brief...

CONSUMPTION

In 2020, the global health crisis and the ensuing economic crisis led to a drop in energy consumption. Between March and May 2020 (confinement), consumption dropped drastically before gradually recovering over the following months. Final energy consumption decreased and reached 6,010 GWh (-15,6% compared to 2019).

While electricity consumption showed a relatively moderate decrease, -2,1%, it was consumption in the transport sector that collapsed. : -21,9% compared to 2019.

Two-thirds of the decrease is made up of the decrease in air fuel consumption (-40%) and that of the road sector (-13%) compared to 2019.

PRODUCTION

Guadeloupe's dependence on imported and fossil fuels (petroleum fuels, fuel oil, coal, butane) remains very high: it stands at 93%. It has nevertheless been declining steadily for 10 years, thanks to the gradual inclusion of more renewable energies in the electricity mix.

In 2020, Guadeloupe has never produced so much electricity from renewable energies: nearly 394 GWh. Renewable energies reach 23.32% of the electricity mix, again a level never reached before.



Thanks to the data providers and experts who made it possible to carry out this energy balance:

EDF ARCHIPEL GUADELOUPE, GEOTHERMIE BOUILLANTE, ALBIOMA LE MOULE, SARA, GPAP, SIGL, GARDEL, SYVADE, GABARRE ENERGIE, TOTAL QUADRAN, EDF EN, SEC, SOLEBAM, PARC NATIONAL, CGSS, SOLAR ELECTRIC GUADELOUPE, SP HLM, EQUINOXE, DAC ANTILLES, VALOREM, METEO-FRANCE, MINISTERE DE LA TRANSITION ECOLOGIQUE ET SOLIDAIRE, INSEE, IREP-GEOPORTAIL, DIRECTION GENERALE DES DOUANES ET DROITS INDIRECTS DEPARTEMENT DES STATISTIQUES ET DES ETUDES ECONOMIQUES, DIRECTION REGIONALE DES DOUANES DE GUADELOUPE, MINISTERE DE LA TRANSITION ECOLOGIQUE ET SOLIDAIRE, ADEME, REGION GUADELOUPE, PREFECTURE DE LA GUADELOUPE

The regional energy and climate observatory (OREC) is a decision-support partnership tool created with the aim of observing the energy and climate evolution of our territory.

It aims to centralize data in order to analyze it and ensure dissemination.

Data can be collected, measured or from specific studies.

The Guadeloupe Energy and Climate Observatory is made up of:

- A **secretariat**, provided by Synergîle, which administratively coordinates the observatory and carries out the missions of the observatory;
- A **Committee of the Regional Energy and Climate Observatory**, made up of the Guadeloupe Region, the Environment, Planning and Housing Department (DEAL), EDF Archipel Guadeloupe, Météo- France, the Ecological Transition Agency (ADEME), the Société Anonyme de la Raffinerie des Antilles (SARA), the Mixed Electricity Union of Guadeloupe (SYMEG), Albioma, the Agence Française de Development (AFD) and Synergîle;
- A **Regional Group of Experts on Climate (GREC)**, made up of members from research, the socio-professional world and the public sphere: (45 members in June 2021): ADEME; AERIS ENGINEERING GROUP; ALSYON CONSULTANTS; ASSOCIATION DES URBANISTES DE GUADELOUPE; BANQUE MONDIALE; BRGM; CREOCEAN; COMMUNAUTE AGGLOMERATION DE CAP EXCELLENCE; COMMUNAUTE D'AGGLOMERATION DU NORD GRANDE TERRE; COMMUNAUTE D'AGGLOMERATION DU GRAND SUD CARAIBES; COMMUNAUTE D'AGGLOMERATION DE LA RIVIERA DU LEVANT; ENERGAYA; FLEUR DE CARBONE SARL; GAIA SEE NERGIE KARAIBES; GÉOMATIK KARAÏB; IPGP-OBSERA ; INRAE; KARUSPHERE; MARINA GUADELOUPE; METEO-FRANCE; PNUD; PROTEACTIVE CARAIBES; REGION GUADELOUPE; SEGE BIODIVERSITÉ; STAC; SUEZ CONSULTING - DCS CARAÏBES; SY.MEG; TCGNR; WRI; TROPICAL MANAGEMENT; UNIVERSITÉ DES ANTILLES; UNIVERSITÉ DES ANTILLES LABORATOIRE LARGE ; OFFICE DE L'EAU GUADELOUPE; ITTEL; RITA; OBSERVATOIRE REGIONAL DES TRANSPORTS; SMT; AMARINCO; GWAD'AIR.

Members of the Observatory Committee

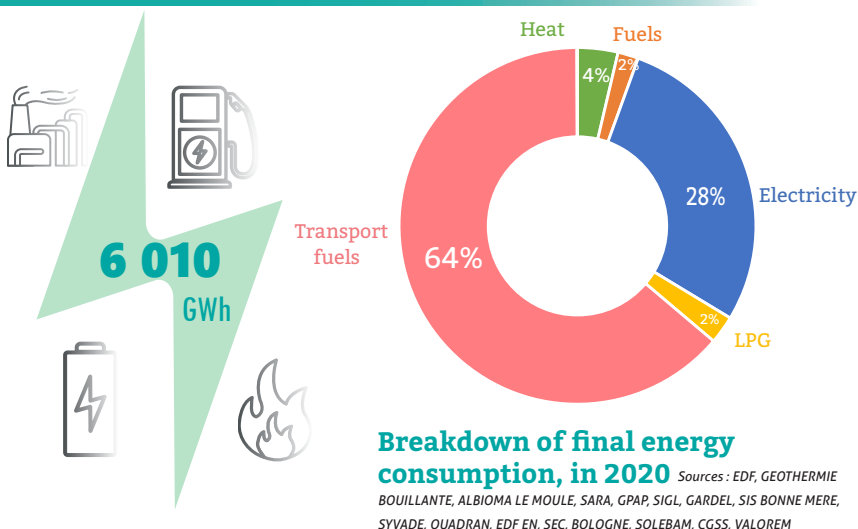


Direction
de l'Environnement,
de l'Aménagement et du Logement

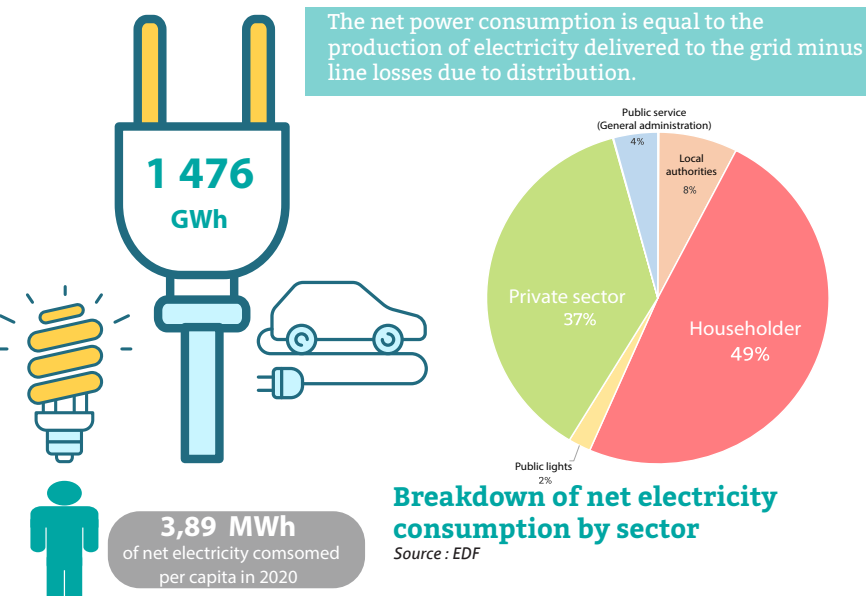


FINAL ENERGY CONSUMPTION IN GUADELOUPE

FINAL CONSUMPTION

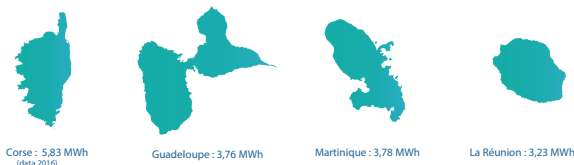


ELECTRICITY

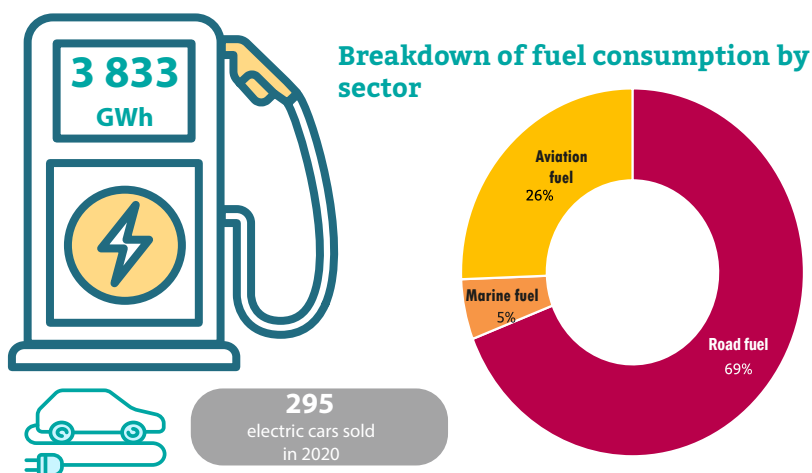


Net electricity consumption per capita in the French Insular area all sectors combined, 2019

Sources : OREC, OMEGA, OER, GEC, OREGES de Corse

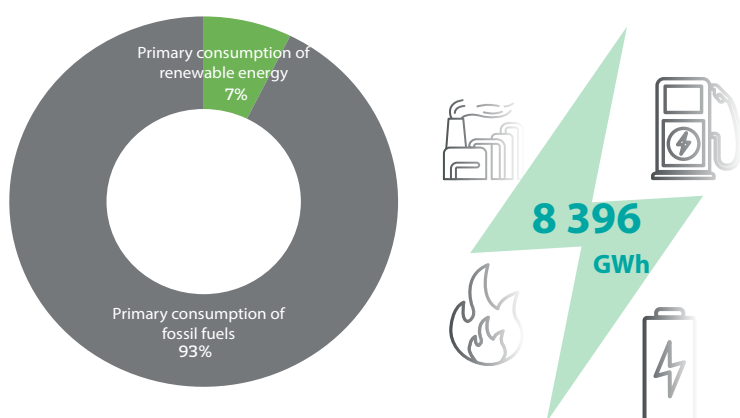


TRANSPORT



ENERGY RESOURCES IN GUADELOUPE

PRIMARY CONSUMPTION



Breakdown of primary consumption in 2020

Sources : EDF, GEOTHERMIE BOUILLANTE, ALBIOMA LE MOULE, SARA, GPAP, SIGL, GARDEL, SIS BONNE MERE, SYVADE, QUADRAN, EDF EN,

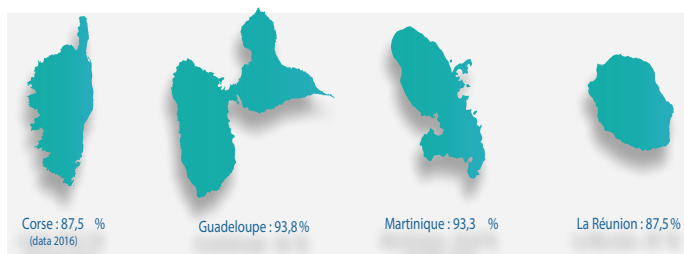
Primary energy	GWh	%
Coal	1 207	14,4%
LPG (Liquefied Petroleum Gas)	153	1,8%
Domestic Fuel Oil	345	4,1%
Heavy fuel oil	2 217	26,4%
Unleaded	1 051	12,5%
Diesel fuel	1 820	21,7%
Lampant	5	0,1%
Jet fuel	981	11,7%
Sub-total fossil fuels	7 779	92,7%
Bagasse	47	0,6%
Geothermal	115	1,4%
Hydro Electricity	25	0,3%
Wind	73	0,9%
PV	104	1,2%
Biogas	16	0,2%
Electrical battery	-0,50	<0
Solar hot water	112	1,3%
Steam	99	1,2%
Industrial hot water	9	0,1%
Self-electrical production	3	<1%
Sub-total local renewable energies	604	7,2%
Wood (pellets)	13	0,2%
Sub-total of imported biomass	13	0,2%
TOTAL	8 396	

ENERGY DEPENDENCY

2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
97,20%	96,63%	96,19%	95,75%	94,97%	95,06%	93,86%	93,92%	93,83%	92,81%

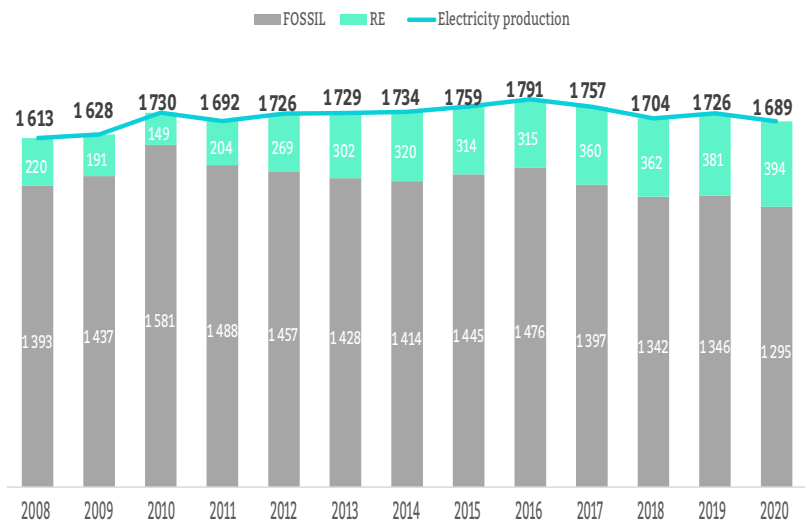
Energy dependency rate in French insular aera in 2019

Sources : OREC, OMEGA, OER, GEC, OREGES de Corse



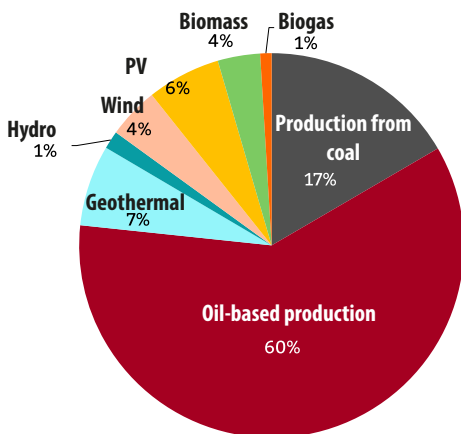
ELECTRICITY PRODUCTION IN GUADELOUPE

ELECTRICITY PRODUCTION



Electricity production by primary energy source

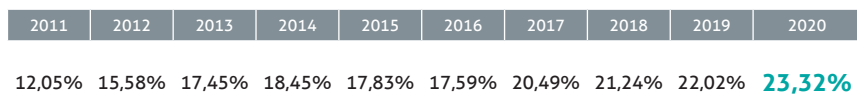
Sources : EDF, GEOTHERMIE BOUILLANTE, ALBIOMA LE MOULE, ALBIOMA CARAIBES, SYVADE, QUADRAN, EDF EN, SEC, VALOREM



Breakdown of electricity production by primary energy source

Sources : EDF, GEOTHERMIE BOUILLANTE, ALBIOMA LE MOULE, ALBIOMA CARAIBES, SYVADE, QUADRAN, EDF EN, SEC, VALOREM

Rate of electricity produced from renewable resources



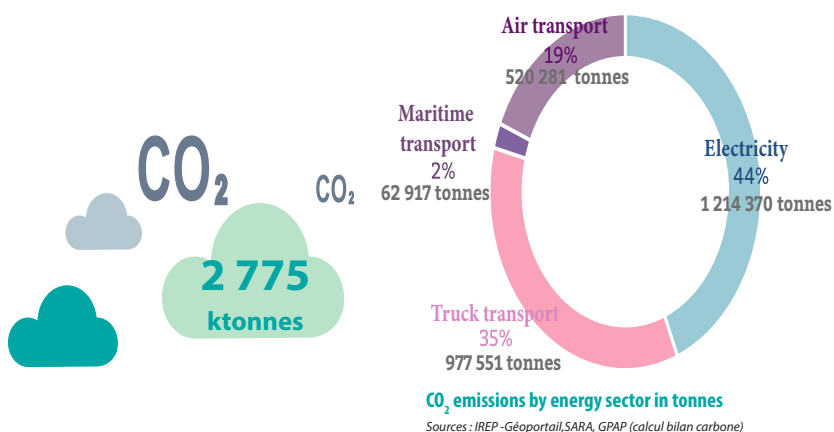
Rate of Renewable Energy in the electricity production in the French Insular area in 2019

Sources : OREC, OMEGA, OER, GEC, OREGES de Corse, Open data EDF

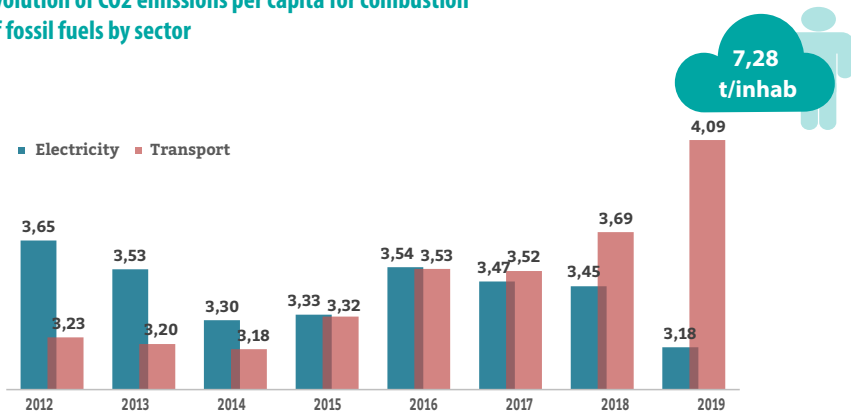


GREENHOUSE GAS

CO₂ EMISSIONS LINKED TO FUEL COMBUSTION

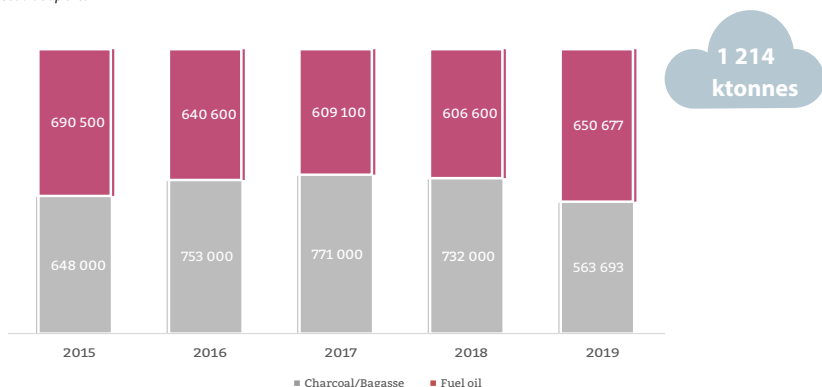


Evolution of CO₂ emissions per capita for combustion of fossil fuels by sector



Evolution of CO₂ emissions for electricity production

Sources : Géoportail

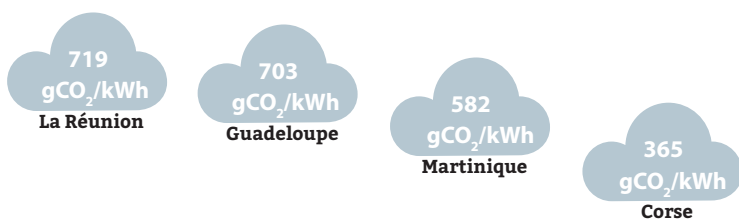


Emissions per kWh consumed (Gco₂ / kWh)

2011	2012	2013	2014	2015	2016	2017	2018	2019
934	854	823	769	761	778	786	786	703

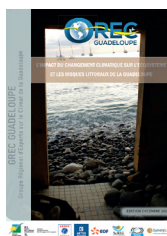
Emissions per kWh consumed in French insular area (gCO₂ / kWh), 2019

Sources : OREC, OMEGA, OER, OREGES de Corse





OREC Publications



All the observatory's documentary work can be downloaded
free of charge at :

www.synergile.fr

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