

Albioma

**It's time to
change energy!**

THE ESSENTIAL

2019



ALBIOMA

Albioma, an independent producer of renewable energy

Key figures 2018

500
employees

€428m
in revenue

2.5m
people supplied
with electricity

910 MW
installed capacity
(at end February 2019)

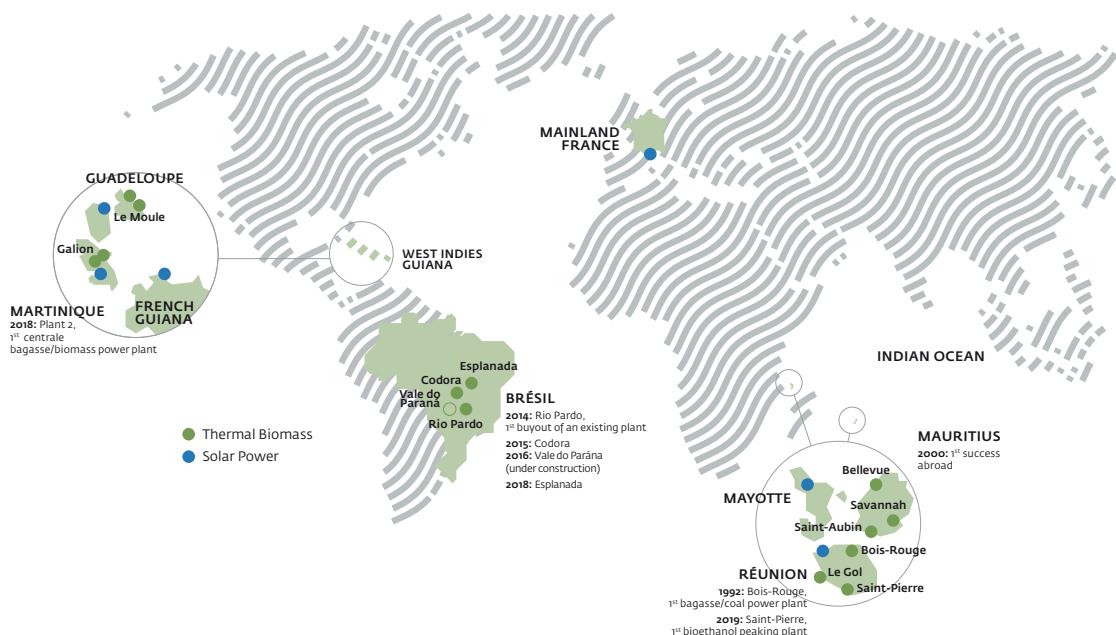
Albioma is committed to **the energy transition**
through biomass and photovoltaics.

Albioma operates in **Overseas France, France metropolitan,**
Mauritius and **Brazil**.

For 25 years, Albioma has **developed a unique partnership** with
the sugar industry to produce renewable energy from bagasse,
the fibrous residue of sugar cane.

Albioma is the leading producer of photovoltaic energy in Overseas France, where the company builds and operates innovative projects with storage, Albioma has recently strengthened its position in mainland France.

For further information, visit our website:
www.albioma.com/en/who-are-we/



Our strategic vision, serving the territories

Our strategy
supported by
3 PILLARS

- 1** – Working on the **ENERGY TRANSITION IN THE FRENCH OVERSEAS DEPARTMENTS**
- 2** – **GLOBAL** roll-out **OF THE BAGASSE/BIOMASS MODEL**
- 3** – Developing **INNOVATIVE SOLAR PROJECTS** with storage

Biomass is at the heart of our business model in the current context of energy transition. The biomass solutions put forward by Albioma to produce renewable energy allows to:

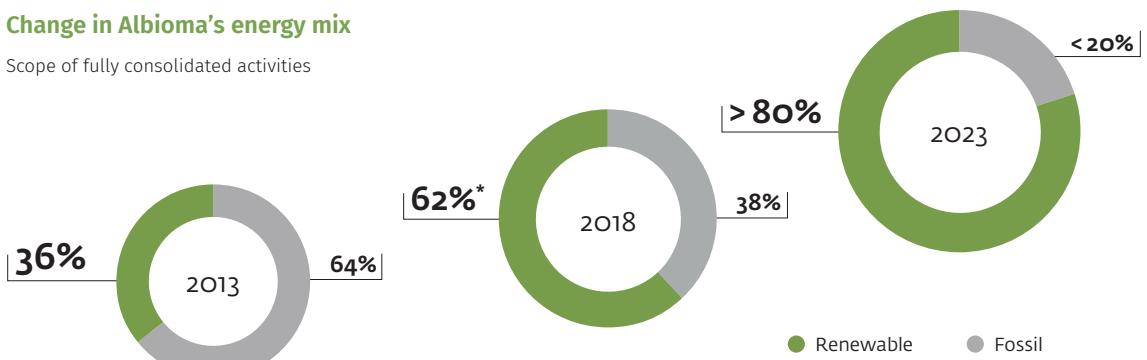
- ▶ guarantee the grid stability and allow for a higher penetration of intermittent energy sources, like photovoltaic solar, in areas where the network is weak;
- ▶ sustain local agricultural sectors to improve their competitiveness thanks to biomass energy recovery.

This explains the success of the Albioma business model in the French overseas territories and Mauritius, where we contribute to decarbonising the energy mix.

Our objective:
more than 80%
renewable
energy by 2023

Change in Albioma's energy mix

Scope of fully consolidated activities



*Mix including Albioma Solaire France (formerly Eneco) and Albioma Esplanada Energia for the full year 2018 and excluding Methaneo, sold in 2018



Biomass facility - Galion 2, Martinique

1 Working on the energy transition in the French overseas departments

It's time to change energy!

The international community is committed to fighting climate change and accelerating the energy transition. Albioma is deploying its expertise and its capacity for innovation to take up this major ecological commitment collectively set in the framework of the Climate Plan adapted in France in 2017.

Establishing our unique partnership in isolated islands and areas

We build our growth on the recovery of biomass residues, an abundant resource that is currently under-exploited.

A biomass plant is producing electricity and thermal power through the heat generated from the combustion of the organic matter. In particular: agriculture residues, industrial pallet shreds, logging debris and bagasse are used a fuel.

For more than 25 years, Albioma has been developing a unique partnership with the sugar industry that allows us to transform bagasse locally into energy thanks to power stations located in the vicinity of the sugar cane plants. Thanks to this model, we ensure the stability of the power grids in Overseas French territories and other isolated areas. This model allows us to produce renewable energy, available 24h/7d (base load).

Biomass at the heart of energy development in Overseas territories.

- The biomass used for the energy recovery is coming from usage where no conflict of interest exists.
- Local biomass contributes to the economic and social dynamism of our territories, including creation of new job opportunities.
- The imported biomass comes from sustainably managed forests certified by third party organisations.



Thermal power plant - Albioma Le Moule, Guadeloupe

The biomass conversion of our thermal power stations: a major challenge for the Group

Albioma is committed to use 100% biomass by 2023. Replacing coal with biomass at our power plants is part of our strategy and contributes to the energy transition in accordance with the objectives set in the French Energy Master Plan (PPE).

The exit from coal will take place by 2023 through use of sustainable and traceable biomass:

- ▶ Locally sourced biomass target of 30%-40% in the long term
- ▶ Sustainability of the resource (certifications such as FSC, PEFC)
- ▶ Traceability procedure in accordance with the EU Timber Regulation (EUTR) and Albioma's sustainability chart.

Focus on Albioma Le Moule in Guadeloupe

The ALM 3 plant, with an installed capacity of 34 MW, produces about 260 GWh of electricity per year (about 15% of the territory's total electricity requirements).

By 2020, the plant will operate exclusively on biomass. This conversion is in line with the objectives of the energy transition act for green energy growth, which stipulates, 50% of renewable energy in energy mix from 2020. This will raise the share of renewable energies in Guadeloupe's energy mix to about 35% (compared with 20.5% in 2017). Once converted to biomass, the power plant should reduce its emissions by more than 265,000 tonnes of CO₂ equivalent per year, a reduction of about 87% compared to its current coal operation*.

* Calculation carried out taking into account all the emissions on the whole chain (in particular transport).

Two thermal power plants to accelerate the energy transition

GALION 2 – La Trinité, Martinique



First 100% bagasse/biomass power plant in Overseas France

With an installed capacity of 40 MW, this plant, provides electricity all year round to the Martinique grid from the combustion of bagasse and other local forms of biomass including plant and timber residues from sustainably managed forests.

A unique partnership with the sugar industry and a strong local impact

Galion 2 also produces steam to supply the Galion's sugar refinery as part of a virtuous exchange. It allows the creation of more than 40 direct jobs and contributes to sustaining the agricultural, economic, industrial and social fabric of Martinique.

This plant increases threefold the renewable electricity production on the island (from 7% to 22%) and contributes to the shift towards a low-carbon energy mix in Martinique in compliance with the strictest environmental standards.

100%
bagasse/biomass

40 MW
24/7

Combustion turbine at Saint-Pierre, Réunion Island

A global first of its kind

The combustion turbine is built to be run with bioethanol obtained from the distillation of sugar cane molasses that is produced locally at the Rivière du Mât distillery.

80%
bioethanol

Provide peak energy, in addition to other means of production on the island

The 41 MW combustion turbine is a flexible and highly reactive installation designed to start up in less than seven minutes. It manages the peak-load frequently appearing at the end of the day and helps stabilize the Réunion Island grid. The Albioma combustion turbine facilitates the integration and management of other renewable energy sources, such as solar power.

41 MW
security of the network





Terragen power plant - Mauritius

2 Global roll-out of the bagasse/biomass model

Since 2000, with Mauritius, we have successfully developed our partnership model with the agro-industrial sector and today we produce 45% of the electricity on the island.

The unique know-how we have built up over the years enabled the Group to export its bagasse/biomass model to Brazil, the world's leading producer of sugar and ethanol. Brazil remains one of the international priorities for the coming years.

With the ambition of continuing the development of its business model and grow at a sustained pace, Albioma is studying other opportunities for biomass power plant development. This development is run according to Albioma's sustainability chart, ensuring that there is no conflicting interest related to the raw material used.

Key figures 2018 Thermal Business

13
power plants

2,3 Mt
of biomass residue recovered

359
employees

466 MW
in the Indian Ocean

182 MW
in the West Indies

120 kWh
exported to the network per tonne of sugar cane in the overseas departments

168 MW
in Brazil

x2
doubling average exports by tonne of sugar cane in Brazil thanks to the takeover of operations by Albioma

Energy efficiency Albioma's recognised expertise in Brazil

An exceptional market

Brazil is the world's leading producer of sugar cane (700 million tonnes of sugar cane in Brazil compared with 2 million tonnes on Reunion Island).

There are currently more than 340 sugar refineries operating in Brazil, making it the world's most important market for bagasse-based energy production.

A booming market

The Brazilian electricity market offers strong growth perspectives. According to the latest version of the energy development plan, an annual growth of 2.3% is expected. 7% of the country's electricity is produced by recovering bagasse.

The Brazilian sugar companies have been operating for many years and several of them are in need for technology improvements to ensure future competitiveness. On average, a Brazilian bagasse cogenerations export 50 kWh per tonne of sugar cane compared with 120 kWh per tonne of sugar cane for the Albioma power stations in the French overseas departments. Starting, Albioma took an interest in the market helping the local industry to become more efficient as well as greener.



Thermal power plant - Rio Pardo, Brazil

2013

beginning of prospection in Brazil

2014

acquisition of Rio Pardo

2015

acquisition of Codora

2016

signature of the Vale do Paraná project (commissioned 2021)

2018

acquisition of Esplanada



Photovoltaic plant - Silo Jarry, Guadeloupe

2018 key figures for the solar business

51
employees

31 MW
in the West Indies and
in French Guiana

33 MW
in the Indian Ocean

30 MW
Mainland France

>20%
EBITDA Group

*including Spain and Italy

3 Developing innovative solar projects with storage

Solar, an inexhaustible energy with considerable technological potential

Benefiting from its presence in some of the most sunny regions round the globe, the Group has been a key player in the production of photovoltaic energy in the French Overseas territories since 2006. To offset the intermittent nature of solar energy, the Group's photovoltaic projects include storage technology.

This high added-value technology significantly increases the availability of the installation, manage and smoothen the output during the day (to cope with cloudy spells or bad weather, etc.) leading to increased grid stability.

Triple certification of the solar business and respect for land use, at the heart of our projects

Albioma's entire solar business is certified ISO 9001, ISO 14001 and ILO OSH 2001. Albioma respects strict environmental, health and safety and quality management standards. Albioma manages a photovoltaic portfolio split evenly between rooftop and ground-mounted power plants.

Particular attention is given to visually integrating the projects and managing potential conflicts in terms of land use.



Photovoltaic power plant - Alixan, mainland France

Albioma Solaire France, a new name for a strengthened presence in mainland France

Albioma announced the acquisition of 100% of Eneco France, an innovative solar specialist in December 2018.

Created in 2008 and with an innovative positioning in power generation for onsite self-consumption, this entity develops, builds and operates photovoltaic plants on rooftops and agricultural facilities at private or industrial sites in the South of France.

The Group owns photovoltaic plants with an installed capacity of 17 MW and has an extensive portfolio of projects under development.

This acquisition offers the opportunity to intensify our positioning and our expansion in the solar power sector in mainland France, to round out the 8 MW already installed in the country.

Plant with storage at Port Ouest, Reunion Island

Commissioned in February 2019, Port Ouest is the first commissioned power station which won the 2016 Energy Regulation Board tender for the construction and operation of photovoltaic solar power plants with energy storage located in non-interconnected areas.

Integrated in the territory, the plant is located in two industrial buildings dedicated to port activities.

With a total capacity of 1.34 MWp, it is equipped with Li-Ion energy storage batteries with a capacity of 1.33 MWh.



Our employees, ensuring our success

Key figures for 2018

500
employees

26
hours of training on
average per employee

4%
interns, VIE volunteers and
work-study students

30%
women as a percentage of
newly recruited employees

We strive to build a great company to work for and provides our employees with a modern professional environment that is conducive to personal fulfilment and collective performance. We want our employees to take pride being part of a company that serves the population and committed to the energy transition.

Our priority is the safety of the Group's employees. We have set up a 5-year safety master plan that has given very encouraging results. We work every day in a process of continuous improvement. We ensure that safety is at the heart of all our decisions.

We encourage our employees to continually develop their skills and we support them through training, ensuring equal opportunities and strive for diversity.

We also support local employment. Our employees' knowledge of local operating conditions, economic conditions and stakeholders is invaluable for the Group's business. Albioma is a key player when it comes to ensure the sustainability of the local industry and agricultural development.





Key figures for safety 2018

Accident frequency rate

11.7

i.e. a reduction of 47%
compared with 2017

Accident severity rate

0.38

i.e. a reduction of 58%
compared with 2017

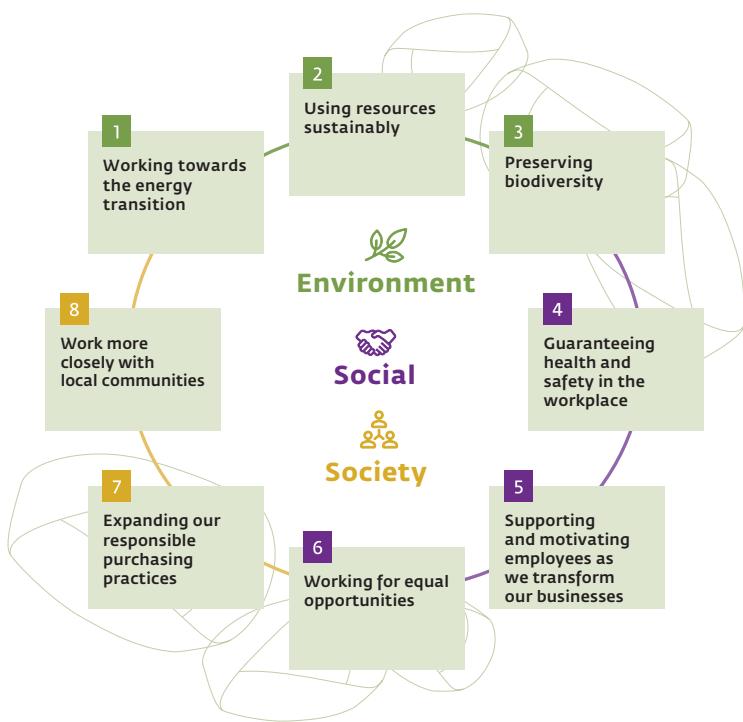


For further information, visit our website:
www.albioma.com/en/careers/

Our CSR approach; at the heart of the Group's strategy

Albioma has defined as a strategic priority the increase of the share of renewable energy in its energy mix, bringing it to more than 80% by 2023.

This objective concerns all of our activities, across the world. This is materialised by a clear CSR approach, broken down into 8 strong commitments, based on 3 pillars: Environment, Social, Society.



Some concrete actions

Environment:

In Mauritius, employees at the Saint-Aubin plant carried out a «clean beach» operation on Riambel beach: at the beginning of the year, they collected 8 tonnes of wood and 2 tonnes of plastic waste in one day! A citizen action aimed at raising the general public's awareness regarding environmental issues.

Social:

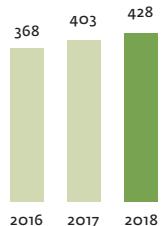
On 31 December 2018, our two Brazilian plants Rio Pardo and Codora celebrated 1,288 days and 1,053 accident free days, respectively. The safety and integrity of our employees is at the heart of our concerns.

Society:

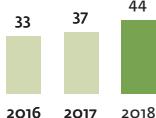
Albioma contributes throughout the year to make the energy professions known to local communities and young people in particular, notably by organising visits to the photovoltaic plants of Lasalle in Martinique and Kourou in French Guiana.

Financial overview

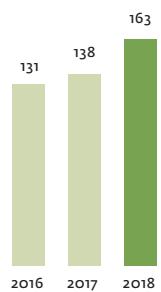
Revenue (in €m)



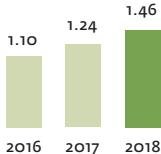
**Net profit
Group share (in €m)**



**Gross operating profit
(EBITDA) (in €m)**



**Earnings
per share (in €)**



Key figures for 2018

€428m
Revenue

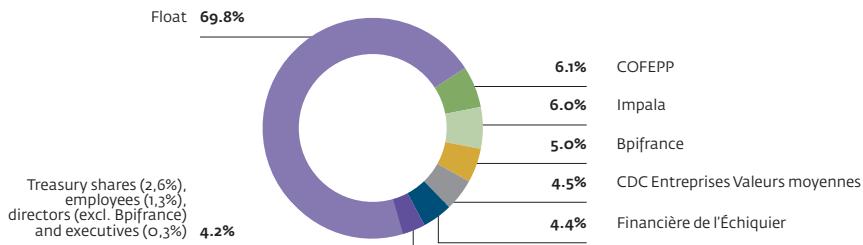
€163m
gross operating profit
(EBITDA)

€44m
Net income, Group share

€1.46
Earnings per share

Albioma is listed
on Euronext Paris,
Compartment B -
SRD, PEA, PEA-PME

Shareholder structure as at 31 March 2019



Read all our publications on www.albioma.com



**It's time to change
energy!**

Tour Opus 12
La Défense 9
77 Esplanade du Général de Gaulle
92914 La Défense cedex - France

T.: +33 (0)1 47 76 67 00
contact@albioma.com



ALBIOMA