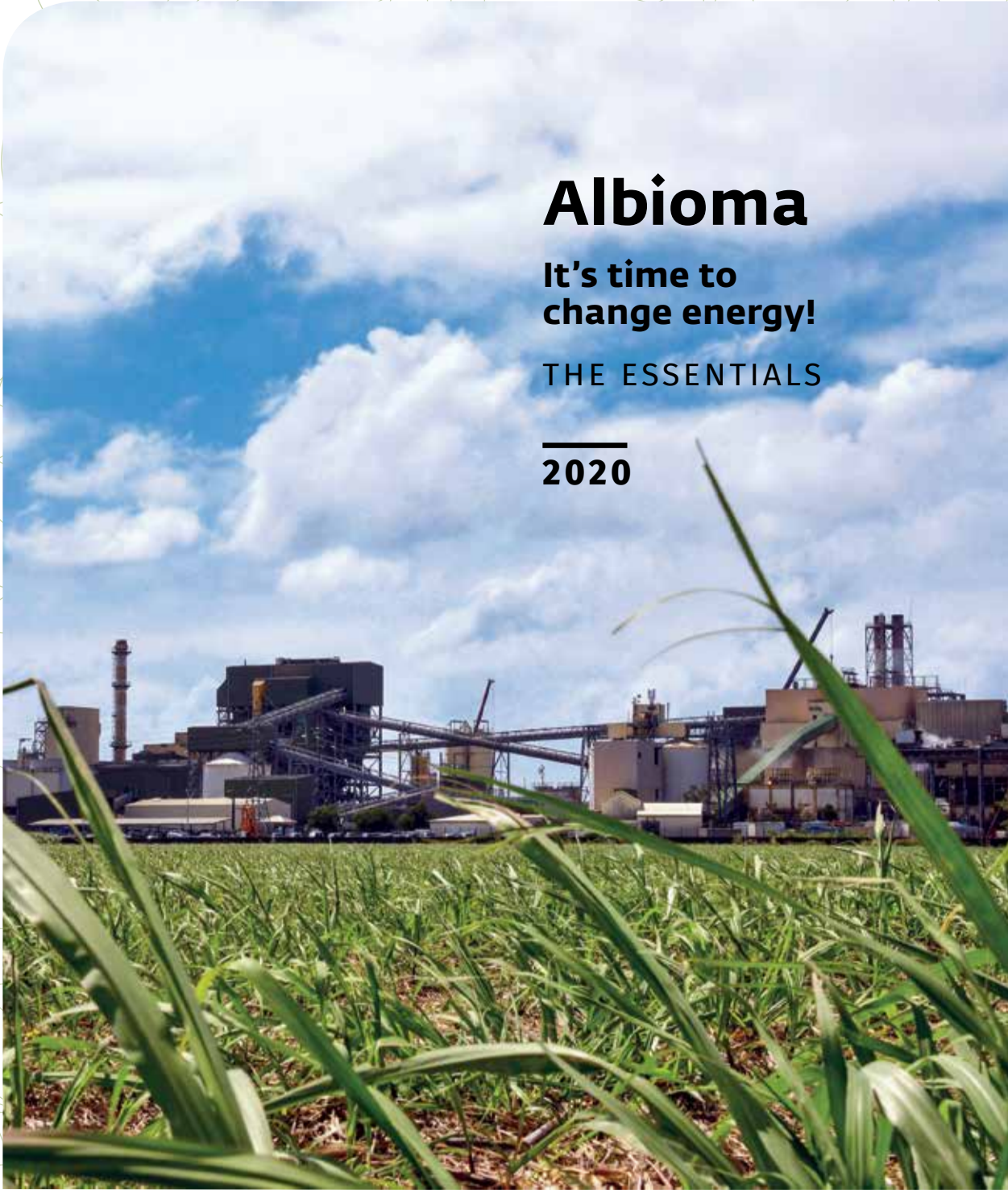
Albioma

It's time to change energy!

THE ESSENTIALS

2020



Albioma Bois-Rouge, Reunion Island

ALBIOMA

Albioma,
Independant producer of renewable energy

Key figures for 2019

567
employees
(excluding Mauritius)

€506 million
in revenue

2.6 million
people supplied
with electricity

≈1 GW
total capacity

Albioma is committed to the **energy transition,** harnessing biomass and photovoltaic energy.

The Group operates in **Overseas France, metropolitan France, Mauritius** and **Brazil.**

Over the past 25 years, we have developed a **unique partnership** with the sugar industry, producing renewable energy from bagasse, a fibrous residue of sugar cane.

Albioma is also the **leading producer of photovoltaic energy** in Overseas France, where we build and operate innovative projects with integrated storage capabilities, and we have recently strengthened our position in solar power in metropolitan France.

This booklet was produced in April 2020, during the Covid-19 health crisis. At the time of publication, the crisis has only marginally impacted our activities, and all our plants have been keeping operating for the regions we serve. Our construction works have been temporarily suspended, however.

Our strategic vision, serving our communities

Our strategy rests on 3 PILLARS

1 – Powering the **ENERGY TRANSITION IN OVERSEAS FRANCE**
2 – Rolling out **ALBIOMA'S EXPERTISE INTERNATIONALLY**
3 – Accelerating our **DEVELOPMENT IN SOLAR POWER**

As the energy transition gathers pace, the solutions developed by Albioma enabling stable, renewable biomass-fuelled energy production:

- ensure the stability of the electricity networks into which this power is injected, enabling a greater share of other, intermittent renewable energy sources such as solar power, particularly in areas with a vulnerable electricity network;
- organise and protect local agricultural sectors, which are enhancing their competitiveness by recovering biomass for energy.

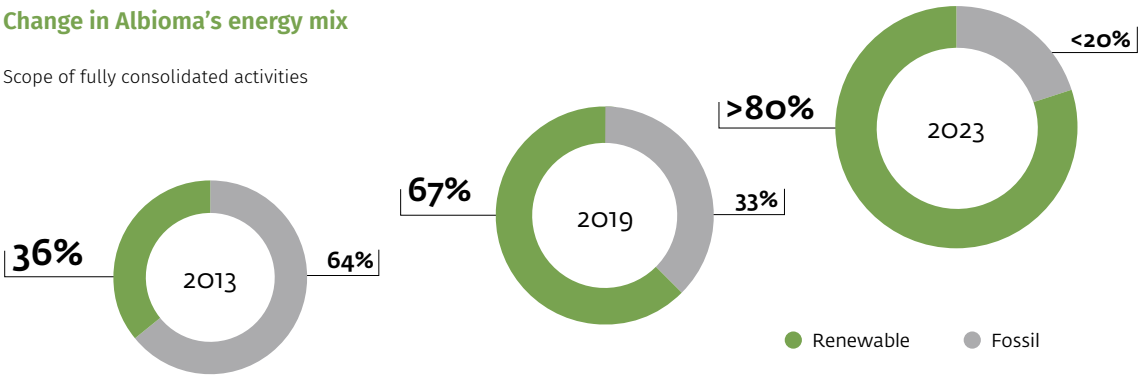
This accounts for the success of Albioma's model in Overseas France and Mauritius, where we are working in partnership with the sugar industry to decarbonise the energy mix.

Accordingly, biomass is the backbone of our development model in the communities we serve.

Our target:
more than 80% renewable energy by 2023

Change in Albioma's energy mix

Scope of fully consolidated activities



Biomass shed - Galion 2, Martinique

1 Powering the energy transition in Overseas France

It's time to change energy!

The international community is committed to fighting climate change and accelerating the energy transition. At Albioma, we are deploying our expertise and innovative capabilities to take up this major collective environmental commitment, defined in the Climate Plan adopted for France in 2017.

Establishing our unique partnership model in isolated islands and regions

Our growth is built on the recovery of biomass residues, an abundant yet currently under-exploited resource.

Energy from biomass can be used to generate electric power by harnessing the heat released by burning organic matter.

Various forms of plant waste are used as fuel, including agricultural waste such as shredded shipping pallets, forestry waste and in particular, bagasse, a fibrous residue of sugar cane produced by the sugar extraction process.

For more than 25 years, Albioma has been developing a unique partnership with the sugar industry, enabling local bagasse-to-energy conversion at power plants sited near sugar refineries. Operating this model, we ensure the stability of electricity networks in Overseas France and regions cut off from continental power generation in extremely competitive economic conditions, without compromising the resource use hierarchy. This model enables us to generate renewable base-load electricity on a 24/7 basis.

Tackling energy challenges in Overseas France with biomass

- Biomass-to-energy must be the final use for this material.
- The emergence of local biomass supply chains is contributing to economic and social development in the regions in which we operate.
- Any imported biomass is sourced from sustainably-managed forests. Imported biomass is independently certified.

Conversion of our power plants to all-biomass operation **maximising the share of renewable energy**

Replacing coal with biomass at our power plants is part of our strategy to support the energy transition in Overseas France, in line with the objectives defined in the French government's multi-year energy plan.

We will be phasing out coal use in favour of sustainable, traceable biomass, gradually increasing the share of renewable energy in our mix to 80% by 2023:

- **Long-term target of sourcing approximately 30% of biomass locally**
- **Sustainable resource management (via FSC & PEFC certifications, etc.)**
- **Traceability procedure in accordance with the EU Timber Regulation (EUTR)**

Conversion of the Le Moule plant in Guadeloupe

The first of the Group's power plants concerned by the conversion programme is ALM 3, which has an installed capacity of 34 MW and generates approximately 260 GWh of electricity annually (representing around 15% of the region's total electricity consumption).

By the end of 2020, the plant will be fuelled exclusively by biomass. This conversion, on which work began in 2019, is consistent with the aims of France's Energy Transition for Green Growth Act, which stipulates that 50% of final energy consumption in these territories must be covered by renewable sources with effect from 2020. This project will increase the share of renewables in Guadeloupe's energy mix to approximately 35% (compared with 20.5% in 2017). Converting the plant to biomass should cut its annual atmospheric emissions by more than 265,000 tonnes CO2 equivalent, representing a reduction of around 87% from current levels with coal-fired operation*.

** Calculation includes all emissions at every stage of the chain (including transportation).*

The biomass storage dome at the port of Jarry in Guadeloupe

The biomass storage dome was erected in February 2020. This 20,000 cu. m dome located in the port consists of an outer tarpaulin inflated by fans, strengthened internally by a 5 cm thick layer of polyurethane foam and consolidated with between 15 and 40 cm of reinforced concrete. This structure ensures that biomass can be stored safely in weathertight conditions.

Two new plants **showcasing their efficiency**

100%
bagasse/biomasse

40 MW
24/7

Galion 2 – La Trinité, Martinique (2018)

First all-bagasse/biomass power plant in Overseas France
This plant burns bagasse, a fibrous residue of sugar cane, as well as other local forms of plant biomass and wood residues from sustainably managed forests, to generate renewable electricity for the Martinique grid all year round.

This new facility has tripled the share of renewable electricity produced on the island (from 7% to 22%).

A unique partnership with the sugar industry, and a major local impact
Galion 2 also supplies steam to the Galion sugar refinery. The plant has enabled the creation of more than 40 direct jobs and is helping to sustain Martinique's agricultural, economic, industrial and social fabric.

Combustion – Saint-Pierre, Reunion Island (2019)

A world first
The combustion turbine plant will operate mainly (80%) using bioethanol produced by distilling sugar cane molasses, produced locally at the Rivière du Mât distillery.

Supplying peaking power to supplement the island's other power generation facilities
The combustion turbine is a versatile and extremely agile power plant. Designed to start up in less than seven minutes during periods of peak consumption, it helps to ensure security of supply for the Reunion Island grid. It facilitates the network integration and management of other forms of renewable energy.

80%
bioethanol

41 MW
network dependability

Compliance works **at our industrial facilities** to uphold environmental standards

Thermal electric power generation, like many other industrial activities, emits combustion fumes that must be treated to minimise their environmental impact.

Between 2016 and 2019, Albioma invested massively to install new fume treatment systems at the Group's plants, using the best available techniques, in order to reduce atmospheric emissions (with a particular focus on nitrogen dioxide, sulphur dioxide and particulate emissions).

These new systems are now operational at Le Gol and Bois-Rouge plants on Reunion Island, and have been installed at Le Moule in Guadeloupe, where they routinely deliver excellent performance.

Albioma Bois-Rouge thermal power plant on Reunion Island

Terragen power plant - Mauritius

2 International roll-out of Albioma's expertise

In Mauritius, where the Group has been operating since 2000, we have successfully developed a partnership model with the local agricultural and industrial sectors, and now generate 45% of the island's electricity.

In 2014, our unique know-how enabled the Group to roll out this innovative model to Brazil, the world's leading producer of sugar and of ethanol obtained from sugar cane.

Brazil naturally remains our international priority for the coming years.

Keen to continue rapidly developing the Group's model, Albioma is also studying other opportunities involving biomass-to-energy projects free from conflicts of use, as well as other forms of renewable energy.

Key figures for 2019 thermal business

13
plants

3 Mt
Biomass waste recovered

405
employees

466 MW
in the Indian Ocean

182 MW
in the West Indies

129 kWh
exported to the grid per tonne of sugar cane in the French Overseas Departments

193 MW
in Brazil

x 2
average increase in exported power per tonne of sugar cane achieved in Brazil when plant operation is transferred to Albioma

Energy efficiency **Albioma's recognised expertise in Brazil**

Thermal power plant - Rio Pardo, Brazil

An exceptionally deep market

Brazil is the world's leading sugar cane producer (with 700 million tonnes of sugar cane grown 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 deepest market for bagasse-based energy production.

A booming market

The Brazilian electricity market offers strong growth prospects. According to the most recent version of the energy development plan, the energy market is expected to grow at a rate of 2.3% per year. Currently, 7% of the country's electricity is generated by recovering bagasse.

However, the bagasse recovery efficiency of Brazilian sugar mills is sub-optimal. On average, Brazilian bagasse cogeneration plants export 50 kWh per tonne of sugar cane, compared with 120 kWh per tonne for Albioma's plants in Overseas France.

The scale of these potential productivity and energy efficiency gains is what first prompted Albioma to take an interest in this market in 2013.

2013
Prospecting begins in Brazil

2014
Acquisition of Rio Pardo

2015
Acquisition of Codora

2016
Vale do Paraná project agreed (for commissioning in 2021)

2018
Acquisition of Esplanada

Photovoltaic installation - Stade de l'Est, Reunion Island

Key figures for 2019 solar power business

61
employees

34 MW
In the West Indies & French Guiana

34 MW
In the Indian Ocean

33 MW
In metropolitan France*

≈ 20%
Group EBITDA

** Including Spain and Italy*

3 Accelerating development in solar power

Solar power - An inexhaustible energy source with considerable technological potential

Taking advantage of our presence in very sunny regions, the Group has been a key player in the photovoltaic power sector in Overseas France since 2006. Some of the Group's photovoltaic power plant projects include storage technologies to address the challenges posed by the intermittent nature of solar energy.

This technology significantly increases plant availability, stabilises and guarantees output over the course of the day (to cope with cloudy spells or changing weather conditions, for example), and to make production more predictable.

Triple certification for the Solar Power business, while avoiding land-use conflicts

Albioma has obtained ISO 9001, ISO 14001 and ILO OSH 2001 triple certification covering the full scope of the Group's Solar Power business. Albioma complies with strict environmental, occupational health and safety and quality management standards.

The Group operates a photovoltaic fleet split evenly between rooftop and ground-array power plants.

Particular attention is given to integrating these projects into their host communities, including managing potential land-use conflicts.

Photovoltaic installation - Aven d'Orgnac, metropolitan France

In December 2018, Albioma acquired Eneco France, an innovative solar power specialist

Created in 2008, with an innovative positioning in power generation for onsite consumption, this entity develops, builds and operates photovoltaic plants on rooftops and agricultural buildings at industrial sites throughout France.

This acquisition offers Albioma the opportunity to intensify its expansion in the solar power sector in metropolitan France, rounding out the 8 MW already installed in the country.

Now renamed Albioma Solaire France, the entity owns a photovoltaic fleet with an installed capacity of 25 MWp and has an extensive portfolio of projects under development.

This strategic acquisition testifies to the importance Albioma places on solar power as part of the Group's energy mix.

What sets us apart...

- Expert teams in every region
- Proven financial strength
- Trust-based partnerships with public institutions (including schools, sports centres, etc.) and private-sector operators

Solar power projects totalling 17 Mwp in Overseas France

On 2 April 2020, Albioma was awarded contracts representing a combined capacity of 17 MWp arising from the French government's July 2019 call for tenders for "ground-array and rooftop photovoltaic projects in non-interconnected areas in the French overseas territories."

This capacity is distributed across 27 projects (8 with storage and 19 without storage) located in the overseas regions where Albioma is already present: Reunion Island, Mayotte, French Guiana and Guadeloupe.

Construction of these projects is scheduled to begin in 2021.

Our CSR approach underpinning the Group's strategy

Solid non-financial performance

ESG rating: 59/100

vigeo eiris

Solid ESG performance (up 9 points year-on-year), ranked in the industry top 20 (out of 65 rated companies).

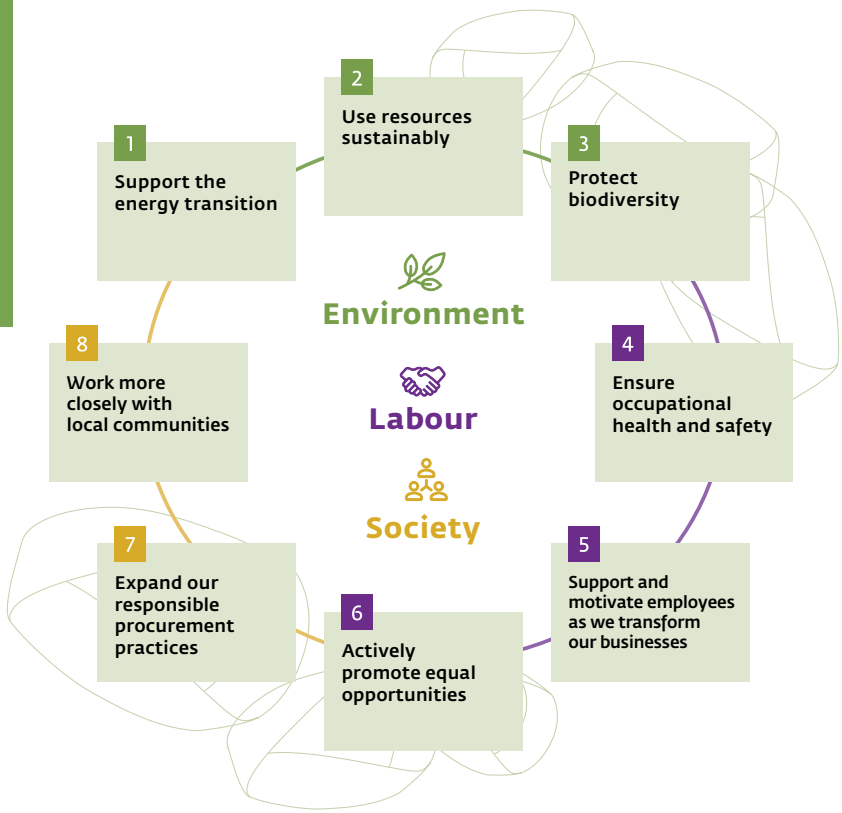
Gaïa RATING

Albioma has earned a coveted place in the Gaïa index, which honours the companies with the best performance, out of a panel of 230 small- and medium-sized firms.

Albioma's sustainable development policy sets out a clear, ambitious approach in support of the Group's strategy.

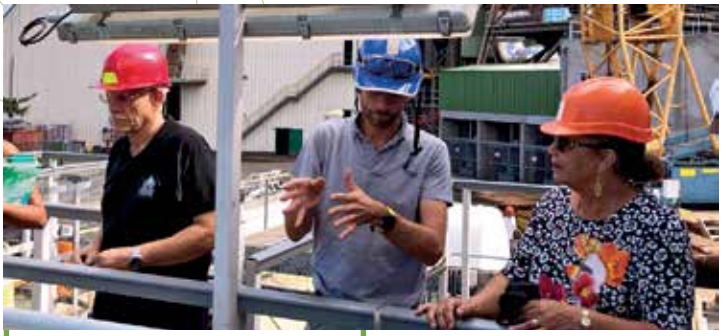
This policy is presented in the form of a five-year roadmap, organised around the three pillars of corporate social responsibility. Each of these is accompanied by commitments and objectives relating to emerging challenges for our society, which Albioma can help to tackle through our activities.

This approach, applicable to all our activities worldwide, is a powerful transformative tool for the Group.



Practical examples

Commitment to preserve biodiversity on Mauritius by cleaning Riambel beach, a well-known gathering place for turtles and dolphins.



Water conservation initiative in Guadeloupe, based on improved monitoring and treatment of stormwater and industrial waste water.

Development aid and solar power in Madagascar: solar-powered street-lighting system for the village of Akamasoa.

Our employees driving our success

We strive to build a great company to work for, and to offer employees a modern, professional working environment that is conducive to personal fulfilment and collective performance.

We want all our employees to feel proud to work with a company that provides an essential service to the community and is fully invested in the energy transition.

Employee safety is our top priority. Accordingly, after a period of extensive consultations, we introduced a five-year safety master plan, which is delivering very encouraging results. Our routine activities are conducted in a continuous improvement approach. We systematically consider the safety implications of everything we do.

We encourage employees to continuously develop their skills, and support them in their changing professions. We are committed to ongoing training, equal opportunities and diversity.

We also support local employment. Our employees' knowledge of local operating conditions, economic conditions and partners is invaluable for the Group's activities.

We are also a strategic stakeholder in the local agricultural and industrial fabric.

HR key figures for 2019

567
employees
(excluding Mauritius)

34
hours of training per employee (on average)

6.4%
Interns, VIE volunteers and work-study trainees

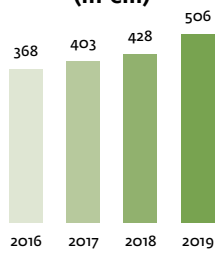
33%
of new hires in France are female

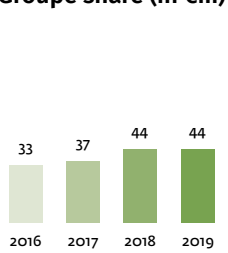
Safety key figures for 2019

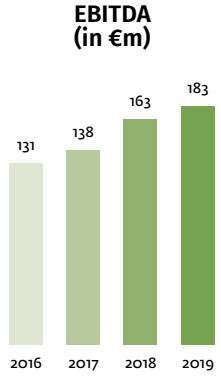
Accident
6.2
33% lower than in 2008

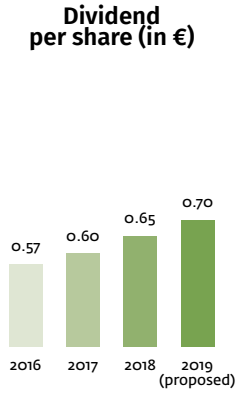
Accident
0.22
44% lower than in 2018

Financial overview









Key figures for 2019

€506 million
Revenue

€183 million
EBITDA

€44 million
Net income, Group share

€0.70
Dividend per share

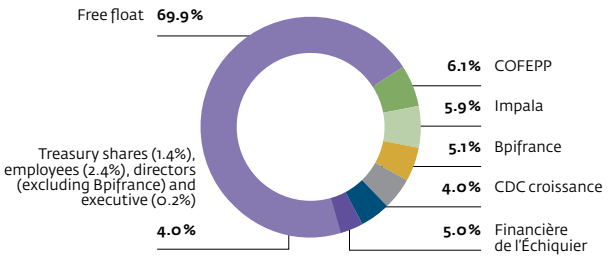
Albioma is listed on the Euronext Paris compartment B, is eligible for the deferred settlement service (SRD), PEA and PEA-PME plans and is included in the SBF 120 and CAC Mid 60.

Liquidity

DAILY TRADING VOLUME (Average over 6 months)	**94,000 shares, of which 38,000 via Euronext**
DAILY VOLUME (Average over 6 months)	**€2.5 million, of which €1 million via Euronext**

Source: Bloomberg on 24/02/2020

Shareholder structure as at 31 March 2020



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