

PAPREC GROUP

ENGLISH VERSION



Editorial



Jean-Luc PETITHUGUENIN
Paprec group founder and CEO

A firm believer in the importance of recycling, I decided to form my own group in 1994 by taking over Paprec, a 40 employee SME based in La Courneuve (93). Our family-owned group now has more than 12,500 employees and, this year, will have a turnover of 2 billion euros. Almost 50,000 industrial customers and 6,000 local authorities put their trust in us.

The group's strong growth has confirmed my initial intuition; waste is now the raw material of the 21st century. Recovering it in the form of material or energy helps to save natural resources and reduce CO₂ emissions, and this in turn is beneficial in terms of the decarbonisation of industry and the fight against climate change.

If we aim to become France's leading circular economy company, we need to be involved in the three recovery loops. The material recycling loop is our core area of expertise, an area in which we are the leader in France. Then there is energy recovery, in which we have become a major player. The third loop is organic recovery, returning waste to the earth. In this sector, we are developing a state-of-the-art solution for which we have received an award from the European Commission.

Our growth model is based on the overriding objective of a greener planet, through a fundamental commitment to a more friendly society. Equal opportunities, diversity and secularism are part of our group's DNA.

The group is moving forward with confidence, both at home and abroad, and I shall be proud to pass it on to my children.



LE RHEU AGENCY
PAPREC TRIVALO BRETAGNE SITE

IT ALL STARTED WITH A VISION OF RECYCLING

The Paprec adventure began in 1994, at La Courneuve in the Seine-Saint-Denis département (93). Jean-Luc Petithuguenin, then a senior executive in the recycling and industrial cleaning sector with the Compagnie Générale des Eaux (now Veolia), took over Paprec, an SME specialising in the recycling of paper and cardboard. He transformed what was not much more than a craft business into an amazing industrial venture.

STRONG VALUES

Jean-Luc Petithuguenin put people at the heart of his managerial policy; the group is known and recognised for its commitment to diversity (age, education, origin, culture, etc.), secularism and the fight against all forms of discrimination in the workplace. In October 2016, the Paprec Group was awarded the Axa Global Award for Responsible Companies.

Jean-Luc Petithuguenin also won the EY Entrepreneur of the Year Award in 2012, and received the equivalent accolade at the BFM Business Awards in 2016. In 2020, he was named "Industrialist of the Year" by the Usine Nouvelle editorial staff. In 25 years, Paprec has received a grand total of 35 awards.

IN LESS THAN 30 YEARS, A 600-FOLD INCREASE IN ANNUAL TURNOVER AND MORE THAN 2 BILLION EUROS OF INDUSTRIAL INVESTMENT

The group is now the leading French waste recycler, and is known for the quality of the new raw materials it produces and sells throughout the world. Always on the lookout for innovation opportunities, we can offer the best recycling options. To broaden its expertise and cover the entire country, the group is focusing as much on internal growth as on external expansion.

A LEADER IN THE THREE WASTE RECOVERY LOOPS

Moving away from its original line of business, Paprec has expanded its offer and is now the leading player in the first waste recovery loop: "material recycling". Since 2018, Paprec has offered a new skill: energy recovery. And in 2021, we are confirming our expertise in this field with the simultaneous takeover of CNIM's O&M division and Tiru, formerly Dalkia Wastenergy. We are the third biggest energy recovery operator in France. Such is our commitment to our credo of industrial excellence, that our first steps in the third loop, organic recovery and returning waste to the earth, earned us the European Commission's sustainable development award. The group plans to develop its skills in this field very soon. Finally, Paprec is developing a disposal solution for non-recoverable final waste. The group is again France's third-biggest operator in this field.

A FAMILY-OWNED COMPANY SUPPORTED BY MAJOR INVESTORS

In 2017, as a means of financing its investment projects, Paprec raised a billion euros, 750 million of which were in the form of green bonds. These bonds were designed to finance environmental protection projects. This was the biggest issue of green bonds ever in France. In 2015, Paprec was the first French medium-size company to issue this type of bond. The Petithuguenin family has a majority holding in the company, along with financial investors (including Arkéa) and the public investment bank (BPI).

AN INTERNATIONAL VOCATION

We sell our recycled raw materials in 65 countries. Over the last ten years, Paprec has also been developing in Switzerland, where it has five plants. The arrival of the CNIM O&M division and Tiru is a new milestone in the group's international development. These two subsidiaries manage energy recovery plants in the United Kingdom, Poland, Azerbaijan, and in the French overseas départements and territories.

Paprec, France's leading recycler

KEY STATISTICS

2

**BILLION
EUROS**

turnover in 2020

280

INDUSTRIAL SITES

12 500

EMPLOYEES

16

MILLION
TONNES COLLECTED AND
TREATED

29

INCINERATORS,
PROVIDING AN ANNUAL CAPACITY OF
FOUR MILLION TONNES

THE GROUP SELLS RECYCLED
MATERIALS IN

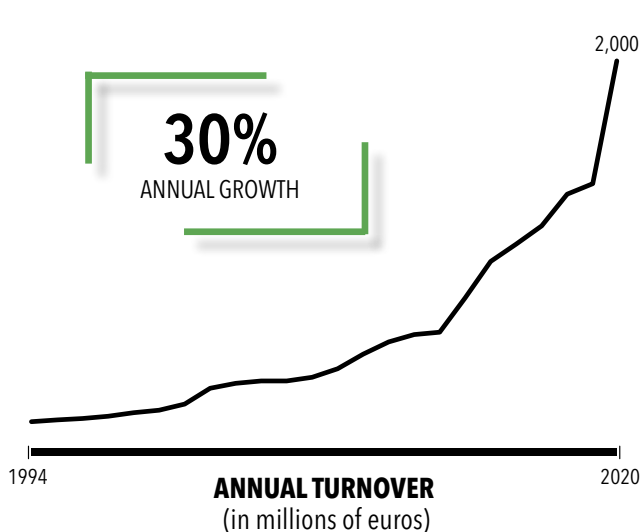
65 COUNTRIES
AND **HAS PLANTS IN
8 COUNTRIES**

DIAGRAMS

30%

ANNUAL GROWTH

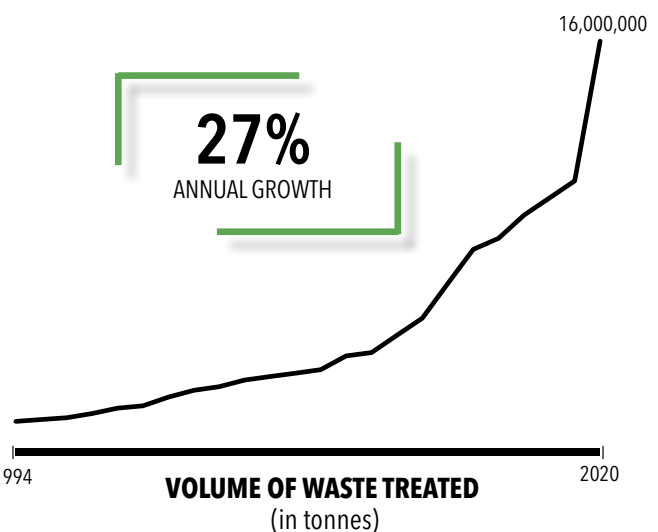
2,000



27%

ANNUAL GROWTH

16,000,000



Paprec recycles and recovers all major types of waste



8 million
tonnes

Paper
Cardboard
Plastic
Scrap metal
Other metals
Wood

General industrial waste
Bulky waste
Selective collection
WEEE
Construction waste
Scrapped vehicles



4 million
tonnes

Incineration
SRF



4 million
tonnes

Composting
Green waste
Amendment
Landfill
Methanisation
Collection of methane gas
from non-hazardous waste landfill sites

Paprec exports recycled raw materials to 65 countries

Our subsidiary FCR handles the sale of recycled raw materials for the whole Group. Every year, FCR sells almost 5 million tonnes of high quality products in 65 countries around the world.

After collection, the waste is transported to our various sites right across France. It is then sorted once again, and possibly treated, before being packed as appropriate.

After this, our subsidiary FCR takes over and sells this newly recovered material. Selling recycled raw materials was Paprec's original business, and it still remains an integral part of what we do. This task is managed by our specialist subsidiary FCR, which treats 4 main materials:

- Paper/cardboard
- Wood
- Plastic
- Scrap and other metal



Paprec operates plants in 8 countries

In 2010, our group bought the family-owned company Lottner. It became Paprec Switzerland, and the group now has 6 plants in 5 cities: Basel, Lucerne, Geneva, Zurich and Oftringen. It is now the second biggest paper and cardboard recycling company in Switzerland and recovers 200,000 tonnes of waste every year. Our Swiss subsidiary also manages other types of waste, such as general industrial waste or scrap metal, and also handles the destruction of confidential documents.

In 2021, with the acquisition of Tiru and CNIM O&M, two companies which specialise in energy recovery, Paprec now operates 2 units in the French overseas départements and territories (St Barthélemy and La Réunion), 2 energy recovery units in the United Kingdom, 1 in Poland and 1 in Azerbaijan. Finally, the group operates two non-hazardous waste landfill sites in Benin and Togo.

In addition to the British plants and the Polish projects (in energy recovery and the creation of solid recovered fuel), Paprec Energies will manage the only waste energy recovery unit in the Azerbaijani capital, Baku. With a capacity of 500,000 tonnes, this plant plays a major role in the Caucasian country's waste reduction strategy.



1 "MAJOR PROJECTS" DIVISION ON AN INTERNATIONAL SCALE

In the future, increasing amounts of waste – such as organic waste and biowaste – will be recovered and will no longer go to landfill sites. To treat this final waste, local authorities, both in France and other countries, are investing in major projects: energy recovery, methanisation and transformation into Solid Recovered Fuel (SRF). In response to this, Paprec has set up a "Major Projects" department. Among other things, the group is working with the city of Gdansk, in Poland, to develop a joint project to build an energy recovery and solid recovered fuel plant.



THE MATERIAL RECYCLING LOOP





Paprec, leader in recycling for industrial customers

Recycling is our main area of expertise. It's what makes the Paprec group special among environmental operators. Our abiding objective is to achieve the highest recycling rates technically possible - and economically viable - for our customers. We serve 50,000 industrial customers and almost 6,000 local authorities, providing them with tailored collection, sorting and recovery solutions. So we always strive for industrial excellence. We design all our specialist sorting plants using state-of-the-art technology. Incoming materials, even in bulk, are separated, so that new high quality raw materials are output, ready for re-use.

50 000
INDUSTRIAL CUSTOMERS

A TAILORED SERVICE

With 220 sites, we can manage our customers' waste locally. Through our Major Customers department, the group submits bids for national contracts and offers a delegated management service for entire industrial sites.

SERVICES OFFERED FOR COMPANIES

- Design and installation of storage equipment
- Waste collection
- Sorting and recovery
- Management of hazardous waste
- Delegated management of industrial sites or technical equipment
- Pick-up of materials



OPTIMUM RECOVERY OF CONSTRUCTION SITE WASTE

The energy transition law places an obligation on building site operators to recover 70% of their site waste by 2030. Thanks to our network of sites and our special sorting machines for this particular type of waste, we can already offer recovery rates higher than the legal requirement.



A HIGHLY SOPHISTICATED WEEE OFFER

Paprec recycles waste electrical and electronic equipment on 8 specialist sites in France. All of these meet the strictest international standards. Paprec's WEEE sorting plant at Pont-Sainte-Maxence (60), which opened in 2018, has the latest innovations available for the optimum recycling of this particular type of waste.

AN OFFICE WASTE SERVICE

The law now requires that the five flows be sorted in the case of sites and branches employing more than 50 people. La Corbeille Bleue, La Corbeille Bleue Réseau and Le Petit Plus are group subsidiaries which provide these specialist services. The group offers considerable volume and collection flexibility with guaranteed recycling rates.



CONFIDENTIAL DESTRUCTION GUARANTEED

Confidentialys provides a confidential destruction service for both hardcopy and digital documents. This service can be delivered on the customer's premises, in mobile units, or in our own plants. It is carried out under very strict security and in compliance with stringent traceability standards.

Paprec, leader in the field of technical recycling for local authorities

We provide a comprehensive service for local authorities, from collection to disposal of final waste. Specifically, we are the leader in selective collection sorting. With around thirty selective collection plants, designed using state-of-the-art technology, we can respond to the double challenge of a shortage of sorting centres and the extension of sorting regulations, which enables the collection of all plastic packaging, not just bottles. So we anticipate that we will be material recycling a higher proportion of plastic packaging.

**PAPREC HANDLES THE
SELECTIVE COLLECTIONS OF
1 IN 4 PEOPLE IN FRANCE**

800,000
TONNES OF SELECTIVE
COLLECTION WASTE



60,000
LOCAL AUTHORITY
CONTRACTS

CONTINUOUS INNOVATION

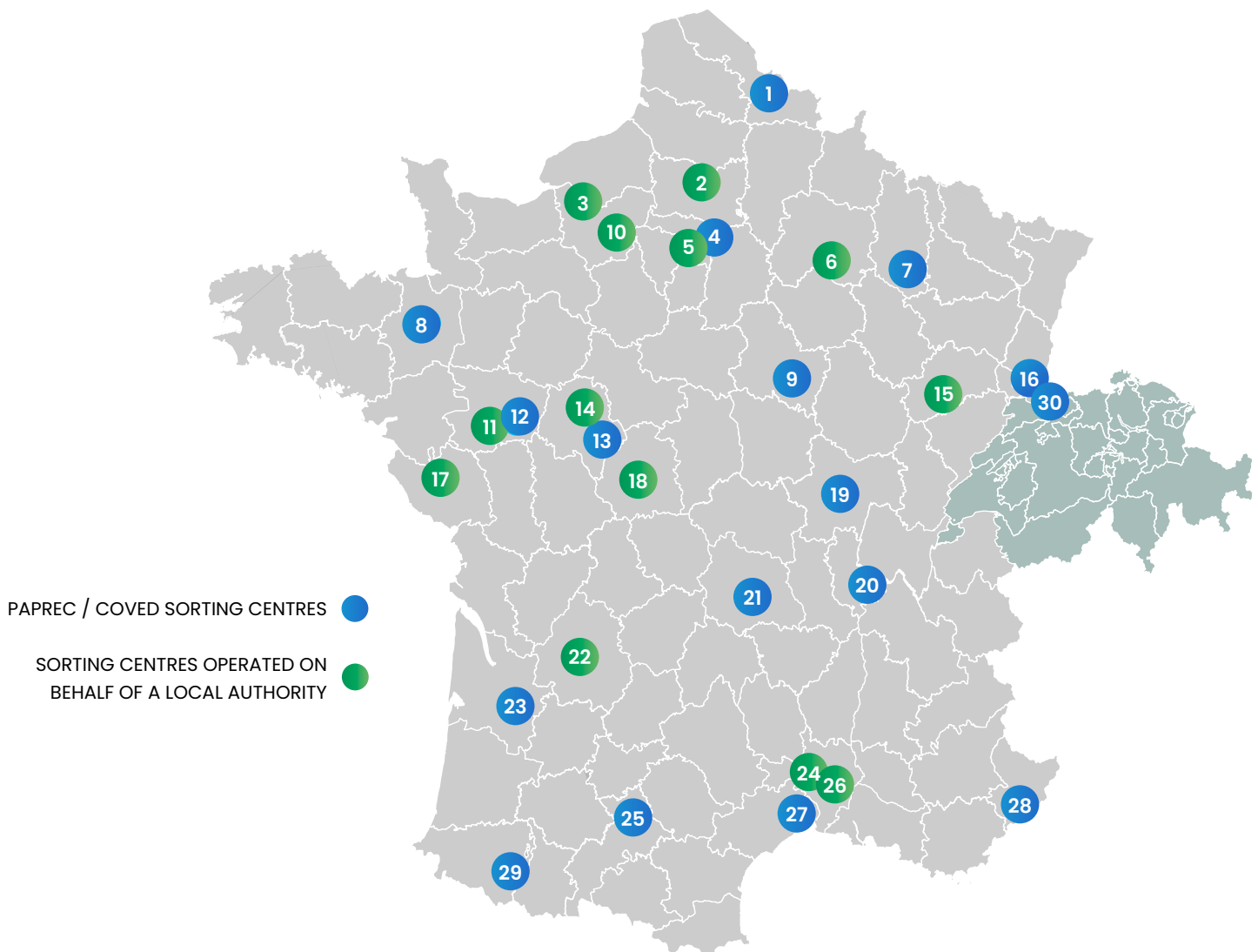
The Trivalo 69 plant, which opened in late 2019, is the first plant in France to use a sorting robot based on artificial intelligence. The Trivalo 92 plant, which became operational in mid-2021, will have two of these robots. They both speed up the sorting rate and fine-tune the sorting process.



SERVICES FOR LOCAL AUTHORITIES

- Collection of refuse and household waste
- Sorting (household waste, bulky waste, selective collection)
- Delegated management of sorting centres
- Cleaning
- Management of waste disposal sites
- Pick-up of materials
- Landfill disposal of final waste

PAPREC, THE LEADER IN SELECTIVE COLLECTION SORTING IN FRANCE



1 **PAPREC TRIVALO 62**

2 **PAPREC TRIVALO 60**
(Villers-Saint-Paul)

3 **COVED PONT AUDEMER**
(27)

4 **PAPREC TRIVALO 93**
(Le Blanc-Mesnil)

5 **PAPREC TRIVALO 92**
(Nanterre)

6 **COVED LA VEUVE**
(51)

7 **PAPREC TRIVALO 54**
(Dieulouard)

8 **PAPREC TRIVALO 35**
(Le Rheu)

9 **PAPREC TRIVALO 89**
(Ormay)

10 **PAPREC TRIVALO 27**
(Guichainville)

11 **COVED WEEE RECOVERY**
(Saint Laurent des Autels - 49)

12 **PAPREC TRIVALO 49**
(Seiches-sur-le-Loir)

13 **COVED TRIVALO 37**
(Loches)

14 **PAPREC TOURAINE**
COVED LA RICHE (37)

15 **COVED NOIDANS LE FERROUX**
(70)

16 **COVED TRIVALO 68**
(Aspach)

17 **COVED LA FERRIÈRE**
(85)

18 **COVED CHATEAUROUX**
(36)

19 **PAPREC TRIVALO 71**
(Châlon-sur-Saône)

20 **PAPREC TRIVALO 69**
(Saint-Priest)

21 **PAPREC TRIVALO 63**
(Clermont-Ferrand)

22 **PAPREC TRIVALO 24**
(Périgueux)

23 **COVED TRIVALO 33**
(Illats)

24 **PAPREC CÉVENNES VIDOURLE**
(Liouc)

25 **PAPREC TRIVALO 31**
(Bruguières)

26 **PAPREC TRIVALO 30**
(Nîmes)

27 **PAPREC TRIVALO 34**
(Lansargues)

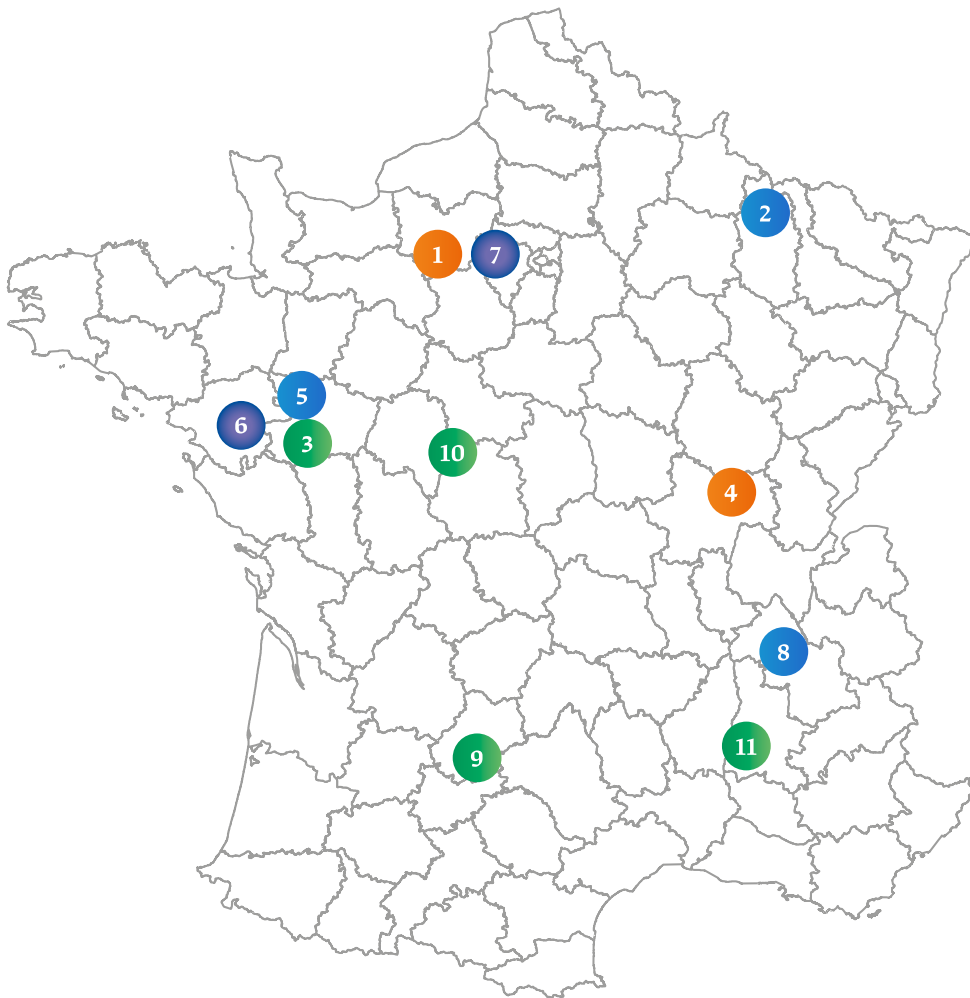
28 **PAPREC TRIVALO 06**
(Cannes)

29 **PAPREC TRIVALO 64**
(Montardon)

30 **LOTTNER BASEL**

Focusing on partnerships to develop the circular economy

Recycled plastic materials replace virgin materials and, therefore, avoid the use of natural resources. Material recycling, which is at the top of the waste treatment hierarchy, reduces energy consumption and CO₂ emissions. As a major player in the circular economy, we are developing research and development partnerships with our customers to enable us to offer our expertise in closed loop recycling, i.e. returning the material to its original use.



1 PAPREC PLASTIQUES 27
(La Neuve Lyre) – LDPE, HDPE, 25,000 tonnes

2 PAPREC PLASTIQUES 55
(Verdun) – PP, 25,000 tonnes

3 PAPREC PLASTIQUES 49
(Trémentines) – PVC, 25,000 tonnes

4 PAPREC PLASTIQUES 71
(Chalon-sur-Saône) – HDPE, 25,000 tonnes

5 PAPREC PLASTIQUES 49
(Segré) – multi-material, 8,000 tonnes

6 PAPREC PLASTIQUES 44 ATLANTIQUE
(Saint-Herblain) – metal fittings, 7,500 tonnes

7 FRANCE PLASTIQUES RECYCLAGE
(Limay) – PET

8 PAPREC PLASTIQUES 38
(Colombe) – custom grinding, 12,000 tonnes

9 PAPREC PLASTIQUES 46
(Cahors) – multi-material, 6,000 tonnes

10 ACTIPLAST
(Belligné, 49) – PVC compounding

11 FLOOR-TO-FLOOR
(Salaise-sur-Saône, 38) – PVC regeneration

PAPREC PLASTIQUES, A LEADING INNOVATOR

The group has developed 9 plants which specialise in recycling various plastic resins. These exceptionally innovative plants regenerate sorted plastics from selective or industrial collection. The ground or granulate material obtained is of very high quality and is used instead of virgin material for the manufacture of new items.



MAKING BOTTLES OUT OF BOTTLES

The European SUP (single use plastic) directive requires the use of 25% recycled PET in bottles by 2025, and 30% by 2030. Our Paris region plant, France Plastiques Recyclage, manufactures food-compatible PET from bottles obtained from selective collection. Several of our customers are even already offering 100% recycled bottles, using recycled PET (R-PET) produced in our plant.



TECHNICAL FLOORING RESIDUE, RAW MATERIAL FOR THE PRODUCTION OF NEW FLOORS

The purpose of our partnerships is to offer our customers high-quality tailored solutions. Our Paprec Plastiques 49 plant, which is based in Trémentines, has worked with Gerflor, the technical flooring specialist, to develop a production line that regenerates production or installation offcuts. This recycled PVC is then returned to the Gerflor flooring production process. A plant is to be built close to their production site in Isère to increase regeneration capacity and reduce the environmental impact of transporting goods.



THE ENERGY RECOVERY LOOP





THE SYDETOM 66 TREATMENT AND ENERGY
RECOVERY UNIT (UTVE), AT CALCE

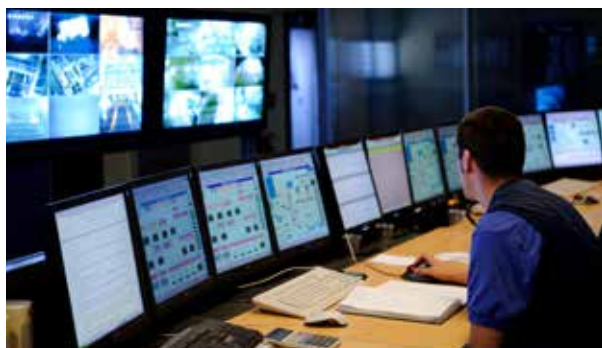
Paprec, the third biggest energy recovery operator in France

For certain types of waste, material recycling is sometimes technically impossible, or far too expensive. This waste can then be redirected to energy recovery activities. The next highest priority in the waste treatment hierarchy, as defined by European law, is energy recovery. The group entered this sector in 2018 and, in 2021, Paprec Energies Réseau (formerly Inova and CNIM Opérations & Maintenance) and Tiru (formerly Dalkia Wastenergy) became the third- biggest operator.



USING SORTING REJECTS TO GENERATE ENERGY

Sorting rejects can be turned into excellent fuel. Ground into small particles, of a defined size and diameter, solid recovered fuel is used on industrial sites which use a lot of energy, mixed with traditional fuel. It, therefore, reduces the amount of fossil fuel used by cement factories, paper mills, blast furnaces, etc.

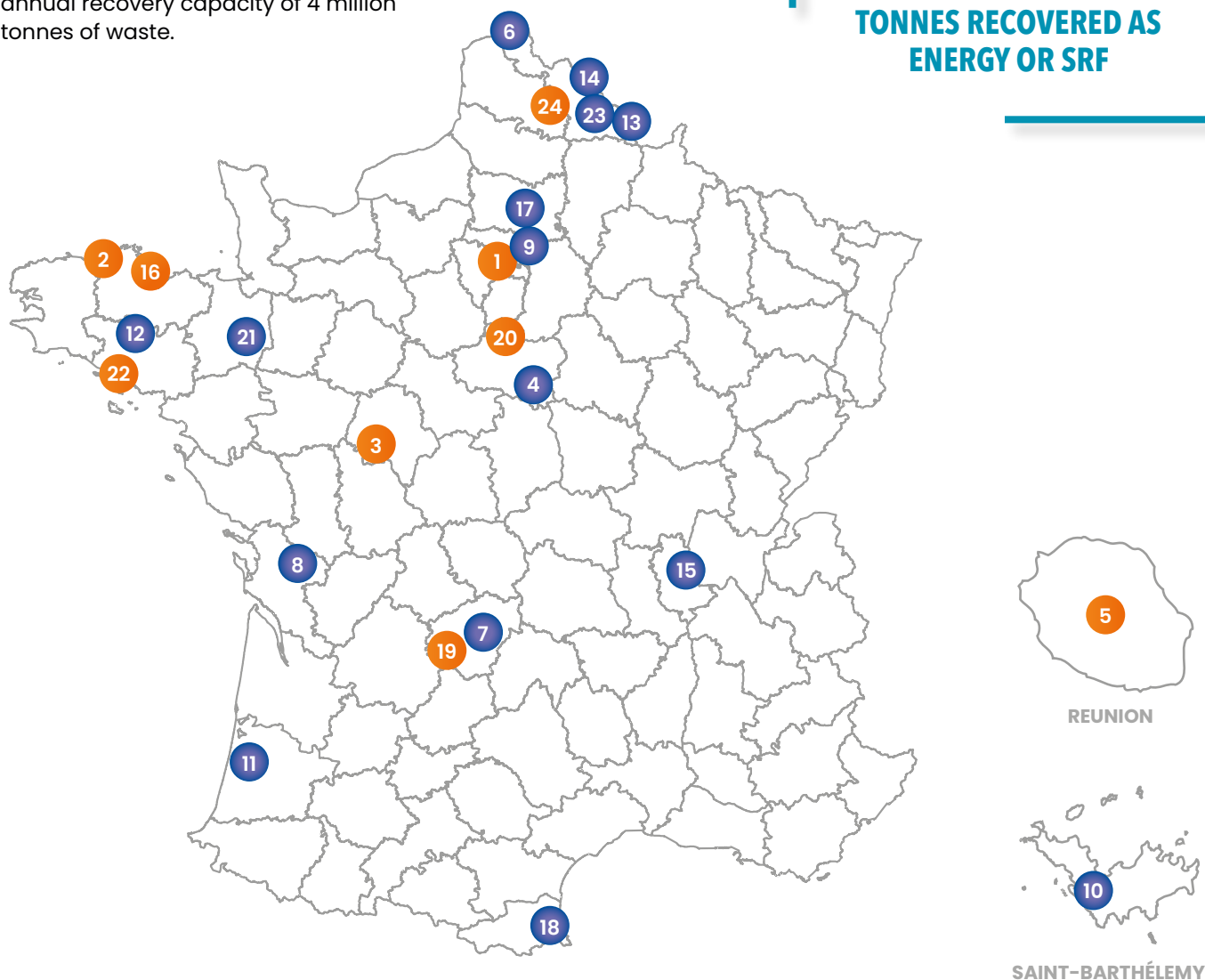


GAS OR ELECTRICITY FROM WASTE

In April 2017, a world first was achieved at the non-hazardous waste landfill site at Saint-Florentin, in the Yonne département. Engineers transformed the biogas generated by buried waste into mains gas which was fed back into the public gas system.

Paprec now manages 32 energy recovery units, including 24 in mainland France. These units have an annual recovery capacity of 4 million tonnes of waste.

4 MILLION
TONNES RECOVERED AS
ENERGY OR SRF



1 THIVERVAL-GRIGNON (78)
Paprec Energies Réseau

2 PLUZUNET (22)
Paprec Energies Réseau

3 CHINON (37)
Paprec Energies Réseau

4 GIEN (45)
Tiru

5 PROJECT: REUNION (97)
Paprec Energies Réseau

6 DUNKIRK (59)
Tiru

7 ROSIERS-D'EGLETONS (19)
30 % Tiru, 70 % Novergie

8 PAILLÉ (17)
Tiru

9 SAINT-OUEN (93)
Tiru

10 SAINT-BARTHÉLÉMY (97)
Tiru

11 PONTENX-LES-FORGES (40)
Tiru

12 PONTIVY (56)
Tiru

13 MAUBEUGE (59)
Tiru

14 SAINT-SAULVE (59)
Tiru

15 VILLEFRANCHE-SUR-SAÔNE (69)
Tiru

16 LAUNAY-LANTIC (22)
Paprec Energies Réseau

17 VILLERS-SAINT-PAUL (60)
49 % Tiru, 51 % Novergie

18 PERPIGNAN (66)
Tiru

19 SAINT-PANTALÉON-DE-LARCHE (19)
Paprec Energies Réseau

20 PITHIVIERS (45)
Paprec Energies Réseau

21 VITRÉ (35)
Tiru

22 PLOUHARNEL (56)
Paprec Energies Réseau

23 DOUCHY-LES-MINES (59)
Tiru

24 NOYELLES-SOUS-LENS (62)
Paprec Energies Réseau



**RETURNING
WASTE
TO THE EARTH**





The group organises the return of waste to the earth

The last loop in the circular economy: organic recovery or returning waste to the earth. In France, by the end of 2023, all biowaste will have to be collected at source. This waste represents no less than a quarter of French household waste, and it still almost systematically goes to landfill. This segment is set to develop significantly, and Paprec, as always, is focusing on innovation and excellence.



Transforming biowaste into energy, compost and fertiliser

The aim of the energy transition law of 2015 is to halve the amount of final waste by 2025, and also to gradually increase taxes on polluting activities.

To further recover this final waste, the group's non-hazardous waste landfill sites collect the biogas released and transform it into heat and electricity, which will then be fed into the electricity supply of nearby towns.

A EUROPEAN AWARD FOR PAPREC AGRO

Our Paprec Agro site in Saint-Paul-la-Roche, Dordogne, produces compost which is sold to local farmers. Alongside this, our engineers have developed an eco-farm for conducting experiments using the principles of agroforestry. 500 trees have been planted on a 4-acre plot. Plant cover and compost were added to recreate the earth's natural cycle, and no chemical inputs or water were added. The project won the European Commission's Sustainable Development Award.



DEVELOPMENT OF METHANISATION

In the Capik methanisation plant, in Fresnoy-Folny in the Seine-Maritime département, we combine material recycling with energy recovery. Organic recycling transforms some of the biowaste into fertiliser approved by the National Agency for Food, Environmental and Occupational Health and Safety. So it can be used as fertiliser by farmers. The remainder is transformed into biogas, which generates electricity and heat.

Four guiding principles and a secularism and diversity charter



FIGHTING DISCRIMINATION

Equal opportunities for all, respect towards everyone regardless of their opinions, culture, education, age, etc. This is the group's DNA. Respect for the individual is at the heart of the group's managerial system, and diversity underpins Paprec's social performance.



ENCOURAGING TALENT

Enabling everyone to fulfil their potential in their job, based on their ability, not on their qualifications. This is the group's aim. When recruiting, we look for personalities more than educational qualifications, and we then monitor their skills and careers on a regular basis.



FOCUSING ON TEAM SPIRIT

For the Paprec Group, team spirit and solidarity are vital to the company's success. This culture encourages participation in joint projects and facilitates collective decision-making.



AIMING FOR EXCELLENCE

All the group's employees share the same credo: to put their experience and expertise to use in group projects and serve customers' needs.

A CHARTER FOR DIVERSITY AND SECULARISM

In 2014, following a consultation with employees and a unanimous vote, the Paprec group added a charter for diversity and secularism to its company regulations. Based on a culture of mutual respect and understanding, the charter enshrines religious neutrality in the company and the rejection of discrimination.

FOR A GREENER PLANET AND A FRIENDLIER SOCIETY





IN FRANCE, TODAY'S WASTE CREATES TOMORROW'S JOBS.

Recycling and recovery of waste into raw materials represent ideal solutions to the environmental challenges of the 21st century. And France is one of the world's most successful countries in the field. This sector requires considerable investment in high-tech industrial equipment.

With 10,000 employees in 220 sites around France, the Paprec group has been at the heart of the circular economy for 25 years. As France's leader in recycling, it plays an important role in the country's progress in this field. Paprec has expertise in all areas of the sector, from waste collection to recovery.

The company has created 2,000 skilled jobs over the past three years.



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*Jean-Luc Petithuguenin,
CEO and Founder of the Paprec Group, was named
Industrialist of the Year 2020 on 4 November.*



For a greener planet and a friendlier society



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