



INTEGRATED
HOUSEHOLD WASTE
TREATMENT CENTRE

S O R T I N G - T R E A T I N G - R E C O V E R I N G



EDITORIAL



Claude Saint-Joly
Chairman of EveRé

Consistent with the concept of circular economy which continues to develop, it has become clear now that we need to consider our waste as a resource.

With EveRé, a subsidiary of the Urbaser group, the Aix-Marseille Provence Metropole benefits from France's first integrated household waste treatment centre.

Indeed, this centre is an excellent example of global household waste management. In addition to selective collection that promotes recycling, this facility is capable of sorting then recovering residual household waste : the combustible fraction is converted to energy, while the organic fraction is used, on the one hand to produce 100% green biogas and electricity (methanisation) and, on the other hand, to produce compost used in agriculture.

This synergy of multiple modes of waste treatment on a single site enables us to achieve, each day, an overall waste recovery rate of more than 90%, a true performance at the national level.

We are thus able to fulfil the public service mission entrusted to us until 2030 by the Aix-Marseille Provence Metropole. In concrete terms, we manage the waste of 18 towns within this territory, i.e. more than one million inhabitants.

Subject to very stringent regulatory requirements, we have decided to go even further, thus guaranteeing the health security of populations and the preservation of the environment surrounding the site.

As evidence of this, we make our environmental results available to all via our website.

The EveRé centre perfectly illustrates our know-how and technical culture, which drive us to invest in innovative technologies and in tomorrow's processes in our effort to constantly improve waste recovery.

EVERÉ, FROM WASTE TREATMENT TO THE CREATION OF NEW RAW MATERIALS, COMPOST AND ENERGY

A FIRST IN FRANCE

EveRé, a subsidiary of the URBASER group, is the first integrated household waste treatment centre built and operated in France.

A TRUE PUBLIC SERVICE MISSION TO SERVE THE POPULATION

Each day, EveRé recovers the waste of more than 1 million inhabitants of the Aix-Marseille Provence Metropole, in compliance with environmental regulations.

AN INNOVATIVE MIX OF RECOVERY TECHNIQUES


Thanks to the combination of three processes | mechanical sorting, methanisation/composting and thermal treatment | EveRé ensures maximum waste recovery (more than 90%).

AN ENVIRONMENTALLY FRIENDLY SITE

The Integrated Treatment Centre has set itself ambitious goals in terms of environmental conservation : eco-responsible transport, preservation of natural water resources, monitoring of the environment around the site, natural air treatment process, *etc.*

A GROWING TERRITORIAL DYNAMIC

Responsible and environmentally friendly waste treatment is a major challenge for the territory, whose development potential grows every day. Indeed, the Fos-sur-Mer area possesses a burgeoning industrial ecosystem, hosting in particular a number of projects focusing on sustainable development and on circular economy.





THE URBASER GROUP

A subsidiary of the China Tianying Inc. (CNTY) Group, the Spanish Urbaser Group, with its 30,000 employees and 160 subsidiaries worldwide, is known internationally for its waste management and urban cleanliness expertise.

Its French subsidiary, Urbaser Environnement, specialises in the construction and operation of integrated sorting and treatment facilities for both household waste and other forms of urban waste, by energy recovery, methanisation, composting and recycling, in the collection of these waste and in the cleaning of urban public spaces.

KEY FIGURES

Site
commissioned in

2010

A total
investment of

€430M

150

direct jobs

18

towns served
within the Aix-Marseille Provence
Metropole *

More than

400,000

tonnes of waste
treated and recovered per year

The centre operates

24/7

EveRé has forged links with approximately

300 PARTNERS

of which ¾ are local companies

EVERÉ THUS STANDS OUT AS AN **INNOVATIVE AND RESPONSIBLE INDUSTRIALIST, EXEMPLARY IN THE OPERATIONAL PERFORMANCE OF ITS PROCESSES, RESPECTFUL OF THE ENVIRONMENT AND COMMITTED ALONGSIDE LOCAL COMPANIES.**

* Allauch, Carnoux-en-Provence, Carry-le-Rouet, Cassis, Ceyreste, Châteauneuf-les-Martigues, Ensues-la-Redonne, Gémenos, Gignac-la-Nerthe, La Ciotat, Le Rove, Maignane, Marseille, Plan-de-Cuques, Roquefort-la-Bédoule, Saint-Victoret, Sausset-les-Pins, Septèmes-les-Vallons.

EVERÉ, FRANCE'S FIRST INTEGRATED HOUSEHOLD WASTE TREATMENT CENTRE



THIS LATEST GENERATION CENTRE COMBINES, AT A SINGLE SITE,
THREE COMPLEMENTARY TREATMENT UNITS :



1. AN AUTOMATED SORTING CENTRE

TO SEPARATE HOUSEHOLD WASTE INTO DIFFERENT FAMILIES TO THUS ENSURE BETTER RECOVERY.

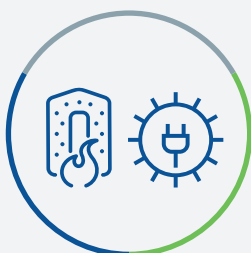
This fully automated unit can separate the incoming household waste into organic matter, combustible matter and residual recyclables. The organic matter (food residues, garden waste, etc.) and the combustible matter (plastic films, etc.) are sent to the EveRé Centre's dedicated units. Recyclable materials (ferrous metals, aluminium and plastic bottles) are sent to the appropriate recycling processes.



2. A METHANISATION AND COMPOSTING UNIT

TO CONVERT ORGANIC WASTE TO GREEN ELECTRICITY AND COMPOST.

Organic matter is recovered by methanisation, a technology based on the degradation of organic matter by micro-organisms in the absence of oxygen. This process produces a combustible gas with a high methane content : biogas. This latter is recovered as green electricity (transferred to the *Électricité de France* power grid) and in the form of heat (reused internally in the EveRé process). Upon leaving the methanisation process, the organic matter is then sent to the composting process. The resulting compost is then reused as a fertiliser by the farms neighbouring the site.



3. AN ENERGY RECOVERY UNIT

TO CONVERT COMBUSTIBLE WASTE TO ENERGY.

Energy recovery by thermal treatment consists in converting the heat generated by waste combustion to energy, i.e. electricity, which is then transferred to the *Électricité de France* power grid. Moreover, combustion reduces waste volume by approximately 80%. The 20% remaining at the end of combustion, called bottom ash, is then used as aggregate for road and platform construction.





KEY FIGURES

More than
90%
of household
waste recovered

Less than
10%
of waste sent
ultimately to landfill

10,000 tonnes
of recyclables per year
sent to recycling

2 trains
per day

135 containers
per day

1,100 tonnes
of waste received per day

7 million
m³ of biogas
produced per year

210 GWh
of electricity produced
per year

20,000 tonnes
of compost produced per year

The equivalent of a city of more than

75,000 inhabitants
supplied with electricity year round
thanks to EveRé's activity





EVERÉ, RESPECT FOR SAFETY AND ENVIRONMENTAL ISSUES

EVERÉ IS SUBJECT TO VERY STRINGENT REGULATORY REQUIREMENTS IN TERMS OF SAFETY AND ENVIRONMENTAL PROTECTION. WE OBSERVE THESE OBLIGATIONS SCRUPULOUSLY AND HAVE DECIDED TO GO EVEN FURTHER. AS SUCH, WE CAN GUARANTEE TOTAL HEALTH SECURITY FOR POPULATIONS AND RESPECT FOR ENVIRONMENTAL ISSUES AROUND THE SITE.



A SECURE AND CONTROLLED FACILITY

- A self-surveillance system provides 24/7 monitoring of facility operation.
- The entire site is regularly inspected by Government services.
- Controls, both scheduled and unannounced, are conducted several times per year by independent laboratories. Their results are published on www.evere.fr.
- An information and consultation Commission, involving all stakeholders (local authorities, environmental associations, Government services, etc.), convenes regularly to review the site's activity.

CLOSE SURVEILLANCE OF THE ENVIRONMENT AROUND THE SITE

- A complete diagnosis of the environment surrounding the site (soil, plants, water table, etc.) was conducted prior to commissioning in order to draw up a "zero state" reference. Since then, samples are collected from the same locations each year to ensure that EveRé has no impact on its environment (environmental surveillance reports available at www.evere.fr).
- The construction of the EveRé site was the subject of a "High Environmental Quality Approach and tertiary buildings" pilot project. Moreover, since its commissioning, EveRé has developed its own Environmental and Energy Management System and, as such, is now ISO 14001 and ISO 50001 certified.
- 90% of waste treated by EveRé arrive by train; an eco-responsible mode of transport that avoids the use of 20,000 trucks per year on the territory's roads.

PRESERVATION OF AIR AND WATER QUALITY

EVERÉ HAS MET THE EXPECTATIONS OF THE AIX-MARSEILLE PROVENCE METROPOLE AND OF THE LOCAL AUTHORITIES THAT DEMANDED A PERFORMANCE GREATER THAN APPLICABLE FLUE GAS QUALITY REGULATIONS.

- In the thermal treatment Unit, an integral flue gas treatment system has been implemented, coupled with a new-generation catalytic equipment.
- In the methanisation Unit, the biogas produced, methane-rich, is channelled and converted to green energy, thus serving to fight greenhouse gas emissions.
- In each waste treatment Unit, the air is suctioned and treated through a natural filter. This “biofilter” eliminates smells and purifies the air before it is returned to the atmosphere.
- All of the site’s liquid effluents (rainwater, industrial waste water, etc.) are collected, treated, controlled, then reused internally for the various processes. No water is released outside the centre.

KEY FIGURES

Nearly **45,000** tonnes
of greenhouse gas avoided
each year, thanks to Everé’s activity

90% of all waste
is transported by train **>>>** **20,000** fewer trucks
on the roads



EVERÉ, AN AMBITIOUS COMPANY, FIRMLY ANCHORED IN ITS TERRITORY

EVERÉ IS ONE OF THE MOST RECENT FACILITIES IN THE FOS-SUR-MER INDUSTRIAL AREA AND, MORE BROADLY, ONE OF THE LATEST WASTE TREATMENT SITES TO BE BUILT IN FRANCE.

PIICTO

In September 2014, the industrialists of the Fos-sur-Mer industrial area, including Everé, joined forces, in collaboration with the Port of Marseille-Fos and with the support of local authorities, to create PIICTO (Plateforme Industrielle et d'Innovation du Caban-Tonkin – Caban-Tonkin industrial and innovation platform). Its goal : to reveal the potential of this 1,200-hectare area as an innovator, to optimise its attractiveness and to consolidate inter-company synergies.

Everé, a founding member of PIICTO, fits perfectly into this consortium of companies committed to a durable industrial ecology dynamic.

CONTINUOUS IMPROVEMENT

Since its start-up in 2010, Everé has conducted a continuous improvement policy that is at the very core of its everyday operation.

For this, dedicated management systems have been implemented on-site according to several ISO standards and have continued to be developed since then : environment management system (**ISO 14001** certified since 2012), energy management system (**ISO 50001** certified since 2018) and occupational health and safety management system (**ISO 45001** certified since 2019).

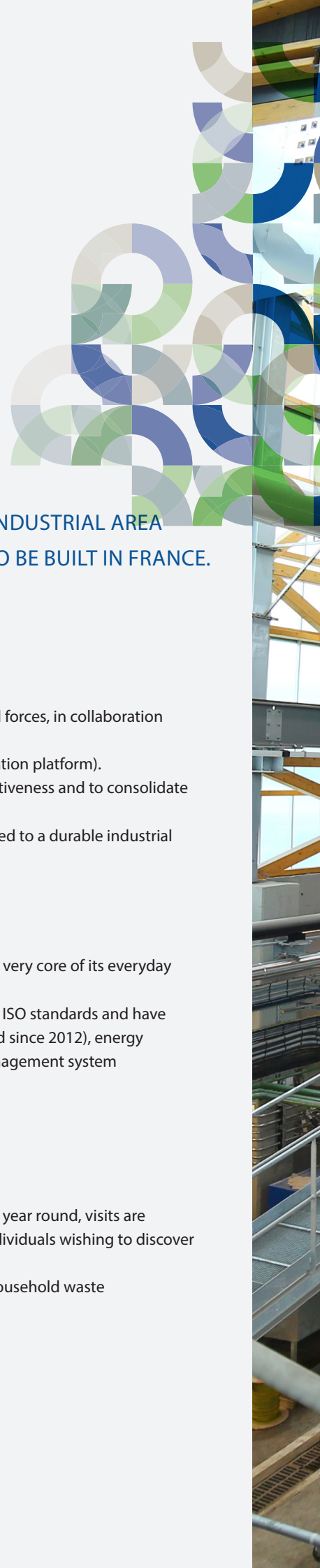
EDUCATIONAL MISSION

Everé intends to make its treatment centre transparent and open to the public.

A dedicated website thus allows to follow the quality of flue gas released by the facility and, all year round, visits are organised for all publics, including local authorities, schools, environmental associations, or individuals wishing to discover the fate of their waste.

Through these actions, Everé is proud to relay to these populations the importance of good household waste management.

For further information : contact@evere.fr





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