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An interview with the President

Éric Cesari, President of Syctom

What are Syctom's challenges with regard to the climate emergency?

Everyone now knows that the fight against global warming is vital for the future of our planet. To combat this phenomenon, it is absolutely necessary to reduce what is called our carbon footprint. The first line of resolute action undertaken by Syctom is to have an ambitious sorting policy intended to promote a "sober" circular economy that fosters recycling and reuse.

We still need the support of the public authorities to ensure the development of projects and the deployment of sites across the Metropolis. The State must recognise waste treatment syndicates as major players in the ecological and energy transition and the circular economy, and not as polluters subject to the TGAP (general tax on polluting activities), which unfairly increases our costs. In addition, to reduce the tonnages of waste landfilled and optimise recycling, the State must further support the secondary materials market through an equalisation mechanism aimed at compensating the difference between the price of secondary materials and the price of primary raw materials.

What are Syctom's strengths in dealing with the scarcity of natural resources?

In its category, Syctom is a major public player at the national level and the largest in Europe. Our core business, the treatment of household waste, must no longer be viewed only as a means of making the residues of household consumption "disappear": it must be seen as a source of opportunities to produce virtuous energy!



Heat production through incineration in our three energy recovery units will be supplemented in 2024 by gas production via the biodigestion unit that we are going to build in the Gennevilliers port (\in 53 million investment).

Finally, I would like to remind you that for more than 30 years, Syctom has been producing new raw materials by recycling what we sort. Here again, recycling is a virtuous action that avoids "looting" natural resources.

What we need to do is act more effectively at the "source" by supporting prevention and educating consumers to adopt good practices.

An ongoing health crisis, volatile prices of recycled raw materials and energy, rising TGAP... In this challenging context, how did Syctom continue to perform its public service mission in 2021?

Even though, as an exemplary player, Syctom has undertaken a programme to modernise its facilities to promote the circular economy (more than one billion euros by 2028), it must bear over the same period an additional cost of €205 million due to the increase in TGAP decided, unilaterally, by the State. The priority was therefore to boost savings and stimulate the sales of secondary raw materials. Our relocation to the 13th arrondissement of Paris, for example, generates savings of one million euros per year.

The contracts with the operators of our sites were also revised at the time of their renewal to better adjust operating costs. Thanks to all of these measures, we were able to limit as much as possible the increase in fees, and thereby avoid an additional levy for the taxpayer.

With regard to our selective collection sorting centres, increasingly efficient technological processes are being implemented to capture secondary materials such as paper, cardboard and plastic as optimally as possible. This is the case on our Nanterre site which reopened in 2021 with an investment of €45 million. While the sale of these materials brings us revenue, they are far from covering all the costs.

Is the territorial collective momentum that Syctom is driving bearing fruits already?

As soon as I was elected, I wanted to strengthen Syctom's activity by devising a cooperation approach on several levels: member territories through the development of performance contracts; the Mayors whom I meet regularly to explain our policy; elected delegates with whom we share the major thrusts of our syndicate during seminars; or even the other treatment syndicates with which we are building significant regional cooperation.

It is on the basis of field observation and dialogue with all the stakeholders involved in waste treatment that we can build effective policies to serve the people.

How did Syctom prepare for the generalisation of the source sorting of bio-waste which will become mandatory on 1 January 2024?

Since 2017, Syctom has supported experiments in the collection and treatment of food waste with voluntary member local authorities. From the start of my term of office, at the end of 2020, I took my pilgrim's staff to alert the Mayors to the urgent need to set up specific logistics for the collection of food waste - from the supply of bins to the collection round of dump trucks - to collectively prepare for this deadline. As far as treatment is concerned, Syctom anticipated this obligation six years ago by partnering with Sigeif¹ in a biodigestion project in Gennevilliers. We will also have to strengthen our partnership with neighbouring syndicates to pool the needs and thus create a balanced regional network.

We are pursuing a policy of virtuous energy production that the Government should consider with greater earnestness and support even more!

How do you envision the year 2022?

This will be the year in which we will choose our partners for the design, construction and management of the digestion unit in Gennevilliers capable of processing 50,000 tonnes of food waste per year.

Of course, we will continue to modernise our facilities to reinforce Syctom's position as a role model in terms of environmental performance.

To be more effective in the discharge of our responsibilities and in our partnerships with our member local authorities, we aim to sign a regional performance contract with each EPT.

I also hope that, in 2022, we are able to re-establish a constructive dialogue with the State to discuss the TGAP and other matters related to supporting our efforts in terms of the circular economy. This is because we are pursuing a policy of virtuous energy production that the Government should consider with greater earnestness and support even more!

Finally, we must collectively engage in reflections on other forms of energy production than heat electricity, biogas, hydrogen, etc. - to determine what can be Syctom's new strategy. To this end, I would like us to take further steps to promote the recognition of the waste sector as a major topic within the framework of the ecological and energy transition. Thus, I will propose to the Committee of representatives that we undertake more resolute actions and a stronger advocacy approach. Especially within the framework of international bodies such as UNESCO.

A word from the General Director

Denis Penouel,

General Director of Syctom



I have been serving as the head of Syctom since October 2021. I had earlier also held the position of Director General of Technical Services from 1990 to 2007.

Syctom has been able to grow, evolve and move forward thanks to the know-how of its teams and under the leadership of Martial Lorenzo, whom I succeeded after his retirement in 2021. It has acquired both the tools needed to treat waste with an increasingly heterogeneous and complex composition, and an innovative approach to take up the challenge of reducing the waste produced.

Faced with the climate emergency, the syndicate has made saving resources its top priority in its territory. Today, we need to adopt an even more comprehensive approach, in line with the global priorities defined by the UN Sustainable Development Goals (SDGs).

Though climate change issues are not recent, it is crucial to shift gear to accelerate the ecological transition. This implies working at three levels: the challenge of partnership to stimulate a regional dynamic, in line with the principles of the Grand Défi; the challenge of education so that citizens are actors in the transformation; and the challenge of universality, by deploying appropriate treatment tools adapted to the means and to **regional** specificities.

This collective dynamic around a shared vision for a sustainable waste management marked the year 2021. This is evidenced by our close engagement with the **regions**, with a stronger support system for the local authorities, the first performance contracts concluded with them, and the opening of an "Espace Infos Déchets" [Waste Info Booth]. It also resulted in the continued modernisation of its industrial facilities, in lvry/Paris XIII, Saint-Ouen-sur-Seine, Nanterre and Romainville/Bobigny. Our digestion projects, with Sigeif and SIAAP, are also taking shape and we are continuing to experiment with innovative solutions to speed up the ecological transition.

All these ambitious objectives require us to be rigorous in our management. It is equally essential to have a structure in which employees are motivated and actively involved. This is why, with the support of the President, I initiated the strategic "Horizon 2050" project built jointly with the employees. It will outline our shared vision for tomorrow's solutions for a circular, low-carbon economy and a sustainable city.

Faced with the climate emergency, Syctom has made saving resources its top priority in its territory

Syctom and the Sustainable Development Goals

The United Nations (UN) has adopted 17 Sustainable Development Goals (SDGs), broken down into 169 targets for the period 2015-2030.

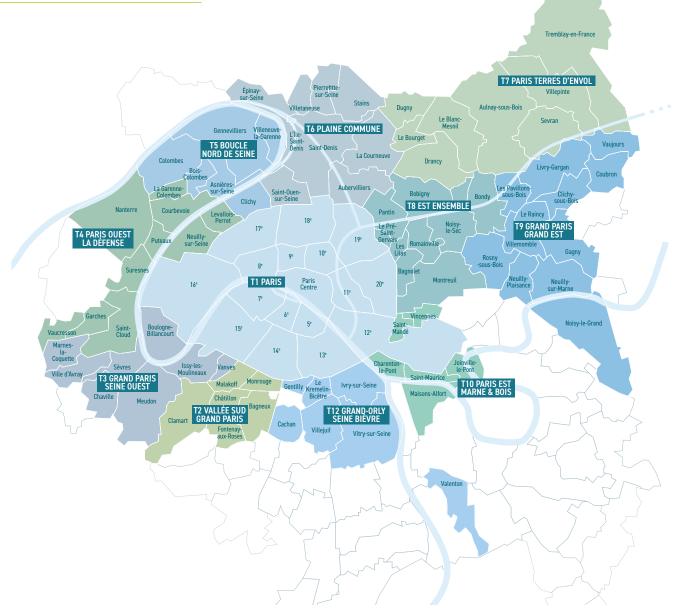
These goals and targets constitute a common roadmap for the transition to sustainable development. Committed both locally and internationally to a transition towards a more sustainable and equitable society, Syctom has decided to measure its contribution to achieving the Sustainable Development Goals (SDGs).



Throughout this document, you will find Syctom's contributions to the SDGs in various fields.

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FULL REPRESENTATIVES



Syctom, the metropolitan household waste agency, is the public operator in charge of treating and recovering waste produced by the 6 million people living in the 82 municipalities that make up its area of intervention in the Paris metropolis.

Syctom is administered by a Committee of representatives composed of 87 local elected officials representing 11 regions of the Metropolis of Greater Paris.

• The Committee of representatives defines the syndicate's policy, votes on its budget, decides on investments and the management methods used.

- It rules on membership and withdrawal requests from local authorities.
- It elects the Board members and the members of the Tender Committee.

The Board is composed of the President, the 15 Vice-Presidents and 20 other representatives, i.e. 36 members in total. A part of the powers of the Committee of representatives has been entrusted to the Board for better governance.

Since 24 September 2020, Éric Cesari has been the President of Syctom.

PRESIDENT OF SYCTOM

Éric CESARI Vice-President of the Metropolis of Greater Paris

T1 PARIS

SYCTOM'S VICE-PRESIDENTS



SYCTOM'S BOARD MEMBERS



17th arr. of Paris, of the Metropolis

SYCTOM'S DELEGATES



Councillor of Paris, Metropolitan councillor Frédéric

Councillor

of Paris

BADINA-SERPETTE



Jack-Yves BOHBOT Councillor of Paris, Regional councillor of Île-de-France

Grégory CANAL

Councillor

of Paris



Mahor CHICHE Councillor of Paris

ALTERNATES Maya AKKARI

Councillor of Paris

David ALPHAND Councillor of Paris

Véronique BALDINI Councillor of Paris

Anne BIRABEN Councillor of Paris

Gauthier CARON-THIBAULT Councillor of Paris

BOARD MEMBERS

Senator of Paris Councillor of Paris Afaf GABELOTAUD

T2
VALLÉE SUD GRAND PARIS

Rémi FFRAUD

Deputy Mayor of Paris, Metropolitan councillor

Maud GATEL Deputy of Paris, Councillor of Paris



Rachida DATI

Mayor of the

Metropolitan

councillor

Jérôme

COUMET

Mayor of the

Metropolitan

councillor

Francois

19

DAGNAUD

Mayor of the

Metropolitan

Jean-Philippe

councillor

DAVIAUD

Councillor

th arr. of Paris,

13th arr. of Paris,

7th arr. of Paris,

Former minister,



Jean LAUSSUCQ 14th Vice-President Councillor of Paris

Lamia EL AARAJE

Councillor

of Paris

Alexis

GOVCIYAN

Councillor

JAMET-FOURNIER

Councillor

of Paris

Pénélope

KOMITĖS

Deputy Mayor

of Paris

Boris



Paul SIMONDON 15th Vice-President Deputy Mayor of Paris



Raphaëlle PRİMET Councillor of Paris

Nathalie LAVILLE

Councillor

of Paris

Béatrice

LECOUTURIER

councillor of

Île-de-France

Carine PETIT

Mayor of the

Metropolitan

councillor

14th arr. of Paris,

of Paris, Regional

Councillor



Audrey PULVAR Deputy Mayor of Paris, Regional councillor of Île-de-France



Florian SITBON Councillor of Paris



Delphine TERLIZZI Councillor of Paris





François VAUGLIN Mayor of the 11^t arr. of Paris Metropolitan councillor

Councillor of Paris

Thomas CHEVANDIER Jérôme GLEIZES Councillor of Paris Councillor of Paris

GILLET

Rudolph GRANIER Councillor of Paris

Antoine GUILLOU Deputy Mayor of Paris Céline HERVIEU

> Councillor of Paris Fatoumata KONE Councillor of Paris, Metropolitan

councillor

Benoît BLOT

Deputy Mayor of

Plessis-Robinson,

Vice-President



Eric LEJOINDRE Mayor of the 18th arr. of Paris, Metropolitan councillor

Véronique LEVIEUX Deputy Mayor of Paris

Valérie MONTANDON Councillor of Paris, Regional councillor of Île-de-France, Metropolitan councillor

SYCTOM'S DELEGATES

Deputy Mayor of Montrouge

Gwénola RABIER

Francoise

MONTSENY

of Châtillon

Deputy Mayor

Camille NAGET

Councillor of Paris

councillor

Pierre RABADAN Deputy Mayor councillor

RAYMOND-ROSSI Councillor of Paris Hamidou SAMAKE

Councillor of Paris, Metropolitan councillor

Hermano SANCHES RUIVO

Marie TOUBIANA

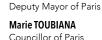


councillor Aurélien VERON

Councillor of Paris, Metropolitan councillor

Karim ZIADY Councillor of Paris

Councillor of Paris



Gabriela REIGADA





ALTERNATES Serge KEHYAYAN Deputy Mayor of Clamart



Pascale MEKER Deputy Mayor of Bagneux

of Т2











of Paris, Metropolitan councillor Johanne KOUASSI Councillor

of Paris, Metropolitan councillor

LAHOUASSA Councillor of Paris

Sylvain RAIFAUD Councillor of Paris, Metropolitan councillor



Jérémy REDLER Councillor of Paris, Regional councillor

of Île-de-France

Marie-José

Jean-Baptiste OLIVIER

Eric PLIEZ Mayor of the 20th arr. of Paris, Metropolitan

of Paris, Metropolitan

Patrice RONCARI

Deputy Mayor of Clamart



Councillor of Paris

T3 • GRAND PARIS SEINE OUEST

SYCTOM'S VICE-PRESIDENTS



André SANTINI 4th Vice-President Former minister, Mayor of Issy-les-Moulineaux, Vice-President of the Greater Paris Metropolis

SYCTOM'S DELEGATES



Pierre-Christophe BAGUET Mayor of Boulogne-Billancourt, President of T3, Vice-President of the Departmental council 92, Metropolitan councillor



Christiane **BARODY-WEISS** 6th Vice-President Mayor of Marnes-la-Coquette, Vice-President of T3, Metropolitan councillor

Pierre CHEVALIER

Acting

municipal

councillor of

Ville-d'Avray



councillor of

Île-de-France

Sophie

7

DESCHIENS

Deputy Mayor

of Levallois-Perret.

Regional councillor of Île-de-France /

special delegate

Florence **DE PAMPELONNE** Deputy Mayor of Meudon, Regional

SYCTOM'S BOARD MEMBER



Hervé MARSEILLE Senator of Hauts-de-Seine, Municipal councillor of Meudon

Édith LETOURNEL Deputy Mayor of Issy-les-Moulineaux

Alain MATHIOUDAKIS Bernard ROCHE Deputy Mayor of Bouloane-Billancourt

Acting Municipal councillor of Vanves

T4 • PARIS OUEST LA DÉFENSE

PRESIDENT OF SYCTOM



SYCTOM'S DELEGATES



Éric BERDOATI Mayor of Saint Cloud, Vice-President of T4, Vice-President of the Departmental council 92

Éric CESARI

Vice-President of the Metropolis

of Greater Paris



SYCTOM'S BOARD MEMBERS

Perrine

COULTER

Municipal

councillor

of Nanterre

Jean-Philippe DUMONT Municipal councillor of Neuilly-sur-Seine

Vincent FRANCHI Deputy Mayor of Puteaux, Metropolitan councillor. Departmental Councillor 92

Pascal PELAIN

ALTERNATES

Jeanne BECART Mayor of Garches, Vice-President of T4, Departmental councillor of Hauts-de-Seine

Isabelle COVILLE Deputy Mayor of Levallois-Perret

Claire CHARMETTE Municipal councillor of La Garenne-Colombes **Capucine DU SARTEL** Deputy Mayor of Saint-Cloud

Amirouche LAIDI Deputy Mayor of Suresnes

José PINTO MARTINS Municipal councillor of Nanterre

T5 • BOUCLE NORD DE SEINE



ALTERNATES

Samia GASMI Deputy Mayor

of Colombes

Zineb ZOUAOUI 10th Vice-President Deputy Mayor Gennevilliers of



Bachir HADDOUCHE Deputy Mayor



of Villeneuve-la-Garenne

Éric ISABEY Deputy Mayor

of Bois-Colombes

Mayor of Villeneuve-la-Garenne, Vice-President of T5, Acting metropolitan councillor, Regional councillor of Île-de-France

> Anne-Christine JAUFFRET Deputy Mayor of Bois-Colombes



Patrice PINARD Deputy Mayor of Clichyla-Garenne

Frédéric SITBON Deputy Mayor of Asnières-sur-Seine

T6 • PLAINE COMMUNE

SYCTOM'S VICE-PRESIDENTS

Karim BOUAMRANE



7th Vice-President Mayor of Saint-Ouen-sur-Seine, Metropolitan councillor, Vice-President of the Departmental council 93



Corentin DUPREY 9th Vice-President Municipal councillor of Saint-Denis, Vice-President of T6, Vice-President of the

Departmental council 93



Mayor of Saint-Denis. President of T6

Dieunor EXCELLENT Mayor of Villetaneuse Metropolitan councillor



Municipal councillor of Saint-Denis. Regional councillor of Île-de-France

> Florence LAROCHE Deputy Mayor of Villetaneuse Vice-President of T6

Abdelfattah MESSOUSSI Deputy Mayor of Stains



Christian PERNOT Deputy Mayor of Pierrefitte-sur-Seine

Laurent MONNET

Deputy Mayor of Saint-Denis

T7 PARIS TERRES D'ENVOL

SYCTOM'S VICE-PRESIDENT

Deputy Mayor of Villepinte,

Regional councillor of Île-de-France

Fouad EL KOURADI



ALTERNATES Farida ADLANI

8th Vice-President Deputy mayor of Aulnay-sous-Bois



Michel CLAVEL Deputy Mayor of Dugny

SYCTOM'S BOARD MEMBERS



Odette MENDES Deputy Mayor of Drancy

Cyrille DUPUIS Municipal councillor of Bourget

SYCTOM'S DELEGATE



Municipal councillor of Tremblay-en-France

Thierry MEIGNEN Metropolitan councillor, Senator

ALTERNATES

Najat MABCHOUR

Deputy Mayor

of Sevran



Michel FOURCADE Mayor of Pierrefittesur-Seine. Vice-President of the Metropolis of Greater Paris

Stephen LECOURT Deputy Mayor of Ile-Saint-Denis



T8 • EST ENSEMBLE

SYCTOM'S VICE-PRESIDENTS



SYCTOM'S DELEGATES

Philippe LAMARCHE Deputy Mayor of Montreuil

Nadège

ABOMANGOLI

Municipal

councillor of Pantin



LASCOUX Municipal Councillor of Noisy-le-Sec, Vice-President of T8

Rafik ALOUT

Municipal

councillor

of Bondy









ALTERNATES

Françoise CELATI Acting Municipal councillor of Noisy-le-Sec

Luc DI GALLO Deputy Mayor of Montreuil

Amin MBARKI Municipal councillor

of Montreuil

Brigitte MORANNE Municipal councillor of Romainville

T9 GRAND PARIS GRAND EST

Jean-Paul FAUCONNET

SYCTOM'S VICE-PRESIDENT



12th Vice-President Mayor of Rosny-sous-Bois, Vice-President of T9. Metropolitan councillor

ALTERNATES Pascal BUTIN Deputy Mayor of Neuilly-Plaisance

Henri CARRATALA Deputy Mayor of Livry-Gargan



Mayor of Coubron, Vice-President of T9, Metropolitan councillor, Regional councillor of Île-de-France

> **Christine GAUTHIER** Deputy Mayor of Pavillons-sous-Bois

SYCTOM'S DELEGATES



Valérie SILBERMANN

Deputy Mayor of Gagny



Jean-Michel GENESTIER Mayor of Raincy, Vice-President of T9, Acting Metropolitan councillor

T10 ♦ PARIS EST MARNE & BOIS ←

SYCTOM'S VICE-PRESIDENT



Florence **CROCHETON-BOYER** 5th Vice-President First Deputy Mayor of Saint-Mandé



Jean-Luc CADEDDU 13th Vice-President Deputy Mayor of Maisons-Alfort

SYCTOM'S BOARD MEMBER

Charlotte LIBERT-ALBANEL Mayor of Vincennes Vice-President of T10, Regional councillor of Île-de-France

Pascal TURANO First deputy Mayor of Charenton-le-Pont, Vice-President of T10

SYCTOM'S DELEGATES



Virginie TOLLARD Deputy Mayor of Joinville-le-Pont, Vice-President of T10



Christian CAMBON Senator, Municipal councillor of Saint-Maurice, Metropolitan councillor

Michel DESTOUCHES Deputy Mayor of Joinville-le-Pont

Laurent LAFON Senator, Municipal councillor of Vincennes, Metropolitan councillor

Marc MEDINA

Deputy Mayor of Saint-Mandé

Pierre MIROUDOT Municipal councillor of Charenton-le-Pont

Frédéric TURPIN Municipal councillor of Maisons-Alfort

T12 • GRAND-ORLY SEINE BIÈVRE

SYCTOM'S VICE-PRESIDENT



Philippe BOUŻŚSOU 2nd Vice-President Mayor of lvry-sur-Seine, Metropolitan councillor



Sabrina SEBAIHI 3rd Vice-President Deputy of Hauts-de-Seine, Deputy Mayor of lvry-sur-Seine

ALTERNATES Samuel BESNARD Guillaume BULCOURT Deputy Mayor Deputy Mayor of Villejuif of Cachan



Geneviève ETIENNE

Deputy Mayor of Kremlin-Bicêtre

Khaled

BEN-MOHAMED

SYCTOM'S DELEGATES

Sidi CHIAKH councillor of Kremlin-Bicêtre



Élisabeth GAUTIER

of Valenton

Municipal councillor

Nadine HERRATI Deputy Mayor of Gentilly





Deputy Mayor of Villejuif

Mostefa SOFI



Clément PECQUEUX

Albertino RAMAEL Deputy Mayor of Vitry-sur-Seine

Elisabeth HUSSON-LESPINASSE Deputy Mayor Municipal councillor of lvry-sur-Seine of Gentilly

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Highlights

▼ MARCH • RECONSTRUCTION OF THE IVRY/PARIS XIII CENTRE

Bag filters arriving, via the Seine from Rouen, for the new unit for energy recovery from household waste.





▲ JUNE • ZERO WASTE DESIGN COMPETITION AWARDS CEREMONY

Syctom award at the 9th edition of the DZD competition on the theme of packaging-free shopping, with the "Shop une vis" project, with Florentin Letissier, Vice-president of Syctom (on the left) and Mathieu Lehanneur, designer and competition sponsor (on the right).



▲ TRAINING SEMINAR FOR ELECTED OFFICIALS First training seminar for Syctom's elected officials, dedicated to bio-waste.

► NOVEMBER • REOPENING OF THE SORTING CENTRE IN NANTERRE

Inauguration of the modernised centre, with Eric <mark>Césari</mark>, President of Syctom and Patrick Jarry, Mayor of Nanterre.







▲ NOVEMBER • PARTNERSHIP WITH THE STADE FRANÇAIS PARIS

Partnership signed with the Stade Académie, the rugby club's training structure, to get involved in the world of sports and raise awareness among young children.

◄ DECEMBER • OPENING OF THE ESPACE INFOS DÉCHETS

Inauguration of the Espace Infos Déchets [Waste Info Booth], a unique place in Greater Paris dedicated to waste awareness and prevention with Florentin Letissier, Vice-president of Syctom, Danièle Seignot, Deputy mayor of the 13th arrondissement, Éric Cesari, President of Syctom, Sabrina Sebaihi, Vice-president of Syctom and Olivier Blond, Regional councillor of Île-de-France.

Identity card

AS AT 1st JANUARY 2022

PRESENTATION

Syctom, the metropolitan agency for household waste, is a public player committed to ecological transition and the public operator in charge of treating and recovering waste produced in its area of intervention. Thus, it receives waste streams collected by the member local authorities and treats them.

To this end, it operates 10 treatment units and a network of waste reception centres.

CREATED IN 1984

NO. 1 EUROPEAN PUBLIC PLAYER

Syctom offers its member local authorities:

 → An essential service, the treatment of household and similar waste as close as possible to its place of production.
 → Initiatives and means to reduce the quantities of household waste produced.

 \rightarrow Support for the treatment of streams excluding household waste or selective collections.

 \rightarrow A permanent forward-looking reflection and associated research projects on the future of waste, including all possible forms of recovery within the framework of a more circular economy.

SYCTOM'S TERRITORY



82 municipalities

million inhabitants, i.e. nearly 10 % of the French population

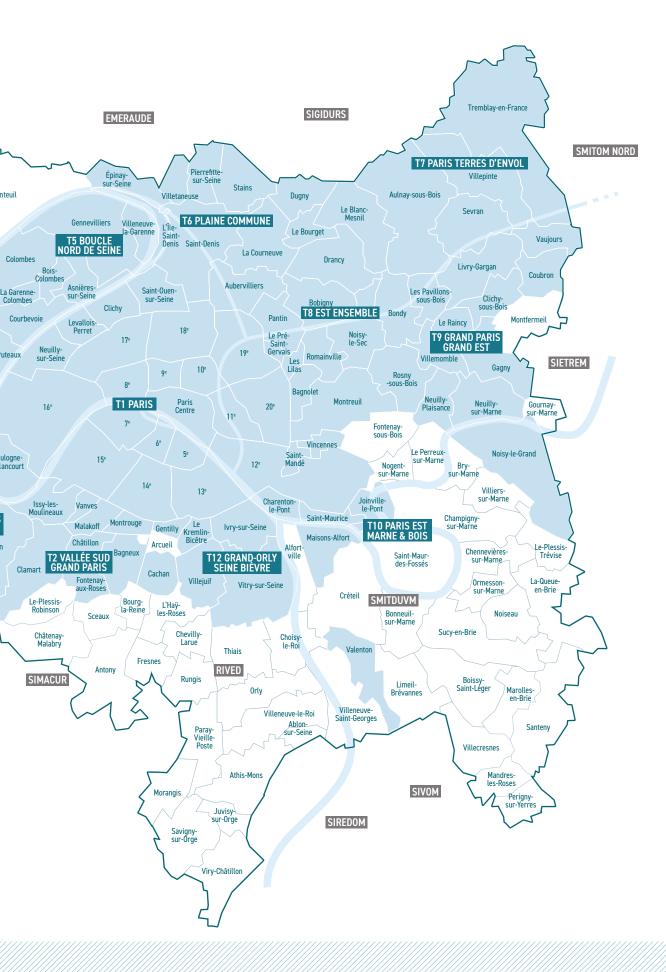


delegates, representing Syctom's member territories





Syctom's territory Metropolis of Greater Paris Other syndicates



Syctom's facilities



• Energy recovery unit Catchment area: 1.3 million inhabitants 521,650 tonnes incinerated in 2021 Authorised capacity: 520,000 tonnes Operator: Issy Urbaser Energie • Energy recovery unit Catchment area: 1.4 million inhabitants 709,713 tonnes incinerated in 2021 Authorised capacity: 730,000 tonnes Operator: IPXIII (Suez)



ETOILE VERTE, SAINT-OUEN-SUR-SEINE • Energy recovery unit Catchment area: 1.4 million inhabitants 509,661 tonnes incinerated in 2021 Authorised capacity: 650,000 tonnes Operator: Tiru (Paprec Group)



• Selective collection sorting centre Catchment area: 1.6 million inhabitants 15,007 tonnes received in 2021 *Recommissioned in November 2021, after modernisation work* Authorised capacity: 65,000 tonnes Operator: Trivalo 92 (Paprec Group)



• Selective collection sorting centre Catchment area: 650,000 inhabitants 33,626 tonnes received in 2021 Authorised capacity: 32,200 tonnes Operator: XVéo (Veolia)



• Selective collection sorting centre Catchment area: 1.2 million inhabitants 43,820 tonnes received in 2021 Authorised capacity: 45,000 tonnes Operator: Suez



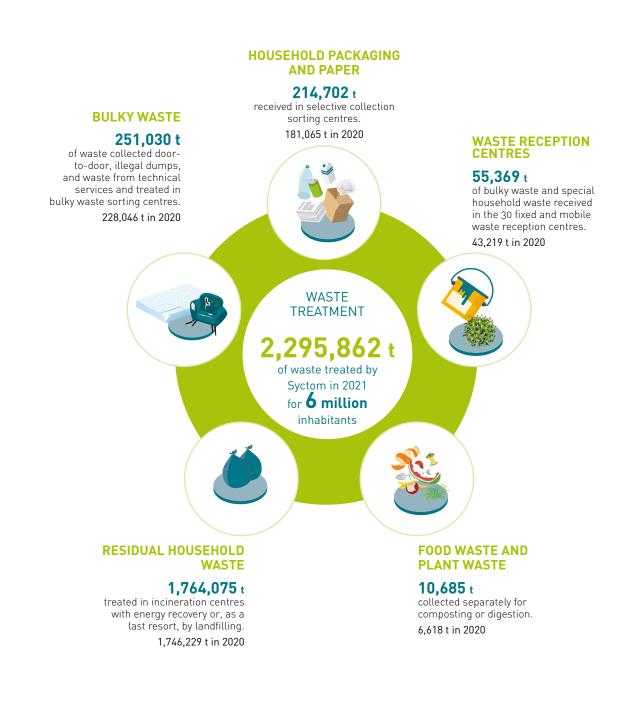
• Selective collection sorting centre Catchment area: 480,000 inhabitants 20,489 tonnes received in 2021 Authorised capacity: 20,000 tonnes Operator: Trinéo (Veolia)



• Selective collection sorting centre Catchment area: 1.3 million inhabitants 59,483 tonnes received in 2021 Authorised capacity: 55,000 tonnes Operator: Valoram (Urbaser)

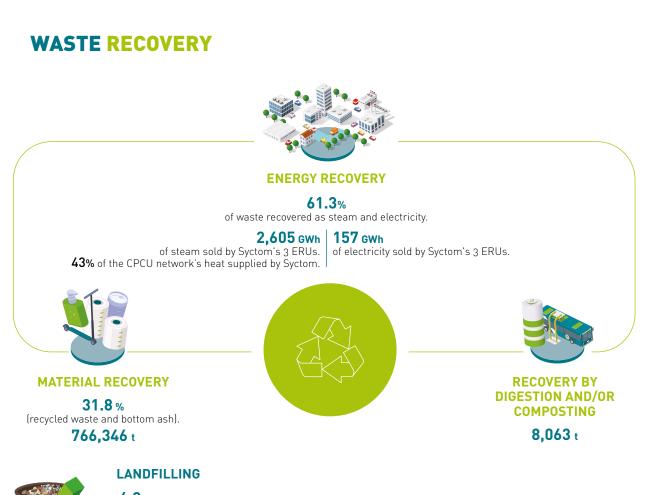
• RHW transfer centre Catchment area: 1.2 million inhabitants 391,292 tonnes received in 2021 Operator: Généris (Veolia)

Key figures





GLASS PACKAGING: 122,928 t were collected in Syctom's territory and channelled directly for recycling without going through the Syndicate's facilities. 121,521 t in 2020

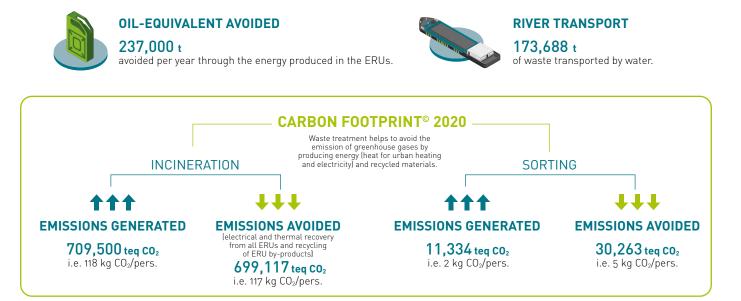




6.9% of waste landfilled

166,858 t of household waste, downgraded waste and sorting rejects directed to storage centres.

RESOURCES AND ENVIRONMENT PROTECTED



These data reflect Syctom's commitment to achieving carbon neutrality.

A word from our partners



Dominique Alba General Director of Atelier Parisien d'Urbanisme

"Apur has been supporting Syctom for 10 years, so that we can together meet the challenge of ensuring the acceptability of its facilities by the residents. This is crucial because, on the one hand, the facilities are increasingly integrated into a dense urban fabric and, on the other hand, city dwellers are showing a growing interest in waste-related issues. Manufacturers are urban stakeholders, who must adapt to the diversity of urban situations".



Colombe Brossel

"The performance contract concluded between Paris and Syctom is a shared tool for reducing waste, promoting reuse and improving recycling. It allows us to share essential information concerning the different waste streams and to work with a mutual commitment to support all the systems and actors involved in the ecological transition of the Paris metropolis. I am referring in particular to the mobilisation of ecofacilitators among the residents to improve sorting, reuse and recycling in Paris, or even raising awareness among school children".



Patrice Bessac President of Est Ensemble

"We are the first local authority to sign a performance contract with Syctom, because we are convinced that together we can be even more effective. This is in addition to the work carried out in the nine municipalities of our territory since mid-2020. With the "Zero Waste" Plan, in which we will invest €13 million over the mandate, Est Ensemble strives to renew the entire economic and industrial system from one end of the chain to the other and to bring about in-depth changes in the individual behaviour of our fellow citizens and the collective practices of our cities and all their stakeholders".



Chloé Felix Teacher at the Henri Wallon school in Gennevilliers

"In December 2021, our third-grade students visited Syctom's Espace Infos Déchets for the first time. The awareness they gained from this place really complements what we teach them in the classroom as it works with real-life scenarios. It is an interesting learning tool because it reflects the daily life of students. This helps them to adopt good practices at home because they grasp the messages faster. I believe the students have understood the issues better, in particular recycling, reuse and composting".



Nicolas Garnier *General Director of Amorce*

"Several factors explain the increase in the cost of waste management for public players such as Syctom. First of all, the very sharp increase in the TGAP since 2018, whereas the new extended producer responsibility channels are still not operational and the regional waste plans have drastically reduced the outlets, which are therefore increasingly expensive. The Covid pandemic has led to an increase in costs for the local authorities, which have had to adapt accordingly, and a decrease in revenues due to the price of secondary raw materials. Moreover, in recycling channels, the rate of takeover by eco-organisations has stagnated while the cost of sorting has increased. Finally, the Ukraine crisis is leading to a spike in energy prices. We should unequivocally demand the reduction of the TGAP and the increase in aid from eco-organisations to avoid sources of tension in the public management of waste".



Karine Léger Director of Airparif

"Airparif supports Syctom, by working beyond the regulatory oversight imposed on Syctom's units. In 2021, Airparif thus studied the influence of the Ivry/Paris XIII unit on air quality around high-rise residential towers in the 13th arrondissement of Paris. In order to carry out this study, devices for measuring particles (PM2.5 and PM10) and nitrogen oxides were placed on the towers from the ground to the top".



Thomas Lombard General Director of Stade Français Paris

"Our partnership with Syctom allows us to act concretely on the civic development of our young players. In fact, the training of our young people includes a mandatory citizenship component that Syctom helps us to activate and promote. Through awareness-raising actions, we reach these young people by showing them behind the scenes of recycling, and by teaching them good practices and their consequences. As the largest rugby club in Ile-de-France in terms of the number of members, it was essential for us to partner with an expert like Syctom to raise awareness of our promising players".



Alexandra Monteiro Waste Expert, French

Development Agency (AFD)

At AFD, we help implement France's development and international solidarity policy. Having Syctom as one of our partners means fostering the complementary nature of our approaches. Syctom positions itself as a peer with local authorities or States, speaking a common language, sharing its expertise and its field experience. That is why it is able to anticipate the organisational, technical and financial needs of the projects, visualise the milestones to be put in place and make a contribution to sustainable urban development.



Robin Reda President of Bruitparif

Consistent with the exemplary approach pursued by Syctom with regard to controlling the environmental impacts of its activities, the partnership between Syctom and Bruitparif is also proving necessary at a time when our fellow citizens are increasingly aspiring to a healthy and high-quality sound environment. Finally, from the perspective of innovation, the six "jellyfish" sensors deployed around the centres in Saint-Ouen and Ivry/ Paris XII make it possible to "see the noise" and thus make objective measurements of sound emissions, particularly in connection with the worksites in progress there.



Jean-François Vigier SIOM de la Vallée de Chevreuse

"Creating a network between our syndicates enriches our reflections and makes it possible to provide a response to the State. It is essential for waste syndicates to maintain close relations with each other in order to understand the development of our energy and ecological transition policies, taking into account the financial challenges for our local authorities. In this respect, the pooling of our equipment takes on its full meaning, for a better distribution of our treatment capacities across Ile-de-France and, when necessary, for mutual assistance".

FAST-TRACKING THE ECOLOGICAL TRANSITION

We can achieve ecological transition only when we work together. To promote the emergence of a virtuous ecosystem around waste management, Syctom advocates an approach built on sharing, exchange and accountability.

It sets up partnerships with its member local authorities to meet major national deadlines concerning waste prevention and sorting.

It also endeavours to communicate its vision of waste management to promote solutions that are most consistent with the circular economy.



A partnership-driven approach

Syctom is fuelling a partnership dynamic with its member local authorities in order to collectively meet the dual challenge of reducing waste at source and improving the quantity and quality of sorting. The aim is to develop a circular economy, to achieve the objectives set by law and the objective to which the syndicate is committed in accordance with the projection made in its contribution to the PRPGD¹: drastically reduce the quantity of household waste, and achieve the objective of "zero non-recovered waste" by 2025.

PERFORMANCE CONTRACTS Incentive to set an example

To foster a co-construction approach so as to improve the performance of waste management, Syctom has chosen to set up performance contracts with its members. Focusing on the reduction of tonnages, the optimisation of selective collections and the development of food waste collection and treatment and the prevention and awareness-raising actions to achieve this, these mutual commitments will help to bring together and pool our strengths through concrete measures aimed at achieving the legal prevention and sorting targets.

Deployed according to the specificities and expectations of each territory, this approach has a dual advantage: facilitate the programming of actions and aid, whilst monitoring the objectives of reducing waste and improving sorting.

Two first performance contracts were concluded in 2021, with Est Ensemble and the City of Paris.

SUPPORT SYSTEM 2021-2026 More resources

Syctom has renewed its support system for its members for waste reduction and recovery: financial support for the operation, studies, investment; support for raising awareness, call for projects, networking. To reduce waste, aid is channelled towards the development of reuse and repair structures, industrial and regional ecological approaches, local composting and the fight against food waste. To optimise recovery, the support focusses on the extension of sorting instructions, the improvement of selective collection, the collection and treatment of food waste, and the deployment of waste reception centres. Other funding partners may be mobilised in connection with calls for expressions of interest from the Region and ADEME. Syctom coordinates inter-territorial dynamics to pool experiences and best practices through thematic meetings, site visits, technical morning get-togethers, etc. The projects supported in 2021 include the opening of a recycling centre / DIY library by the Salvation Army Foundation in Paris, the purchase of food waste sorting tables for the canteens of Vitry-sur-Seine, the "Zero Waste Family Challenge 2020-2021" launched by Vallée Sud Grand Paris.

€5.9 MILLION in financial support for awareness-raising in 2021

BIOWASTE

A proactive programme

As the generalisation of source sorting of bio-waste is made mandatory by law from 1 January 2024, Syctom made a head start as early as 2017 to meet this deadline and gradually implement food waste management. After four years of experimenting with food waste collection and treatment with volunteer local authorities, Syctom strengthened its commitment to deploy this system throughout its territory with all categories of producers - households, food markets, catering sector, and schools.

Financial and operational support for the collection and treatment service, supply of materials for pre-collection, awareness-raising by Syctom's eco-facilitators and educational materials are some of the measures it has taken to support its members. This organisation was renewed until the end of 2023, at an attractive price for the collection and treatment of food waste.

Faced with the prospect of an increase in volumes collected, Syctom set itself new objectives: increasing the number of sites involved and setting up collection from households at least on the municipality level in each of the member territories. Specific awarenessraising actions are also planned according to the target audiences.

A plant waste reception and treatment contract was also launched in order to divert this stream from incineration and recover it by returning it to the land. Finally, in September Syctom organised its first training seminar for Syctom's elected officials. Devoted to bio-waste, this morning session of exchanges and information aimed to support them to facilitate compliance with the deadline of 1 January 2024. It was structured around three themes: treatment channels (local composting, digestion); the assessment of experiments in the collection and treatment of food waste carried out since 2017; the syndicate's support and technical assistance to deploy solutions by 2024.



Collection of food waste in Syctom's territory

8,972 tonnes of food waste collected and diverted from landfilling

A word from



Alexis Bachelay President of Syctom's Sorting efficiency committee, Territorial councillor, Boucle Nord de Seine

"The mandatory source sorting of bio-waste is a major concern for local authorities. It is essential to guide them to best prepare for the ramp-up of the collection and treatment of food waste. We are involved in educating people, providing financial support and organising calls for projects to encourage the implementation of local systems adapted to the specificities of the territories".

LOCAL CIRCULAR ECONOMY

In 2018, Syctom launched a call for projects to support local solutions for the recovery of food waste, in a local circular economy approach.

At the Ferme du Rail (Paris, 19th arrondissement), market gardening, catering and composting come together in a short supply chain, managed by the company "Travail et Vie" with around ten back-towork jobs. The food waste from around ten restaurants is collected using electric bikes. Residents drop off their food waste and collect their own compost. In Stains (93), the Alchemistes collect food waste from residents, school canteens and shops on horseback in the Clos Saint-Lazare district, and convert it into compost which they redistribute. In Vitry-sur-Seine (94), Bee&Co collects food waste from a central kitchen, around forty school canteens, restaurants and two markets using natural gas vehicles, and then treats it in a micro-digester. Waste is recovered as electricity, compost and water for the city's green spaces.

In Valenton (94), DM Compost collects food waste from ten school canteens, a market, around twenty restaurants and shops and two residences using natural gas vehicles. This solidarity enterprise of social utility treats it in a micro-composting platform with low energy consumption.



Collection of food waste on horseback, in Stains (93)

PRICE REVISION An incentive to promote sorting

In 2021, Syctom had to bear new burdens caused by the health crisis and the sharp increase in the general tax on polluting activities (TGAP). Despite its policy of controlling operating expenses, it had to resort to the pricing lever to maintain a balanced budget.

This new pricing policy, adopted by the Committee of representatives on 2 April 2021, is based on the following principles: maintaining a strong incentive to promote selective collection and food waste collection, simplifying accounting flows between Syctom and its members for better readability, as well as creating a price for selective collection anomalies. Dedicated to sorting rejects, this new line has been set up in order to further encourage people to adopt the right sorting habits for packaging and paper. Incorrectly sorted waste is first treated in a sorting centre before being redirected to a household waste treatment centre. The price for "sorting rejects" corresponds to the costs of treating selective collection and household waste, plus a transfer cost.

In connection with this new pricing, a programme for characterising incoming garbage dumpsters was also developed in consultation with each territory. Finally, bilateral meetings were held with all EPTs to set up new collection plans. The objective is to improve the quality of sorting as part of the extension of sorting instructions to improve performance.

A word from



Thierry Le Gac President of Syctom's Pricing committee, Territorial councillor, Boucle Nord de Seine "In 2021, we worked on price revision and the creation of a so-called "anomaly" line dedicated to sorting errors, to raise awareness about the cost of treating them and the need to reduce their volume. The aim is to justify this pricing to the territories, to make it acceptable and understandable. In general, we want to strengthen our communication with the territories for a better understanding of our pricing policy".

A collective mobilisation

As an industrial and strategic partner in waste management, Syctom participates as an expert in professional forums dedicated to waste and ecological transition to share its know-how, best practices and experiments. As a major player in waste management at the national level, it lobbies with public authorities to make the challenges and complexities of territorial waste management heard and, in particular, to underscore the role that local authorities can play in it.

COMMITTED INDUSTRIAL PLAYER Sharing knowledge

Syctom contributed to the 4th national conference on household waste organised in March 2021 at the Maison de la Chimie, which 300 participants attended online. "We want to find solutions together to preserve the planet, and to ensure that tomorrow there will be less and less waste," said Eric Césari, President of Syctom, in his opening speech. Syctom representatives took part in exchanges and debates between professionals in the sector. It was an opportunity to reiterate the need to invest in virtuous solutions to overcome the environmental challenges and to integrate the chain of treatment solutions into the urban fabric by adapting to local specificities. The need for a stable and fair legislative and fiscal framework was also underlined, as well as the educational efforts to be made on projects that are not always well understood, such as those related to digestion and energy recovery. The circular economy has emerged as the most viable solution to the scarcity of resources. The results of the

first "Citizenship and household waste" observatory conducted by the Viavoice Institute on behalf of Syctom were also presented.

The syndicate also participated in the 100th Astee² Congress devoted to the challenges of ecological transition related to water and waste, which was held in September at the Cité des Sciences et de l'Industrie. It was asked to shed light on the management of its industrial assets, the capture of CO_2 in incineration fumes, the Cometha project and the treatment of industrial effluents. It shared its expertise during training sessions, technical visits and workshops. During the Congress, the Board of Directors of Astee unanimously elected as its new President Pierre Hirtzberger, who is also General Director of technical services at Syctom.

The syndicate also took part in the consultation on the development of the Territorial Climate Air Energy Plan of the Metropolis of Greater Paris, in favour of climate resilience, energy transition and air quality. As a member of the Energy Advisory Committee, it notably put forward proposals on the Metropolitan Energy Master Plan.



More information on the "Citizenship and household waste" observatory (Viavoice)

The public waste sector needs a stable and fair legislative framework

LEADER IN WASTE MANAGEMENT Influencing the public debate

In conjunction with the SIOM de la Vallée de Chevreuse, Syctom initiated the creation of a working group in March 2021 bringing together representatives of numerous waste management syndicates in Île-de-France, in order to make joint decisions on common issues and be better heard by the State and the players in the sector. The topics discussed included: taxation with the increase in the General Tax on Polluting Activities (TGAP), the treatment of food waste, sorting and recycling channels, the plastic bottle deposit system for recycling. In a motion adopted by its Committee of representatives on 2 April 2021, Syctom asked the government to adapt the TGAP with respect to three points. It demanded that the application of its new rates be postponed by one year, with a gradual smoothing over six years, so that their increase



Common mobilisation against the introduction of a plastic bottle deposit system for recycling

(five-fold for energy recovery) does not constitute a financial shock for the local authorities and, ultimately, for local taxpayers. It also wanted the TGAP rates to be reviewed based on the energy performance of the facilities. Finally, it recommended that the proceeds from the TGAP be allocated to waste prevention, through a dedicated ADEME fund.



Syctom participates /////in the 100th Astee congress

EXPERTISE IN ACTION ON THE GROUND

Syctom engages with outreach audiences to change perceptions and behaviours related to waste. Through awareness-raising operations, the dissemination of information and the transmission of knowledge, it not only helps people understand the need to avoid producing waste and sort better, but it also encourages action to preserve natural resources. Internationally, by sharing its know-how, it contributes to the implementation of more sustainable development.





Direct ties with the public

Syctom multiplies and diversifies its educational initiatives so that good practices are implemented at the source, either by opening its centres to visitors, organising events or supporting its member territories to reach out to the public. The objective is to promote the development of the virtuous circle of the circular economy through awarenessraising and training.

OPENING UP TO THE OUTSIDE Learning by seeing

With the relaxation of health restrictions imposed in the wake of the Covid-19 pandemic, open days for the general public and group visits (partners, delegations, schoolchildren and residents) resumed in 2021 in the waste treatment facilities. The objective is to make people understand Syctom's action and discover *in situ* what becomes of the waste in order to better measure the issues at play. An online registration platform has been created to facilitate visits to the Paris XV sorting centre and the Isséane energy recovery centre in Issy-les Moulineaux, where an open day was organised on 27 November.

THE ESPACE INFOS DÉCHETS



In order to encourage residents to reduce their waste and sort it better to help preserve natural resources, Syctom opened an Espace Infos Déchets (Waste info booth) in December 2021 at 12, rue du Château des rentiers in the 13th arrondissement of Paris.

It primarily invites groups of school children and leisure centres to this place of learning and fun to explore the life cycle of waste through interactive games, workshops, exhibitions and videos.

The permanent exhibition space is organised around the themes of home, free time, the city, school and work. For its inauguration, the temporary exhibition space was dedicated to packaging-free shopping, in connection with the 9th edition of the Zero Waste Design competition. In addition to schoolchildren, Espace ID will eventually open up to all audiences. It is a unique place in Greater Paris, entirely dedicated to raising awareness and preventing waste.



More information on Espace Infos Déchets

A word from



Léa Vasa President of Syctom's Circular economy committee, Councillor of Paris

"We must boost prevention policies with a two-fold objective: limit the production of waste and go beyond the recycling channels. Waste reception centres and recovery centres, for example, are essential tools for promoting the circular economy. And of course, we must spread ecoresponsible messages, especially to the younger generations. This is the whole purpose of the new Espace Infos Déchets".

School children visiting the Espace Infos Déchets.



15,600

composters were made available to local authorities and financially supported by Syctom in 2021

PRESENCE IN THE TERRITORIES

Awareness-raising and training

Mobilised on an as-needed basis, eco-faciliators work in the field to familiarise the general public with eco-friendly practices, in particular with new sorting habits linked to the extension of sorting instructions and the sorting of food waste. As essential links for waste prevention, they have a role to play within the framework of a system implemented and financed by Syctom to reinforce the awareness-raising actions carried out by its member local authorities.

Syctom also supports its members to promote quality local composting, in particular through oneday theoretical and practical training programmes. Technical advisors and local representatives of the local authorities can thus learn to implement composting methods, including vermicomposting, and/or to carry out a local project such as shared composting, integrated management of green waste or autonomous composting in schools.

In anticipation of the legal obligation to sort bio-waste at source that will come into effect in 2024, Syctom has reinforced this backing as part of the 2021-2026 local authority support system. Composting not only makes it possible to recover organic waste by returning it to the soil, it is also an excellent tool for involving citizens in an overall approach to reducing and sorting waste. In 2021, 227,000 people will compost in Syctom's territory.

A word from



Eliane Vaïtty Eco-facilitator team leader

"Most of the time we receive a warm welcome when we visit door-to-door. People are happy to get information and speak directly to someone who can answer all their questions. They don't always know who to contact, especially when it comes to sorting. They are pleased that we are making the effort to come to them. They often appreciate us for talking to them about sorting and the environment. In the vast majority of cases, they are friendly. Sometimes they are indifferent, but those who are aggressive are an extreme minority".

PARTNERSHIP WITH THE STADE FRANÇAIS PARIS Extending education to the sports community

In order to broaden the circle of audiences and sectors that it reaches through its awareness-raising actions, Syctom wishes to gear up its methods of intervention by forging collaborations with recognised institutions.

In line with the Grand Défi, which includes education, information and local training, Syctom joined forces in 2021 with the Stade Français Paris to raise awareness among young people about waste prevention. A partnership has been signed with the Stade Académie, the rugby club's training structure, which is represented in the different zones of its territory. By investing in the sports world, the syndicate is diversifying its educational channels. It will be able to reach out to 700 young club members as well as the adults who supervise them. Its action programme includes multi-pronged interventions: visits to waste treatment facilities, events with eco-facilitators, mobilisation and training of ambassadors, pilot actions with behavioural experts, and much more. This agreement is part of the CSR policy of the Stade Français Paris built around three pillars: Train -Rally - Innovate. It thus strives to contribute to the education of the citizens of today and tomorrow, and to manage waste responsibly during its sporting events and the practice of very young children.



An educational approach extended to young athletes.

DZD COMPETITION

10 years of creativity

Since 2012, Syctom has been inviting students and fresh graduates from design schools to reflect on the challenges of eco-design and waste reduction during the Zero Waste Design competition. Launched on a different theme each year, the DZD competition encourages them to integrate the circular economy into their future profession.

In ten years, this competition has become a benchmark in the academic world of design. It is notably cited as a good practice on the platform of European Circular Economy stakeholders, supported by the Commission and the European Economic and Social Committee.

With packaging accounting for around 20% of household waste, the 2021 edition focused on the development of packaging-free stores. It was sponsored by designer Mathieu Lehanneur and organised in partnership with the association Réseau Vrac and the Mousquetaires Group. A total of 172 students submitted their proposals. A virtual exhibition presented the 20 projects that made it to the final round and the award ceremony for the 4 winners was streamed live on Syctom's Youtube channel in June 2021. Launched in September 2021 on the theme *"New era of sports, how to eco-design sporting events"*, the 2022 edition was conducted in partnership with the Stade Français Paris and the French Badminton Federation, under the aegis of two patrons: designer Régine Charvet-Pello and international rugby player Lenaïg Corson. The objective is to seek to include sporting events in the circular economy, by improving the sustainability of the goods and services necessary for organising them. Find out more: www.designzerodechet.fr

1,500 students from 87 schools and universities in ten years



In parallel with the 100th Astee³ congress, and as part of the European Sustainable Development Week, the exhibition "Ensemble pour la planète! L'eau et les déchets comme vous ne les avez jamais vus" [Together for the planet! Water and waste like you've never seen before] was co-hosted by Syctom along with Eau de Paris as part of an Astee-Universcience partnership. This event, which included workshops, provided an opportunity to raise awareness among school children and families about essential public services in the field of water and waste.

3. Scientific and Technical Association for Water and the Environment

Grassroots information

As a player committed to the ecological transition, Syctom constantly conveys messages to encourage more reasoned consumption and give a second life to waste through targeted tools. It is also for the sake of transparency and to educate people about its activities that it develops its communication on waste management.

EDUCATING SCHOOL CHILDREN

An educational kit from kindergarten to high school

In 2021, Syctom provided its member local authorities with a teaching kit on food waste. It was designed to help teachers, facilitators and canteen staff to raise awareness on the topic among pupils, from kindergarten to senior year. Food wastage, sorting and collection of waste, composting and digestion are discussed in a playful way, with the mascots Val' the Banana and Jo' the Carrot. These tools can be downloaded from the educational area of the mesdechetsalimentaires.fr website.

OPTIMISING COMMUNICATION Multiplying transmission channels

To keep track of the news as closely as possible, Syctom increased the rate of publication of its institutional communication materials. With five issues of *Syctom mag* per year and one issue of the newly formatted newsletter per month, the syndicate provides richer and more diversified information, with a constant concern for transparency. It continues to deploy its digital communication with enhanced visibility on social networks: Twitter, Facebook, Instagram, LinkedIn, YouTube.



Mascot to raise awareness of sorting food waste



More information on the teaching kit



In April 2021, Syctom launched a communication campaign to strengthen the mobilisation of territories for the sorting of packaging and paper.

Social and environmental responsibility

Determined to strengthen transparency and access to information, Syctom is forging ahead in the field of open data. Its commitment is also expressed through its purchasing policy, which favours collaborations with companies involved in the ecological transition and the fight against exclusion.

OPEN DATA Making information more accessible

Syctom has put data at the heart of its strategy, with the objectives of facilitating access to increased information for all stakeholders and improving its operational management. Like many players, it has a large and constantly growing amount of data. A major challenge for Syctom is to develop this data so that its public action is easily understood by all. After an assessment of the internal data potential carried out in 2020, the priorities of its data strategy were set in 2021. The open data project launched in late September provides for the visualisation of financial and environmental data (atmospheric emissions from energy recovery units) so that Syctom's stakeholders can appropriate them more easily. As part of the Partner Territory project launched in mid-December, an interactive dashboard will be created to highlight the key data of each EPT member of Syctom. One of the topics addressed is producing indicators for weighing data and metadata.

A word from



Zineb Zouaoui President of Syctom's Social and Environmental Responsibility (CSR) Committee, Territorial Councillor, Boucle Nord de Seine

"We launched the process around the strategic orientations of our responsible public procurement policy, in order to reduce the environmental footprint of Syctom's purchases as much as possible. Future work will be carried out in connection with the recruitment of a buyer specialising in sustainable purchasing. We must be exemplary in these matters, so that we can be demanding with our partners concerning environmental clauses within the framework of public procurement".

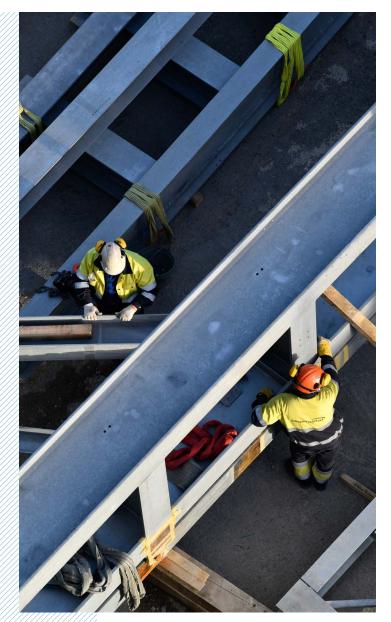


More information on Open Data

RESPONSIBLE PUBLIC PROCUREMENT

Sustainable purchases

Syctom has set itself the objective of identifying all purchasing segments eligible for responsible purchasing. Driven by Syctom's Social and Environmental Responsibility (CSR) Committee, this responsible public procurement approach was launched with two strategic thrusts. To reduce the environmental footprint of its purchases, Syctom aims to strengthen its commitment to the circular economy, generalise the Quality Safety Environment (QSE) criteria while awarding its contracts, encourage its service providers and suppliers to comply with environmental obligations and better take into account its environmental externalities. The local development of social inclusion will also take several paths. The professional reintegration of Metropolis residents who are facing difficulties in finding employment will be generalised in the syndicate's worksites or operating contracts. The support provided to re-employment structures and recycling centres will be amplified, in particular through purchases from the social and solidarity economy sector. Finally, it will continue to promote the integration of workers with disabilities in its teams and identify players in the social inclusion chain network.



Priority given to people with difficulties in finding employment

ACTING FOR INTEGRATION AND SUSTAINABLE EMPLOYMENT

As part of its responsible purchasing policy, and in accordance with its CSR policy, Syctom intends to multiply collaborations with companies actively engaged in the ecological transition, including the fight against exclusion.

Integration clauses are integrated into its public works contracts.

Thus, on the worksite site of the new energy recovery unit in Ivry/Paris XIII, within the framework of the tripartite agreement signed with the IP13 Group and the SERCI (Social integration clauses service of Ivrysur-Seine, Vitry -sur-Seine and Choisy-le-Roi), people facing difficulties in finding a job must be employed for the equivalent of 135,000 hours as security guards, cleaners, scrap metal workers, formworkers or fitters.

In the modernised Saint-Ouen-sur-Seine centre, part of the hours worked will have to be reserved for integration, as is the case for the project in Romainville/Bobigny.

With regard to operation, an enterprise that aims to re-integrate people through work was created in May 2021 by Suez and its subsidiary Rebond Insertion at the sorting centre in Paris XVII. A total of 56 employees under fixed-term integration contract of 24 months were assigned to sorting and site cleaning.

A committed international action

With its expertise, Syctom contributes to the international effort to preserve the planet's resources and improve public health, in a systemic and global approach, and guided by a long-term vision. It provides support to promote the development of efficient waste management policies abroad.

2021-2026 STRATEGY

Three areas of intervention

Building on the actions undertaken for several years, Syctom has defined its international strategy for 2021-2026 in view of strengthening its mobilisation. In line with the achievement of the SDGs defined by the United Nations, it is based on three areas of focus: solidarity, by supporting projects to improve waste management; cooperation, to share expertise and develop strategic partnerships; and advocacy to forge alliances and exert influence on policy and technical guidance in France and internationally. The stakes are high: according to the World Bank, four billion people use illegal or polluting landfills.

SOLIDARITY Support for nine projects

Syctom is continuing the solidarity actions carried out since 2015 in order to improve the health and social living conditions of people in developing countries. As part of an annual call for projects, it provides financial



Support for 39 international solidarity projects since 2015

support for projects to strengthen local capacities for sorting, recycling and recovering waste, or to fight against waste and environmental pollution. Thus, in 2021, in partnership with other public development aid players, it undertook to co-finance nine international waste management projects, led by NGOs or local authorities. It's contribution amounted to approximately €900,000. The 2022 call for projects was launched in December 2021.

A word from



Pascal Pelain Chairman of Syctom's International Solidarity and Cooperation Committee, Vice-President of Boucle Nord de Seine "An assessment of international solidarity and cooperation projects was carried out in 2021. We have established specific criteria for selecting the projects to be funded and for creating close ties with the local authorities that support them. This is a guarantee of stability and efficiency. Nine applications were selected in 2021 for a budget of €900,000. Syctom agents participated in the examination of the applications, which guarantees a detailed and reliable analysis".

COOPERATION Two technical assistance projects

Syctom promotes French know-how through its technical assistance actions, with national or international partners.

As part of this cooperation, it is involved in two projects, for which it obtained financing within the framework of calls for projects respectively launched by the French Development Agency and the French Ministry of economy, finance and recovery. In the Philippines, Syctom is coordinating a semi-industrial composting project for organic waste intended to support the efforts to clean up the Pasig River already initiated by the SIAAP. In Kazakhstan, Syctom is working alongside French SMEs on a project for the treatment of organic waste in Akhol. Syctom's teams are involved in the research and development of replicable solutions for the separate treatment of organic waste.

ADVOCACY Promoting the circular economy

Through advocacy, Syctom strives to ensure that the issue of waste gains greater attention in European bodies, as well as for the implementation of the SDGs. It was able to successfully influence three European Parliament resolutions.

The resolution on the new circular economy action plan (February 2021); the one on the integration of European energy systems; the one on the strategy to reduce methane emissions in the European Union. It also reiterated its positions on biogas units or biomethane production from organic waste. The syndicate also joined the Circular Economy Solutions Dialogue (CESD), an international body of high-level circular economy experts whose reflections enrich the discussions during summits associated with the G20, in particular the Urban 20 (sustainable development in metropolises). Finally, in 2020, Syctom signed the European Plastics Pact which aims to make plastic more eco-compatible and include it in the loop of the circular economy. As such, it passes on the best practices of its members and draws inspiration from initiatives tested in Europe to promote improved plastic recyclability.



In January 2021, Eric <mark>Césari</mark> welcomed MEP Agnès Evren during a visit to Isséane

A word from



Head of institutional relations, Deputy general directorate for mobilisation, public and territories

Caroline Chal

In 2021, we adapted to the new working methods imposed by the pandemic so that we remain represented on all fronts: conferences, parliamentary meetings, consultations, meetings with the European Commission. The challenge was to be constantly on the alert to send the right messages at the right time, on subjects related to Syctom's priorities and the challenges of the sector. Only then will we be able to remain credible and audible to the European institutions.

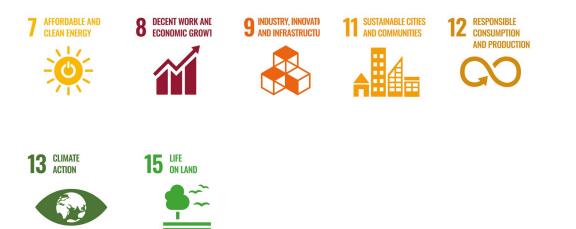
CONTRIBUTION TO 21 EUROPEAN CONSULTATIONS

Between January 2020 and December 2021, Syctom contributed to 21 European consultations on topics that reflect its priorities: Industrial Emissions – Taxonomy Regulation – LIFE Programme 2021-2027 – European Climate Pact – Packaging Waste – Methane Strategy – New Consumer Agenda – Consumer's Role in Green Transition – "Zero Pollution" Strategy – Sustainable Products Initiative – Regulation on the Environmental Performance of products – Renewable Energy Directive – Revision of the European regulatory framework on gas – Biosourced, biodegradable and compostable plastics – Reduction of food waste – Pollution of microplastics.

EFFICIENCY TO BOOST THE CIRCULAR ECONOMY

Driven by a long-term vision, Syctom is modernising its facilities to optimise their technical and environmental performance and supports innovative and sustainable waste recovery projects. In line with its strategy, it is stepping up its efforts to optimise its operating expenses and income and its day-to-day management expenses, while maintaining high standards when it comes to controlling its environmental impacts.





Transforming our industrial facilities

With the objectives of reducing incineration, improving energy and material recovery and avoiding the burial of recoverable waste, Syctom is continuing to ramp up its multiyear investment plan to acquire more efficient treatment units and come up with new innovative channels conducive to a low-carbon economy. The challenge is to meet the requirements of a sustainable city.

MODERNISING OUR FACILITIES

Increasing efficiency and acceptability

Requalification on track in Saint-Ouen-sur-Seine

The modernisation project for the Etoile Verte energy recovery unit in Saint-Ouen-sur-Seine gained momentum in 2021. The architectural and landscaping integration of the site made significant progress, with in particular the cladding of the façades of the household waste storage area, work on the façades, the start of the finishing work in the office building on Rue Ardoin and the start of the installation of the automated bottom ash transfer bridge to the Seine. As regards improving environmental performance, the second dry flue gas treatment line was commissioned in June, and preparatory work for the requalification of the third and final line was initiated. Work to rehabilitate the treatment of industrial effluents also entered its final phase.

Reopening of the sorting centre in Nanterre

After 18 months of work, the sorting centre reopened in August 2021. It was redesigned to adapt to the extension of sorting instructions for all packaging and makes full use of new technological advances. It also meets the needs of the territory by receiving selective collection from a part of western Paris. It has an innovative sorting process and its processing capacity has been increased by nearly 40%, from 40,000 tonnes to 55,000 tonnes per year. The reception area now receives heavy load trucks in addition to dump trucks, in order to create an effective network in the territory. The new sorting chain uses the most efficient technologies to increase productivity and improve the working conditions of agents.

The overhaul of the facility marks the completion of a global investment programme of €150 million to adapt Syctom's sorting centres to the new instructions and the growing treatment needs of its territory. The syndicate's overall packaging and paper sorting capacity now stands at 205,000 tonnes per year.

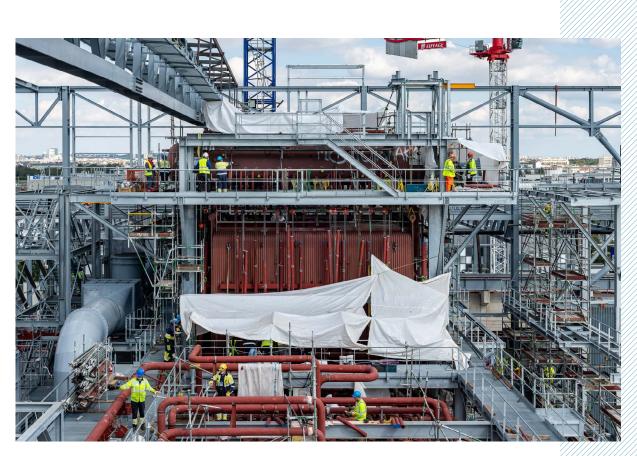
THE MODERNISATION OF THE NANTERRE SORTING CENTRE IN TWO FIGURES

220 machines with simplified maintenance

17 tonnes of treatment capacity/hour

A watershed in Ivry/Paris XIII

The third year of construction of the new energy recovery unit in lvry/Paris XIII went according to plan. After the structural work phase, the teams mainly focussed on assembling the main equipment that makes up the treatment process: grids, boilers, bag filters, catalytic reactors, turbine-generator units, overhead cranes, etc. The building closure work began in autumn, as did the insulation of the smoke treatment system. Boiler no. 1 was hydraulically tested and qualified by an authorised body. On the artistic front as well, the project crossed a milestone when a new version of the Musée du Monde en Mutation" (MMM, Museum of the Changing World) website went on line. Moreover, new artistic projects were completed, including the exhibition of posters in situ by the Super Terrain collective.



Assembly of the boiler for the first treatment line, with a superheated steam production capacity of 92 tonnes/hour. 4,700 welds were needed to assemble all the components and pipes.

300 craftsmen on the construction site

25,850 hours of integration and local employment in 2021

Sobriety and circular economy in Romainville/Bobigny

Through continued discussions with the territory and the public, Syctom adopted a new reconstruction programme in April 2021 for the household waste treatment site in Romainville/Bobigny. The project had been suspended in early 2020. In view of the changes in the context of waste management since its launch, it was necessary to adjust it, while maintaining the same level of ambition and environmental and architectural commitment. The adjustments made concern in particular the abolition of pre-treatment for residual household waste and food waste. However, the project continues to move forward according to the same fundamental objectives (types of waste and quantities received on the site, reception of food waste, use of river transport).

In line with the desire of the territory, it integrates an imperative of sobriety, both technically and economically, and is part of a circular economy approach. A cooperation committee was set up, bringing together the towns of Romainville and Bobigny and the EPT Est Ensemble and Syctom to define a centre of excellence for the circular economy and reuse, including a waste reception centre and a recycling centre. Conducted under the aegis of the National Commission for Public Debate, the consultation continued with the help of several public participation tools: website, meetings with residents and members of the Citizens' Group, public videoconference meetings. A post-consultation report for the year 2021 has been published.

The future centre, planned for 2026-2027, will consist of four major modules: a reception and transfer unit for residual household waste and food waste, a multimaterial selective collection sorting centre, a port capacity on the Canal de l'Ourcq to evacuate part of the waste by barge as well as a centre of excellence for the circular economy. The request for proposals was launched in 2021 for the project management contract, slated to be awarded in early 2022.

From 2026-2027, commissioning of the various modules according to the phasing of the works



The sorting and transfer centre in Romainville/Bobigny

The Biodigestion project in Gennevilliers

The bio-waste digestion unit in the Gennevilliers port exemplifies the ambition of Syctom and its local authorities to accelerate the sorting of food waste at source and to maximise its energy potential. Indeed, given the nature and volumes of this bio-waste on the scale of Syctom's territory, whether domestic in origin or generated by commercial activities, it was decided to opt for a digestion solution to treat it. The unit will recover up to 50,000 tonnes of bio-waste per year and will notably supply the public bio-NGV (natural gas vehicle) station located at the port. The digestate, the residue from the treatment, will be used as fertiliser for field crops and evacuated by river. A land use agreement was signed in March 2021 with Haropa Port and Sigeif⁴ to set up this innovative industrial site. The winner will be announced at the end of the tendering process in 2022. Throughout the implementation of the project, Sigeif and Syctom will carry out a consultation with the territories concerned, local residents and port stakeholders. The investment, amounting to €52 million, will be increased to €29 million by Syctom and €1 million by Sigeif.

Find out more: biomethanisation.syctom-sigeif.fr



Signing of the land use agreement to set up a digestion plant in the Gennevilliers port between Catherine Rivoallon, President of Haropa, Éric Cesari, President of Syctom and Jean-Jacques Guillet, President of Sigeif

4. Public supplier of gas, electricity and local energy in Île-de-France

SUPPORTING THE PROJECTS

Concerned about the transparency and acceptability of its facilities, Syctom is developing communication tools to strengthen ties with the local residents. In Romainville, meetings and public meetings were organised to discuss the "Reinventing Romainville" project and newsletters were distributed to publicise its new policies. To help people see and understand the worksites from the inside, in Ivry/Paris XIII as in Saint-Ouen-sur-Seine, educational resources and videos were posted online, in particular in the form of timelapses. In Ivry/Paris XIII, Flash Info was broadcast to the local residents to keep them informed of the stages of the work. The artistic initiative of the Musée du Monde en Mutation, conceived by Stefan Shankland as "a laboratory to experience the changing world" is accessible online and on Instagram and Facebook accounts (@museedumondenmutation).



Artistic initiative "Musée du Monde en Mutation"

INNOVATIVE SOLUTIONS FOR TOMORROW

Experimenting with advanced technologies

Micro-algae fed with CO, from incineration fumes

Launched in 2016 by Syctom and Setec Environnement, the international research and development programme on the recovery of carbon from incineration fumes continued in 2021. It aims to capture the CO₂ released by energy recovery centres to feed micro-algae and thus generate bioplastic. The laboratories of the Spanish University of Almeria are studying seven prototypes of photo-bioreactors to find the most efficient algae production model. The selection of cyanobacteria (microorganisms) has been finalised and their diet has been defined to guarantee the production of material with a high polymer content. Next come the development and validation of bioplastic extraction and production processes for the manufacture of sustainable products. An additional study will be conducted in 2022 on the search for outlets and the steps to be implemented to create a sustainable channel.

Cometha: pilot units under construction

Launched through an innovation partnership in 2017, the Cometha project led by Syctom and SIAAP⁵ focusses on the co-digestion of sludge from waste water treatment and the organic fraction of household waste. Aimed at the optimal production of biomethane, while generating a minimum of waste, it offers a testing ground for future processes. A dedicated website and a thematic brochure describe the project.

In 2021, the construction of two pilot units began on the sites of the SIAAP factories in Seine Grésillons (78) and Seine Valenton (94) by the groups selected in phase 2 of the innovation partnership: respectively the French-German group Tilia / GICON / France Biogaz / DBFZ / Institut Fraunhofer and the Franco-Belgian group CMI Proserpol / Sources / UniLaSalle / UTC.

Work on the networks was carried out in the first half of 2021. These two units will operate for several months, during which the respective performances of the processes will be evaluated and compared. In Seine Grésillons, a digestate treatment channel combining several thermal processes as well as nutrient recovery technologies will be studied. At Seine Valenton, a digestion process and a high-temperature pyrolysis reactor will be implemented.

Syctom presented the Cometha project at the conference organised in October by GRTgaz on the pyrogasification of waste for injection. This process makes it possible to recover solid residues as green gas that can be directly injected into the gas networks. Find out more: www.cometha.fr

<image>

5. Greater Paris Interdepartmental Sanitation Authority

Research and development on the recovery of carbon from incineration fumes

Study on using hydrogen engines for river transport

Concerned about limiting the environmental impact of transporting waste, Syctom is participating in the transnational H2SHIPS programme, developed within the framework of a European call for projects for the decarbonisation of river transport. The use of hydrogen to power barges would reduce CO₂ and fine particle emissions. The H2SHIPS project, funded by the European Union, is based on three pilot operations, in France, Belgium and the Netherlands. Syctom invested in this particularly through a specific study on the motorisation of barges dedicated to waste disposal in Romainville/Bobigny. The results of this study were presented to the consortium in June 2021.

Partnership with the CoPack Chair

A partnership agreement was signed with the AgroParisTech Foundation. It allows Syctom to join the CoPack Chair, which aims to better understand and streamline the life cycle of food packaging and contribute to the eco-design of new organisational and technical solutions. It is because of its recognised expertise in the waste treatment channels that Syctom was asked to join this chair, alongside players in the agri-food sector, and to participate in research orientations. Launched for five years, the Chair will work on a selection of four operational projects for its first year of activity in 2022.

Learn more: www.chairecopack.fr

A word from



Frédérique David Officer in charge at the General directorate for technical services

"Through cross-cutting collaborations at Syctom, we are able to share our experiences and know-how, our ideas and tools, work differently and in new fields, and thus enhance our expertise. Partnerships with the world of research and development contribute to the emergence of innovative technologies that can improve the environmental performance of Syctom's facilities".

The Max-Al[®] robot can identify materials and make sorting decisions autonomously

ARTIFICIAL INTELLIGENCE TO SUPPORT WASTE SORTING

The investment in a Max Ai® robot marked the entry of artificial intelligence into the sorting centre in Nanterre. Installed upstream of the polyethylene (PE) packaging sorting line, this autonomous machine is equipped with optical sensors, algorithms and two articulated arms to recognise unwanted waste in real-time (thermoformed trays, aluminium and other residues) and remove them from the conveyor belt. Capable of performing 65 movements per minute, this robot has increased the quantity of waste sorted and the quality of its selection.



Controlling environmental impacts

Environmental responsibility is one of Syctom's priority commitments. This is why the control of atmospheric, noise and odour emissions, like that of industrial effluents from its facilities, are monitored with utmost vigilance. The syndicate is also strengthening its resources to limit the impact of its activity on the environment.

ENVIRONMENTAL MONITORING A wide range of controls

Syctom continuously monitors atmospheric emissions from its energy recovery units (ERU), thanks to measurements taken in the stacks. In addition to the mandatory annual controls of all regulated pollutants, carried out by the operators of the centres, there are two additional checks that the syndicate orders from independent accredited bodies. Measurements are also made during the furnace shutdown and restart phases, at Ivry/Paris XIII and Isséane. In anticipation of the regulatory obligations that will come into force at the end of 2023, mercury concentrations are also monitored at Isséane through measurements in the stacks. Environmental monitoring around ERUs completes this system, based on the analysis of precipitation as well as on biomonitoring using mosses and lichens. They are used to characterise all the atmospheric fallout. In addition, since 2020, hives have been installed alternately each year in an ERU, with bees acting as air quality sentinels within a radius of three kilometres around their hive. In 2021, they were installed in the centre in Ivry/Paris XIII.



Hives in Ivry/Paris XIII to measure air quality



ENVIRONMENTAL MONITORING AROUND ERUS

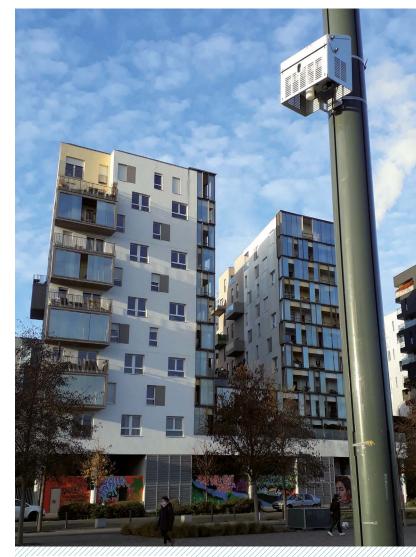
As part of the environmental monitoring plan, campaigns to measure the atmospheric fallout of dioxins, furans and heavy metals are carried out annually around each of Syctom's energy recovery units for two months, using precipitation collectors, known as Owen gauges. Nine of these devices are installed in line with the prevailing winds in the facilities, in accordance with the Ineris⁶ methodology. Four additional gauges located outside the fallout zone of the centres' plumes serve as controls. The reports are then drawn up by Airparif. In addition, moss and lichen samples are also taken around ERUs and at control points. This monitoring system is used to compare the levels of pollutants around the facilities with the background noise. The reports drawn up at the end of these campaigns are sent to the Prefecture and included in the public information files and in the presentations made during the site monitoring committees, available on the Syctom website.

NOISE AND ODOUR NUISANCES

Ongoing assessments

Syctom also pursues a proactive noise policy, in order to minimise noise pollution due to day-to-day activity and work on its sites. An agreement has been signed with Bruitparif which aims to deploy noise sensors in the energy recovery units in Saint-Ouen-sur-Seine and lvry/Paris XIII to monitor any noise impacts and to take corrective measures, if necessary. Acoustic measurement campaigns were also conducted during the site acceptance phase in Paris XV and Saint-Ouen-sur-Seine. The syndicate is also stepping up its vigilance concerning odour emissions from its sites. Around twenty odour sensors were thus installed in 2021 on the site in Saint Ouen sur Saina, currently being

the site in Saint-Ouen-sur-Seine, currently being requalified, and in the Docks district, to continuously assess the intensity levels of odours and identify their sources as well as their area of impact. Finally, for the projects in Gennevilliers and Romainville/Bobigny, the specifications include an "odour" component with strict limits to be respected, well beyond what is imposed by current regulations.



Ultra-precise sensors to identify and treat odour sources

Stringent management

Syctom intends to meet the technical and environmental challenges of the ecological transition while providing the best service at the best cost. Efficient and forward-looking, its management adopts a rationale of optimising procedures, flows and costs to generate savings, especially since external factors such as the increase in the TGAP (€12.8 million for 2021) and the volatility of commodity prices are impacting its budget.

FINANCIAL POLICY

Use of the bond market

While its outstanding debt (€826.2 million at the end of 2021) still mainly came from the banking market, Syctom wishes to prioritise the use of bond loans (exclusively as "green bonds") that are less expensive than bank loans, in order to deploy a sustainable and responsible financial strategy.

The "A+ stable" rating, awarded to it for the 4th consecutive year by Standard & Poor's in view of its budgetary performance, allows it to renew its bonds for implementing its structural projects - after those issued in 2021 to the tune of €60 million. They will exclusively take the form of green bonds, reflecting the syndicate's commitment to the ecological and energy transition.

POOLING OF RESOURCES Complementary action with the syndicates

Syctom is strengthening its partnerships with neighbouring syndicates for facilities pooled on a metropolitan scale, in a logic of territorial solidarity

and improvement of public service.

In 2021, Syctom's residual household waste treatment needs amount to 1.9 million tonnes. Apart from the treatment capacities of its four energy recovery centres, Syctom uses additional external centres. This year, 76,000 tonnes of RHW were treated in sites covered by an inter-syndicate agreement signed with Syctom: AZUR (Argenteuil), SITRU (Carrières-sur-Seine), RIVED (Rungis), SIGIDURS (Sarcelles), SIETREM (Saint-Thibault-des-Vignes), SIOM de la Vallée de Chevreuse (Villejust).

These partnerships, forged between public waste management players, aim to optimise energy recovery units and reduce landfilling.

Modernisation in Saint-Ouen-sur-Seine, one of the structural investments





MANAGEMENT MODE Experimentation of a SEMOP

In order to have a more precise knowledge of the direct and indirect costs of sorting selective collections and to optimise such costs, Syctom decided, after preliminary studies carried out in 2020, to set up a future SEMOP (semi-public company with a single operation) in which it would be a minority shareholder to operate the sorting centre in Sevran. An industrial economic operator will be selected following a competitive bidding procedure launched in September 2021. This experimentation with a different management method, which gives Syctom a more active role in the operations, will help it better understand the costs and manage the issues jointly. If successful, it could be futher developed.

REGULATION OF FLOWS An online logistics platform

Optimising the regulation of household waste flows is one of the avenues that Syctom has explored since 2019 to reduce the use of landfilling, as part of a partnership with the transfer centre in Claye-Souilly (77). This site can receive up to 55,000 tonnes of waste produced by the towns in eastern Paris, which makes it possible to assign HW depending on available treatment capacity of the energy recovery units (ERUs).

On this same site, baling equipment is used to build up a buffer stock of household waste, which can thus be stored for up to six months: this is a useful solution, particularly to meet the high energy demand in winter. The flow management software, used since early 2021, has improved the whole system, whether it concerns the forecast of receptions, the fluidity of information on furnace capacities or the distribution of waste between ERUs, taking into account, for example, scheduled shutdowns of the facilities.

A word from

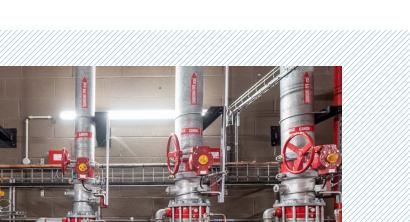


Valérie Billuart Executive assistant to the Deputy general directorate for waste use and recovery at Syctom

"To control the costs of the waste treatment service, we are constantly looking for optimisation and there are many levers: increase the treatment capacity of the sites, regularly renegotiate the contracts for the sale of materials and energy, find remuneration packages for service providers, performance incentives, and support changes in tax legislation".



Optimisation of steam production to feed district heating networks





Reinforcing our fire-fighting capability

RISK MANAGEMENT A logic of anticipation

To improve security and safety in its facilities and better control its costs, Syctom has defined a building maintenance strategy for all of its sites and maintenance indicators have been deployed in particular for the processes in sorting centres. Fire-fighting capability is also constantly reinforced in the facilities, in Sevran and Nanterre in particular. "Flash missions" were carried out to check compliance with safety instructions on the sites, safety sheets were drawn up for drivers and an awareness video was broadcast to the teams. A study to assess the vulnerability of energy recovery units to flooding was also undertaken. With regard to cybersecurity, the audit carried out at Isséane was completed and the security of Syctom's computer network was strengthened. /2,5/



On-site security, vigilance

ORGANISATION AND INTERNAL RESOURCES

As a player who provides a responsible public service, Syctom strives to optimise its internal operation and organisation. Its commitment is evident in the attention paid to the professional satisfaction of its employees and well-being at work.



Supporting our teams

Through its support actions, Syctom intends to offer its teams an improved quality of life at work.

RELOCATION TO KADENCE Promoting the team spirit

Syctom moved in January 2021 to the 13th arrondissement of Paris, to Kadence, a building with modern and modular workspaces and quality living spaces. While developing its office floor space, the syndicate paid particular attention to collective and collaborative spaces, the use of digital technology and the working environment. Groups of agents were mobilised to carry out a collective reflection on the appropriation of premises and the use of shared spaces (places for friendly meetings and recreation), with the health crisis coming to an end. These focus groups recommended good practices for collective life at work and adjustments to the layout or fitting-out of spaces.

WORKING ENVIRONMENT Flexibility and responsibility

To comply with the Civil Service Transformation Act of 6 August 2019, which puts an end to exemptions to the legal annual working time of 1,607 hours in public bodies, Syctom conducted a consultation with employee representatives in 2021, which led to the implementation of a new working time policy in early February 2022. At the same time, it developed the conventional framework for teleworking. An approach combining flexibility and responsibility has been adopted, based on voluntary compliance, reversibility, the right to disconnect and data protection.



The relocation to Kadence has enabled new forms of work organisation Conducive to breaking down silos, transparency and collective practices, the spaces are adapted to the requirement of a good quality of life at work.

INTRANET Sharing an internal vision

A new intranet site was launched to make it the heart of Syctom's internal communication. It has been designed as a more participatory collaborative platform, enriched with new features. It responds to the desire to provide agents with an ergonomic tool for finding and exchanging information that provides them with a shared vision of Syctom's challenges. Syctom initiated a participatory approach with all employees to better articulate the improvement of working conditions and collective performance.

QUALITY OF LIFE AT WORK Professional satisfaction and collective

performance

After a year plagued by the pandemic and the resulting rapid change in work organisation, Syctom embarked on a participatory approach with all its employees to better structure the improvement of working conditions and collective performance. A diagnosis of the Quality of life at work was developed on the basis of a questionnaire to which 79% of agents responded. Overall, the degree of satisfaction was very positive. Workshops with volunteer agents were held in the last quarter of 2021 to define an action plan in favour of a sustainable quality of life at work.

An experimental system for reporting acts of violence, discrimination, harassment and sexist conduct was also set up in mid-2021. Syctom set itself the following objectives: collect reports in confidentiality, in a climate of trust, in complete neutrality, impartiality and independence; alert the competent authorities, if necessary; guide, protect and support victims; and deal with the reported facts.

By adopting a three-year professional equality plan in December 2021, to be implemented mainly from 2022, Syctom is proactively committed to professional equality issues. Adapted to the specificities of the syndicate, it defines four lines of action: assess, prevent and, if necessary, address pay gaps between women and men; ensure equal access of women and men to civil service employment, grades and positions; prevent and deal with discrimination, acts of violence, moral or sexual harassment as well as sexist conduct; promote the balance between professional activity and personal and family life.

A word from



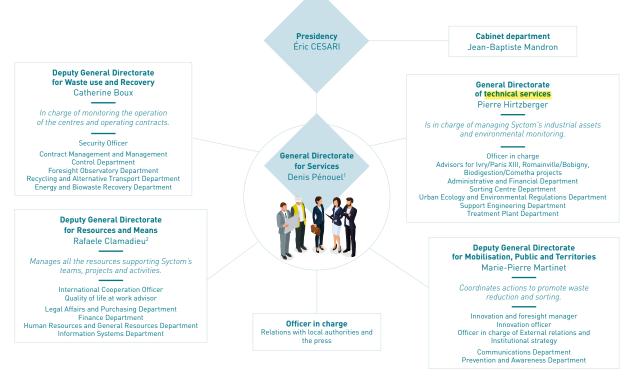
Florence Vialle Executive assistant to the Deputy General directorate of Resources and means at Syctom

"Through the Quality of life at work approach, initiated in 2021 in the particular context of the pandemic and the relocation to modern spaces, Syctom initiated a reflection on the relationship to work, as part of a public service objective of quality by fostering collective performance and work-life balance for each and every one. The agents paid special attention to the meaning of the work, with shared objectives and perspectives that give direction to their daily activities. The collective reflections within the framework of the "Horizon 2050" strategic project, launched in 2021, will echo this".

Internal organisation

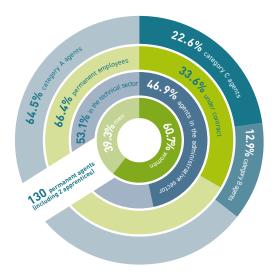
A PERFORMANCE-DRIVEN ORGANISATION

Syctom employs 130 permanent technical and administrative agents, with a wide range of skills.



Since October 2021, after the retirement of Martial Lorenzo.
 Since March 2022, following the departure of Laurent Gonzalez

SYCTOM'S SOCIAL REPORT AS AT 31 DECEMBER 2021



79 women

59% in the administrative sector

41% in the technical sector

51 men

71% in the technical sector

29% in the administrative sector



44 years Average age (*référence* 2020) Publication Director Éric Cesari Chief Editors Denis Penouel, Jean-Baptiste Mandron Communication director Véronique Menseau Coordination Solène Patron Photo credits © Syctom / Black Euphoria, Florent Aceto, Franck

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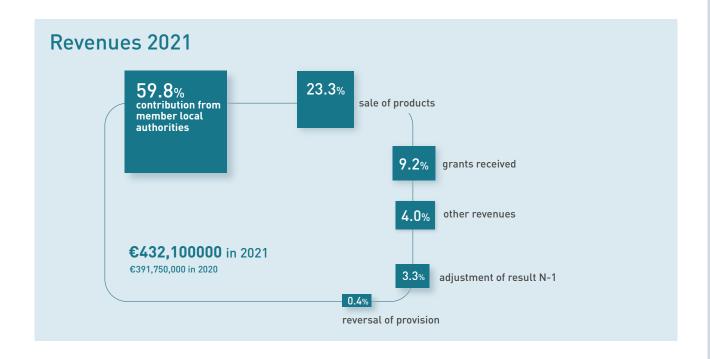
A NO FINANCIAL

REPORT





OPERATIONS



A FEE ON THE RISE TO BALANCE THE BUDGET

The fee for member local authorities increased while a strong incentive pricing was maintained to promote the development of sorting and separate collection of flows intended for material recovery. Population share: $6 \notin$ /person

Tonnage share:

• Household waste and bulky waste: 100 €/t

• Selective collection of packaging and paper 16 €/t The difference in the price for HW/BW was maintained to retain its incentive nature.

- Biowaste: 5€/t
- Selective collection anomalies: 120 €/t

Creation of a new price for sorting rejects in order to strengthen the incentive for efficient sorting habits.

USE OF THE FEES



CHANGES IN THE FEE AMOUNT FOR HOUSEHOLD WASTE AND BULKY WASTE

Calculated pro rata from the quantity of waste brought to Syctom and from the population of each territory.



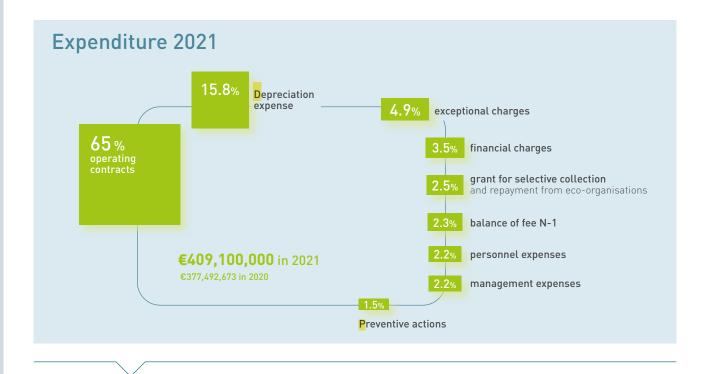
FEES AND GRANTS PAID REVENUE STRUCTURE

Income from fees stood at **€258.5 million** and grants paid to members amounted to **€10.4 million**. Fees rose by

10.4% following the price increase. In 2021, the fees charged from member local authorities accounted for **59.3%** of the operating revenues, followed by the sale of products **(23.1%)** and grants from eco-organisations **(9.1%)**.

SALE OF PRODUCTS AND SUPPORT FROM ECO-ORGANISATIONS The sale of products stood at €100.6 million,

recording an increase of 23.3%. This increase is explained by the increase in material recovery, which multiplied overall 1.4 times due to an increase in tonnages and above all by a rise in buy-back prices in each of the channels. The stable revenue from the sale of steam and the slight increase in the sale of electricity made it possible to consolidate this trend. Support paid by eco-organisations and grants increased slightly and stood at €39.7 million. Indeed, Citeo's grants for sorting packaging increased due to the increase in the incineration rate, which determines energy recovery. Grants from Éco-mobilier also rose following the increase in tonnage. These increases made it possible to offset the reduction in grants for energy recovery (in scale F) and grants from Citeo for newspapers/ reviews/magazines and wholesale stores due to the drop in tonnages in these two channels.



OPERATING COSTS UP SLIGHTLY

€**266.1** MILLION

Direct operating expenses stood at €266.1 million and continued to be the main expense item (65.0%). They rose due to the increase in the general tax on polluting activities (TGAP) and, to a lesser extent, due to the upturn in tonnages after the health crisis.





Depreciation charges amounted to €64.7 million. They increased by 4.5% following the delivery of the sorting centre in Paris XVII and the start of its depreciation from 2021.

With the recovery of the 2020 investment surplus (\notin 49.5 million), self-financing stood at \notin 114.2 million for 2021. Continued borrowing in 2021, to the tune of \notin 130 million (compared to \notin 155 million in 2020), was also used to finance equipment costs. The main source of finance continued to be borrowing, accounting for 43.1% of all investment revenues.





Payroll increased by 5.0% and represented 2.2% of all operating expenses. In 2021, Syctom's workforce included 130 permanent agents.



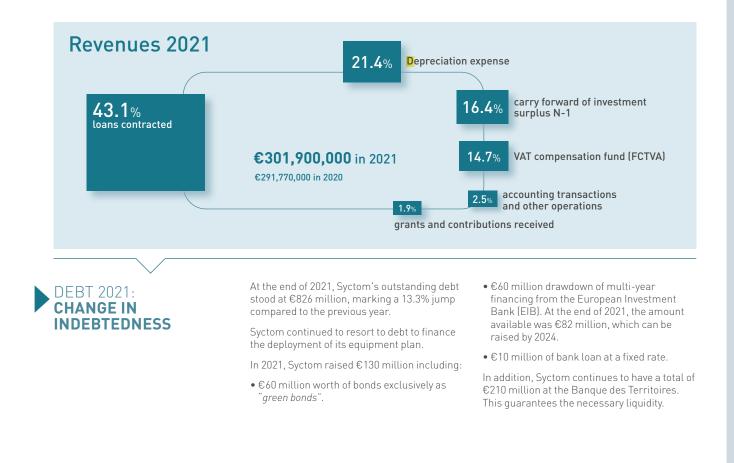


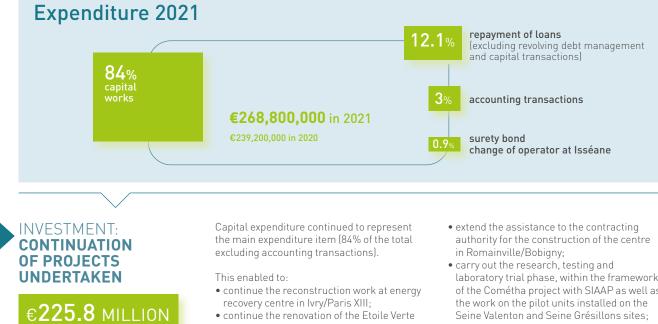
The amount earmarked for the prevention programme $({ { ({ { ({ 5.9 million) increased by 12.7% due to the resumption of door-to-door awareness-raising initiatives by Syctom's teams of eco-facilitators. It also included the continuation of domestic composting initiatives and the payment of grants.$

In all pages of the technical and financial report, the data has been rounded off for the sake of clarity, which explains possible, negligible discrepancies with the totals shown.



INVESTMENT





recovery centre in Ivry/Paris XIII; • continue the renovation of the Etoile Verte centre in Saint-Ouen-sur-Seine;

- continue the works to improve and bring facilities into conformity with the extension of sorting instructions, particularly in the Nanterre centre;
- laboratory trial phase, within the framework of the Cométha project with SIAAP as well as the work on the pilot units installed on the Seine Valenton and Seine Grésillons sites;
- pay grants as part of the prevention plan for setting up waste reception centres and recovery centres and purchasing sorting tables in schools and equipment to fight against food waste.

Investment programme by site

WORKS RELATED TO **EXISTING FACILITIES** OR TO **NEW PROJECTS**

in €M incl. tax

SITES AND NATURE OF WORKS	IMPLEMENTATION PERIOD	WORKS FINANCED IN 2021
IVRY/PARIS XIII	2007-2027	129.7
ÉTOILE VERTE AT SAINT-OUEN-SUR-SEINE	2012-2025	46.9
CONTINUOUS IMPROVEMENT AND ADAPTATION OF CENTRES TO THE EXTENSION OF SORTING INSTRUCTIONS		38.9
Isséane at Issy-les-Moulineaux Ivry / Paris XIII L'Étoile Verte at Saint-Ouen-sur-Seine Paris XVII Nanterre Romainville Sevran Multi-sites		23.5 6.9 5.3 2.0 0.7 0.2 0.2 0.2
OTHER PROJECTS (COMÉTHA WITH SIAAP, BIODIGESTION WITH SIGEIF)		7.1
OTHER CAPITAL EXPENDITURE		1.7
SUPPORT PLAN FOR WASTE PREVENTION AND SORTING OPERATIONS		1.4
GRAND TOTAL		225.8

ANNUAL REPORT ON THE PRICE AND QUALITY OF THE PUBLIC WASTE DISPOSAL SERVICE

Pursuant to Decree No. 2015-1827 of 30 December 2015 laying down various provisions for adaptation and simplification in the field of waste prevention and management.

This document will be submitted for vote to the Syctom Committee of representatives, the metropolitan agency for household waste, during its meeting on 24 June 2022.

TREATMENT OF TONNAGES

SYCTOM TREATMENT UNITS

AND TONNAGE TREATED

in tonnes 3 INCINERATION			
CENTRES WITH ENERGY RECOVERY	AUTHORISED CAPACITY	TECHNICAL CAPACITY	QUANTITIES INCINERATED
ISSÉANE	510,000	520,000	521,650
IVRY / PARIS XIII	730,000	710,000	709,713
ÉTOILE VERTE	650,000	600,000	509,661
TOTAL			1,741,024
6 SORTING CENTRES			QUANTITIES RECEIVED
CENTRES ISSÉANE	30,000*	17,000	
	30,000* 65,000	17,000	RECEIVED
CENTRES ISSÉANE (operation interrupted mid-2021) NANTERRE (recommissioned in			RECEIVED
CENTRES ISSÉANE (operation interrupted mid-2021) NANTERRE (recommissioned in November 2021, after modernisation)	65,000	55,000	RECEIVED 11,190 15,008
CENTRES ISSÉANE (operation interrupted mid-2021) NANTERRE (recommissioned in November 2021, after modernisation) PARIS XV	65,000 32,200	55,000 31,500	RECEIVED 11,190 15,008 33,626
CENTRES ISSÉANE (operation interrupted mid-2021) NANTERRE (recommissioned in November 2021, after modernisation) PARIS XV PARIS XVII	65,000 32,200 45,000	55,000 31,500 45,000	RECEIVED 11,190 15,008 33,626 43,820

*including 7,500 t of transfer authorised

QUANTITIES RECEIVED
14,817
15,583
15,787
6,212
540
2,430
55,369

EXTERNAL UNITS USED BY

SYCTOM AND TONNAGE TREATED *in tonnes*

QUANTITIES
238
196
602
26
76
198
634
1,603
35
932
111
104
58
1,769
2,087
64
181
60
8,974

INCINERATION CENTRES	QUANTITIES INCINERATED
ARGENTEUIL (AZUR / SUEZ)	27,080
CARRIÈRES-SOUS-POISSY (SUEZ)	1,725
CARRIÈRES-SUR-SEINE (SITRU / SUEZ)	5,502
CRÉTEIL (SUEZ)	3,805
MASSY (SUEZ)	423
MONTHYON (VEOLIA)	244
OUARVILLE (SITREVA / SUEZ)	1,528
RUNGIS (RIVED)	2,552
SAINT-OUEN-L'AUMÔNE (VEOLIA)	1,244
SAINT-THIBAULT-DES-VIGNES (SIETREM / SUEZ)	33,147
SARCELLES (SIGIDURS)	1,681
VAUX-LE-PÉNIL (VEOLIA)	475
VILLEJUST (SIOM)	429
VILLERS-SAINT-PAUL (SUEZ)	517
TOTAL	80,352

0

SC* SORTING CENTRES	QUANTITIES RECEIVED
LE BLANC-MESNIL (PAPREC/SITA)	17,674
LIMEIL (SITA)	23,151
TOTAL	40,757
*SC: selective collection	

QUANTITIES RECEIVED (DIRECT **BW* SORTING AND** TRANSFER CENTRES CONTRIBUTIONS) BONNEUIL (TAÏS) 2,462 BUC (NICOLLIN) 12,381 CHÂTILLON (TAÏS) 6,375 GENNEVILLIERS (PAPREC) 4,899 GENNEVILLIERS (SUEZ) 34,035 GENNEVILLIERS (PAPREC) Construction BW: 27,645 GOURNAY 5,833 IVRY (CEMEX) 34,264 IVRY (CEMEX) Construction BW: 20,506 LA COURNEUVE (PAPREC) 47,803 LIMEIL (SUEZ) 580 NOISY (REVIVAL) 24,069 PANTIN (SUEZ) 30,179 TOTAL 251,030

*BW: bulky waste

INERT OR NON-HAZARDOUS	
WASTE STURAGE FACILITIES	QUANTITES
NHWSF BOUQUEVAL (REP)	22,754
NHWSF CLAYE-SOUILLY (REP)	96,189
OTHER NHWSF (PRIVATE CONTRACTS)	51,285
IWSF	6,684



OVERALL ANNUAL REPORT

NUMBER OF MUNICIPALITIES WITHIN SYCTOM'S SCOPE	85
NUMBER OF INHABITANTS WITHIN SYCTOM'S SCOPE	
Figures taken from the population census for 2019 with an estimated change for 2021	5,847,697
TONNAGES OF WASTE	
Household waste	1,741,113
Sweepings and non-compostable green waste	22,962
SELECTIVE COLLECTION (in tonnes))
Packaging and paper	214,702
Bulky waste	251,030
Waste reception centres	55,369
Food waste	9,009
Green waste	1,676
FEES (tonnage share)	
RHW and Bulky waste	100 €/t
Selective collection	16 €/t
Biowaste	. ≎ €/t
Sorting anomalies	120 €/t
Population share	6€/pers.

RECOVERY

	ENERGY AND MATERIALS	FROM
Electricity	(IN MWH)	173,870

Steam (IN MWH)	2,633,915
Hot water (IN MWH)	24,071
Bottom ash (IN TONNES)	288,778
Ferrous scrap (IN TONNES)	38,633
Non-ferrous scrap (in tonnes)	4,730

RECYCLING FROM SELECTIVE COLLECTION (SC)

Plastics, paper, cardboard, steel and 148,862 aluminium

RECYCLING OF BULK AND WASTE RECEPT	
Wood, scrap metal, large cardboard boxes	83,731
(excluding inert waste)	

-	ORGANIC COMPOST (IN TONNES)	8,428
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INCOME FROM ENERGY RECOVERY

in €M excl. tax

FROM INCINERATION

Sale of steam and electricity (Isséane and Ivry/Paris XIII)	45
Sale of steam and electricity (Étoile Verte at Saint-Ouen-sur-Seine)	22.3
TOTAL	68.3

FINANCIAL INDICATORS

Terms of operation of the disposal service entrusted to Sycte the metropolitan agency for household waste	om, Public contracts
Total annual amount of Syctom's waste treatment expenditu (total actual expenditure in the operating section – excluding provisions)	ere €409.1 million
Terms and conditions for financing the overall treatment service	Contribution from local authorities, Citeo aid for selective collection, sale of products
Terms and conditions for setting the special fee for the dispo of assimilated products	not applicable
Annual amount for main treatment services paid under contract (excluding major maintenance and repairs)	€207.5 million incl. tax
Total annual amount of investment and operating expenses (excluding capital transactions)	€670.8 million incl. tax
Income from access rights to treatment and storage centres authority is the contracting authority for assimilated waste	for which the local not applicable
Repayments for selective collection	Syctom grants €5 million Repayments for glass €0.2 million
Itemised amount of aid received from approved bodies	Citeo €34.1 million OCAD3E €0.1 million

INCOME FROM MATERIAL RECOVERY

in €M excl. tax

FROM SORTING OF SELE COLLECTION AND BULKY WASTE	
Newspapers/magazines	4.7
Plastics	3.1
Cardboard and recovered household packaging	8.4
Paper mix	1.4
Steel	0.5
Scrap iron and non-ferrous metals from BW	1.7
Glass	1.6
Wood	0
TOTAL	21.5

$\bigcap \bowtie$

FROM INCINERATION

Scrap iron	3.2
Non-ferrous scrap	1.6
TOTAL	4.8
TOTAL	28.3

TOTAL	28.

7-6	NHWSF	46,772
	(IN TONNES)	(EXCLUDING SORTING REJECTS)

INDEX OF REDUCTION

in the quantities of non-hazardous, non-inert waste admitted into storage facilities (including sorting rejects) Base 100 in 2010

56 51 43 43 31 31 48 48 35 **34** 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021

MEASURES TAKEN TO PREVENT OR REDUCE HARMFUL EFFECTS ON HUMAN HEALTH AND THE ENVIRONMENT

Éco-Mobilier

€5.5 million

Continuous improvement and safety at Syctom facilities

- Carry out work to secure the unloading function (separation islands) in the Isséane ERU.
- Launch work to reinforce fire protection in the sorting centre in Sevran as well as studies aimed at reinforcing fire protection in the HW pit at the Saint-Ouen-sur-Seine centre.
- Carry out audits of the fire safety systems of the L'Étoile Verte centres in Saint-Ouen-sur-Seine and Isséane.
- Carry out a cybersecurity audit at Isséane and in Issy-les-Moulineaux.

Control of emissions into the environment

- Continue the modernisation of the Etoile Verte energy recovery centre in Saint-Ouen-sur-Seine, including modification of the treatment of industrial effluents and flue gases.
- Resume service after work on the selective collection sorting centre in Nanterre equipped with an air handling system preventing any discharge without prior dust removal and deodorisation.
- Install a network of odour sensors for the identification of sources and measurement in the environment in the L'Étoile Verte centre in Saint-Ouen-sur-Seine.
- Install three ultra-precise sound level meters in partnership with Bruitparif in lvry/Paris XIII and Saint-Ouen-sur-Seine. These sound level meters, called "Jellyfish", take continuous 360° measurements of the sound level and identify the sources of noise.
- Continue the half-yearly campaigns (conducted by Syctom) to measure emissions from ERU stacks.

BREAKDOWN OF TONNAGE IN DIFFERENT TREATMENT CHANNELS IN 2021

SELECTIVE COLLECTIONS PACKAGING AND GRAPHIC PAPER

214,702 t

SELECTIVE COLLECTIONS BULKY WASTE AND WASTE RECEPTION CENTRES

306,399 t

Actual figures as of 17/05/2022

The tonnages of sorting rejects indicated correspond to the actual tonnages recorded by the sorting centre operators (unlike in previous years where the tonnages of sorting rejects were calculated from the difference between incoming tonnages and recovered tonnages). This new calculation method explains the slight difference between the sum of tonnages leaving the sorting centres and the sum of incoming tonnages.

Waste treated by Syctom 2,295,862 t SELECTIVE COLLECTIONS FOOD WASTE 9,009 t Total tonnage of household SELECTIVE COLLECTIONS PLANT WASTE (EXCLUDING CONTRIBUTION TO WASTE RECEPTION CENTRES) waste in Syctom's territory 1,676 t 2,418,790 t COLLECTIONS RESIDUAL HOUSEHOLD WASTE 1,764,075 t Glass 122,928 t

		MATERIAL RECOVERY	148,862 t
		UPSTREAM STOCK VARIATION	-224 t
		ENERGY RECOVERY (REJECTS)	56,513 t
		REJECTS IN NHWSF	2,273 t
SORTING CENTRES	212,081 t		
DOWNGRADED WASTE*	2,622 t	ENERGY RECOVERY (DOWNGRADED WASTE)	2,549 t
		DOWNGRADED WASTE IN NHWSF	73 t
		MATERIAL RECOVERY	153,987 t
		INCLUDING INERT WASTE (BACKFILL AND IWSF)	70,256 t
SORTING CENTRES	235,545 t	ENERGY RECOVERY (WOOD FUEL)	15,019 t
OOWNGRADED VASTE*	56,673 t		
		ENERGY RECOVERY (REJECTS AND DOWNGRADED WASTE)	19,915 t
		REJECTS AND DOWNGRADED WASTE IN NHWSF	117,813 t
			117,813 t
			117,813 t 8,063 t
ENTRES	8,972 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY	8,063 t
ENTRES IR DIGESTION		WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST)	
CENTRES OR DIGESTION DOWNGRADED	8,972 t 37 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION,	8,063 t 7,606 MWh
COMPOSTING CENTRES OR DIGESTION DOWNGRADED WASTE*		WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE	8,063 t 7,606 MWh
CENTRES DR DIGESTION DOWNGRADED		WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE	8,063 t 7,606 MWh
COMPOSTING COMPOSTING	37 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE WASTE AND REJECTS) ORGANIC RECOVERY	8,063 t 7,606 MWh ^D 486 t
CENTRES DR DIGESTION DOWNGRADED WASTE*	37 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE WASTE AND REJECTS) ORGANIC RECOVERY	8,063 t 7,606 MWh ^D 486 t
COMPOSTING COMPOSTING	37 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE WASTE AND REJECTS) ORGANIC RECOVERY (COMPOST)	8,063 t 7,606 MWh ^D 486 t 365 t
ENTRES R DIGESTION DOWNGRADED VASTE* COMPOSTING ENTRES	37 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE WASTE AND REJECTS) ORGANIC RECOVERY (COMPOST) BOTTOM ASH EVACUATED MATERIAL RECOVERY	8,063 t 7,606 MWh 9 486 t 365 t 288,778 t 43,363 t
ENTRES R DIGESTION OWNGRADED /ASTE* OMPOSTING ENTRES	37 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE WASTE AND REJECTS) ORGANIC RECOVERY (COMPOST) BOTTOM ASH EVACUATED MATERIAL RECOVERY STREAM SOLD (CPCU) STREAM SOLD (CPCU) STREAM (OTHER)	8,063 t 7,606 MWh 9 486 t 365 t 288,778 t 43,363 t 2,605,018 MWh
CENTRES DR DIGESTION	37 t 1,661 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE WASTE AND REJECTS) ORGANIC RECOVERY (COMPOST) BOTTOM ASH EVACUATED MATERIAL RECOVERY STREAM SOLD (CPCU)	8,063 t 7,606 MWh 9 486 t 365 t 288,778 t 43,363 t 2,605,018 MWh
COMPOSTING COMPOSTING	37 t	WASTE IN NHWSF ORGANIC RECOVERY (DIGESTATE AND/OR COMPOST) ENERGY RECOVERY (HEAT GENERATION, ELECTRICITY, BIOMETHANE) ENERGY RECOVERY (DOWNGRADE WASTE AND REJECTS) ORGANIC RECOVERY (COMPOST) BOTTOM ASH EVACUATED MATERIAL RECOVERY STREAM SOLD (CPCU) STREAM SOLD (CPCU) STREAM (OTHER)	8,063 t 7,606 MWh 9 486 t 365 t 288,778 t 43,363 t 2,605,018 MWh

MATERIAL RECOVERY

122,928 t



recovery.

All percentages are calculated including glass.

TREATMENT COSTS

Cost por wasto stroam		#	1-0				Ě
Cost per waste stream and treatment mode		INCINERATION	NHWSF	SELECTIVE COLLECTION**	BULKY WASTE	WASTE RECEPTION CENTRE	BIOWASTE***
Tonnage treated		1,812,901	119,348	211,508	277,129	55,242	3,784
Contracts and operating charges*	€M	164.4	14.0	55.2	39.3	10.5	0.5
VAT recovery	€M	-3.6	-0.3	-0.6	-0.4	-0.1	0.0
Depreciations/Financial expenses	€M	64.5	0.5	15.3	-	-	-
FULL COST OF TREATMENT	€M	225.3	14.1	69.9	38.8	10.4	0.5
Revenues from the sale of materials	€M	7.9	-	20.4	2.0	0.5	-
Grants from eco-organisations retained by Syctom			-	24.3	4.1	0.1	-
Other revenues (e.g. energy for incineration)€MTOTAL OWN REVENUES€MNET COST OF TREATMENT€M		66.2	-	2.8	-	0.1	-
		81.4	-	47.5	6.1	0.7	-
		143.9	14.1	22.4	32.7	9.8	0.5
		79 €/t	118 €/t	106 €/t	118 €/t	177 €/t	129 €/t
Grants/repayments by Syctom for the benefit of members	€M	3.1	-	4.8	-	-	-
Grants and material revenues received by Syctom on behalf of members	€M	-	-	4.7	-	-	-
NET COST OF THE GRANT POLICY	€M	3.1	-	0.2	-	-	-
		2 €/t	0€/t	1 €/t	0€/t	0 €/t	0€/t
NET OVERALL COST (treatment and grant)	€M	147.0	14.1	22.6	32.7	9.8	0.5
		81 €/t	118 €/t	107 €/t	118 €/t	177 €/t	129 €/t

* treatment services, transfer services, taxes, major maintenance and repair, rents, treatment of rejects and downgraded waste

2021

** excluding tonnages received from SITRU.

*** excluding tonnages and experimentation costs.

Cost of all streams combined (HW/SC/BW/waste	TOTAL COST	TOTAL TONNAGE TREATED* 2,295,862	POPULATION INSEE 2018
reception centre)	€M	€/tonne	€/pers.
Full cost*	343.5	150	59
Total own revenues	135.7	59	23
NET COST OF TREATMENT	207.8	90	36
NET COST OF THE GRANT POLICY	3.3	1	1
+ Structural charges	20.5	9	4
+ Prevention / Experimentation	8.0	3	1
NET OVERALL COST	239.5	104	41

* excluding double counts such as certain sorting rejects that come under the incineration and SC sorting or BW sorting columns

Notable factors explaining the changes seen in 2021

2021

- The cost of treating selective collection (SC) fell to €106/t despite the significant increase in depreciation expenses. Indeed, Syctom has recovered all of the sorting capacity of its sites with the completion of the work on the sorting centre in Nanterre and is experiencing a sharp increase in its revenue (+€15 million) mainly boosted by the rise in the prices of raw and secondary materials.
- The net cost of treating bulky waste (BW) (€118/t) continued its upward trend (+€8/t). The very sharp increase in expenditure (+€20/t) due to the rise in prices on new markets and the increased use of transfers was not offset by the increase in receipts, however significant (+€12/t, i.e. +138%).
- The net cost of treating RHW by incineration increased by ${\rm {\ensuremath{\in}}} 4/t$ mainly due to the increase in TGAP.
- The cost of treatment at the recycling centre increased by €2.5 million due to the continued sharp rise in deposits in the waste reception centres (+30%). The cost per tonne increased only moderately (+€5/t).
- The overall net cost of €239 million increased by almost €12 million mainly due to the increase in tonnages to be treated (+90,000 tonnes) and the rise in the TGAP.
 The net cost of treating one tonne of waste for all streams combined was stable at €104/t and the cost per inhabitant is €41/pers.

2019

2020

	4 11	-				Ě
	INCINERATION	NHWSF	SELECTIVE COLLECTION**	BULKY WASTE	WASTE RECEPTION CENTRE	BIOWASTE***
	1,807,030	112,189	177,290	254,718	42,106	2,863
€M	146.4	12.2	50.9	31.2	7.6	0.4
€M	-2.9	-0.3	-3.5	-0.7	-0.1	0.0
€M	64.3	0.9	11.0	-	-	-
€M	207.8	12.8	58.4	30.5	7.5	0.4
€M	4.3	-	6.8	0.8	0.1	-
€M	7.4	-	22.8	1.8	0.1	-
€M	62.8	-	3.1	-	0.1	-
€M	74.5	-	32.7	2.6	0.3	-
€M	133.3	12.8	25.7	27.9	7.2	0.4
	74€/t	114€/t	145€/t	110 €/t	172€/t	125€/t
€M	4.1	0.1	5.7	1.8	-	0.1
€M	-	-	5.2	1.8	-	-
€M	4.1	0.1	0.5	-	-	0.1
	2€/t	1€/t	3€/t	0€/t	0€/t	30 €/t
€M	137.4	12.9	26.2	27.9	7.2	0.4
	76€/t	115€/t	148 €/t	110 <i>€/</i> t	172 €/t	155 €/t

* treatment services, transfer services, taxes, major maintenance and repair, rents, treatment of rejects and downgraded waste ** excluding tonnages received from SITRU at the Nanterre sorting centre. *** excluding tonnages and experimentation costs.

2019

2020

TOTAL COST	TOTAL TONNAGE TREATED*	POPULATION INSEE 2017	TOTAL COST	TOTAL TONNAGE TREATED*	POPULAT INSEE 20
	2,205,134	5,817,305		2,339,731	5,799,5
€M	€/tonne	€/pers.	€M	€/tonne	€/pers
307.8	140	53	316.2	135	55
110.0	50	19	107.8	46	19
197.7	90	34	208.4	89	36
4.7	2	1	4.7	2	1
18.7	9	3	18.1	8	3
6.8	3	1	12.7	5	2
228.0	103	39	243.9	104	42

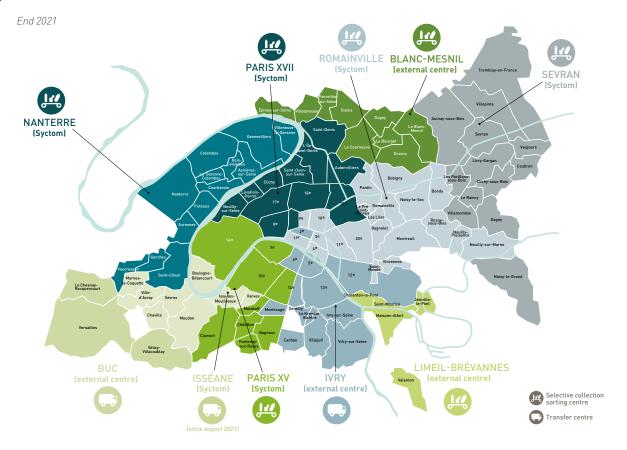
* excluding double counts such as certain sorting rejects that come under the incineration and SC sorting or BW sorting columns.

Some information on methodology

- The policy of grants to local authorities (remoteness, hosting, Citeo repayment, Éco-mobilier repayment) is highlighted because it cannot be assimilated to conventional treatment expenditure.
- The cost calculation is the result of an analysis with restatements so that the data presented reveal the most reliable trends possible. It is therefore not the exact reflection of the accounting.
- For example, some points in the previous financial year report presented are an estimation that is as close as possible to reality. From one year to the next, the final data may be substituted for the estimated values.

SELECTIVE COLLECTION

CATCHMENT AREAS



Some waste goes through transfer centres in line with the rationale of proximity.

BREAKDOWN OF TONNAGES 2021



OPERATORS

SYCTOM SORTING CENTRES

In addition to the selective collection streams from its member local authorities, Syctom also treats those provided by 12 SITRU municipalities as well as by SIGIDURS.

ISSÉANE (operation interrupted mid-2021)	11,191	10,847	7,438	S
PARIS XV	33,626	33,601	25,284	X
PARIS XVII	43,820	43,325	32,621	C
ROMAINVILLE	59,483	58,733	44,322	٧
NANTERRE (recommissioned in November 2021)	15,008	15,008	9,986	T
SEVRAN	20,489	20,423	12,491	Т
SUB-TOTAL SYCTOM'S SORTING CENTRES	183,616	181,935	132,142	
EXTERNAL SORTING CENTRES				
SUB-TOTAL EXTERNAL SORTING CENTRES	40,757	39,816	24,177	
GRAND TOTAL	224,373	221,751	156,320	
INCLUDING CONTRIBUTIONS FROM SYCTOM MEMBERS	214,654	212,032	148,862	

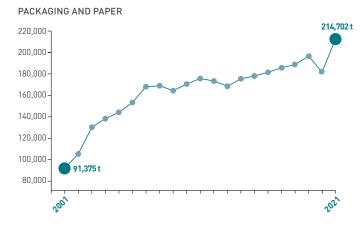
SUEZ XVÉO (VEOLIA) CNIM then SUEZ RV VALORAM (URBASER) TRIVALO 92 (PAPREC GROUP) TRINÉO (VEOLIA)

RECYCLABLE MATERIALS RECOVERY CHANNELS

in tonnes

		SYCTOM TONNAGES 2021	PURCHASERS	DESTINATION	FUTURE	TRANSPORT
	NEWSPAPERS JOURNALS MAGAZINES	29,978	UPM (for Paris XVII only)	UPM paper mill (Hurt, Germany)	Newspaper	Road
	MAGAZINES		Norske Skog	Norske Skog paper mill (Golbey, 88)		
	Brown cardboard recyclable household packaging (EMR) + paperboard packaging	76,160	SUEZ RV	Mainly paper mills: Saica (Nogent-sur- Seine (10) and Venizel (02)) and Ds-Smith (Saint-Étienne-du-Rouvray (76)) + Gondardennes (Wardrecques)	Brown cardboard, corrugated base paper	About 30% of river transport (barge); the rest by road
	PAPER MIX	16,177	PAPREC GROUP	Mainly, Saica (Nogent-sur-Seine (10) and Venizel (02)) and, on the margin, in Spain	Corrugated or flat cardboard	Road (river transport started in late 2021 / early 2022)
	FIBROUS 1.04	479	CDIF	 Palm in Descartes (37) DS Smith in Alsace SAICA in Nogent sur Seine (10) or in Saint Vallier 	Corrugated or flat cardboard	Road
	LIGHT FOOD PACKAGING (LFP)	1,748	REVIPAC	SCA Tissue France (Hondouville, 27) Nova Tissue - Lucart (Laval sur Vologne, (88) and Italy)	Toilet and household paper	Road
ÔÔô	PACKAGING IN RIGID PLASTIC SUCH AS PET	10,894	SUEZ RV	Mainly in France (Limay (78), Colmar (60), Bayonne (64)) Occasionally, close to Europe (Italy, Lithuania)	Raw material regenerated in the form of granules used to make bottles (rPET) or fibres (textile)	River transport (barges) for approx. 70% of the streams after consolidation of streams in Gennevilliers for Limay and road transport
	PACKAGING IN RIGID PLASTIC SUCH AS HPPE OR PP	220	PAPREC GROUP	MPB factory (Châlon-sur-Saône (71)) Vogt Plastic and Replano factories (Germany)	Raw material regenerated in the form of granules that	Dood
	PACKAGING IN RIGID PLASTIC SUCH AS HDPE OR PP OR PS	5,492	PAPREC GROUP	Occasionally other European countries (Switzerland, Italy, Slovenia, etc.) and Turkey between summer 2020 and May 2021	can be used to make various plastic products (sewer pipes, watering cans, etc.)	Road
	LDPE FILMS AND COVERS	2,650	SUEZ RV	Mostly, Machaon factory (Châlons-en- Champagne (51)) Occasionally Belgium and Switzerland	Raw material regenerated in the form of granules used to make plastic films	Road
	ALUMINIUM FROM SELECTIVE COLLECTION	1,024	REGEAL AFFIMET / SUEZ RV	Factory: Regeal-Affimet in Compiègne (60) for large aluminium Alunova factory Germany (for small aluminium streams)	Aluminium alloys	Road
	ALUMINIUM FROM BOTTOM ASH (syctom factories only)	4,730	GALL00	GALLOO factory in Halluin (Belgium)	Aluminium alloys	Road
	STEEL FROM SELECTIVE COLLECTION	3,482	ARCELOR MITTAL	Arcelor factory in Dunkerque 59		
	STEEL FROM BOTTOM ASH (syctom factories only)	38,633	GALL00	Taken over by Galloo Idf in Bonneuil- sur-Marne (94) for large scrap metal, taken over by Galloo Metal or other subcontractors (Belgium and 59) for small scrap metal	Steel	Road

CHANGES IN SELECTIVE COLLECTION



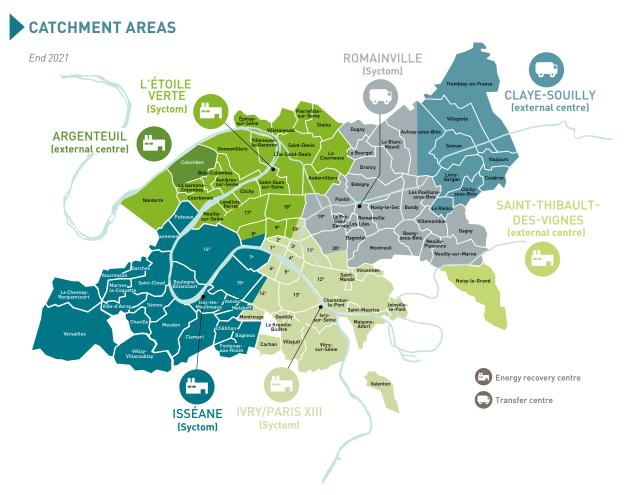
	%	TONNES
2020-2021	+18.58%	+33,637 t
2001-2021	+134.97%	+123,327 t

After the fall in tonnage observed in 2020 due to the health crisis, the year 2021 marked a clear recovery in the selective collection of packaging and paper. This increase resulted from the generalisation of the extension of sorting instructions in Syctom's territory.

At the same time, however, there was a deterioration in the quality of incoming tonnages.

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RESIDUAL HOUSEHOLD WASTE



OPTIMISING THE SUPPLY TO ENERGY RECOVERY CENTRES To optimise the supply and energy production of its ERUs, Syctom launched an urban logistics project in 2019 for a more efficient transfer of RHW. During the first phase of the project, it acquired a flow regulation tool: during periods of high activity in the centres, a part of the waste is directed to an external transfer centre, then redirected to Syctom's ERUs. Household waste baling equipment was also installed in 2019 on the Routière Est Parisien (REP) site in Claye-Souilly. This equipment is used to create a buffer stock to optimise the supply to Syctom's energy recovery centres.

BREAKDOWN OF TONNAGES 2021

DILLARDOWN	TONNAOLS	2021	RECO	VERY		
4			4		Ferrous and	
INCINERATION UNITS	TONNAGES INCINERATED	Steam sold (IN MWH)	Electricity sold (IN MWH)	Bottom ash (IN TONNES)	non-ferrous scrap (IN TONNES)	OPERATORS
ISSÉANE	521,650	699,496	75,127	81,085	13,311	ISSY URBASER ENERGIE
IVRY / PARIS XIII	709,713	962,001	78,895	108,348	18,148	IP13 (SUEZ)
ÉTOILE VERTE	509,661	943,521	2,645	83,702	10,853	TIRU (Paprec Energies)
TOTAL SYCTOM CENTRES*	1,741,024	2,605,018	156,667	273,135	42,313	
TOTAL EXTERNAL CENTRES**	80,352	28,897	17,203	15,642	1,050	
TOTAL	1,821,376	2,633,915	173,870	288,778	43,363	

* This tonnage includes actually incinerated waste, excluding pit-level variations in Syctom's HWIPs. ** For the external centres, the indicated tonnage corresponds to the tonnage incinerated on behalf of Syctom (details on the tonnages treated in the external centres on page 6).

Control of air emissions from Syctom's incineration centres with energy recovery

	DAILY EMISSION LIMIT VALUES	IVRY / P.	ARIS XIII	_	ÉTOILE VERT	-		ANE MOULINEAUX
NATURE OF EMISSIONS		Flue gas treatment line 1	Flue gas treatment line 2	Flue gas treatment line 1	Flue gas treatment line 2	Flue gas treatment line 3	Flue gas treatment line 1	Flue gas treatment line 2
Concentrations in mg/Nm ³ at 11% C	O_2 (annual average of re	gulatory spot cl	necks)					
Dust	10	3.9	3.8	6.0	0.4	0.6	0.4	0.4
Hydrochloric acid	10	1.4	0.6	1.0	1.7	1.8	3.7	3.5
Hydrofluoric acid	1	0.14	0.15	0.07	0.01	0.06	0.05	0.06
Sulphur dioxide	50	17	20	11.5	4.2	1.1	4.0	3.4
Nitrogen oxide	80 (70)*	40	55	45	34	31	33	32
Ammonia	10	0.26	0.23	0.24	0.51	0.21	0.36	1.77
Cadmium+thallium	0.05	0.002	0.002	0.002	0.0004	0.0001	0.000004	0.000004
Mercury	0.05	0.0006	0.0005	0.0047	0.0134	0.0052	0.0010	0.0037
Antimony + arsenic + lead + chrome + cobalt + copper + manganese + nickel + vanadium	0.50	0.06	0.04	0.05	0.02	0.02	0.002	0.002
Dioxins and furans (in ng iTEQ NATO/Nm³)**	0.10	0.068	0.045	0.028	0.051	0.003	0.006	0.003

*The Paris region plan for the protection of the atmosphere has set the maximum emission value at 80 mg/Nm³ (the threshold set by the European directive is 200 mg/Nm³). This threshold is reiterated in the authorisation order to operate in Ivry-Paris XIII and Saint-Ouen-sur-Seine. At Isséane, the operating permit issued by the Prefect of Hauts-de-Seine sets the threshold for the emission of nitrogen oxides at 70 mg/Nm³.

**ng/Nm³ = nanogram (billionth of a gram) per cubic metre.

In addition to the mandatory checks carried out by the operators of the centres, there are at least two checks ordered by Syctom from independent accredited bodies. In 2021, 4 checks were carried out in the centres in Ivry/Paris XIII and L'Étoile Verte in Saint-Ouen-sur-Seine; 6 in the Isséane centre in Issy-les-Moulineaux.

Waste dumped in storage facilities

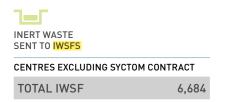
in tonnes

REFIOM PRODUCED BY HWIP

Ivry/Paris XIII	18,856
Isséane	6,421
L'Étoile Verte	5,882
TOTAL HWSF	31,159

NON-HAZARDOUS WASTE SENT TO NHWSFS

Household waste	46,772
Sorting rejects	120,086
TOTAL	166,858



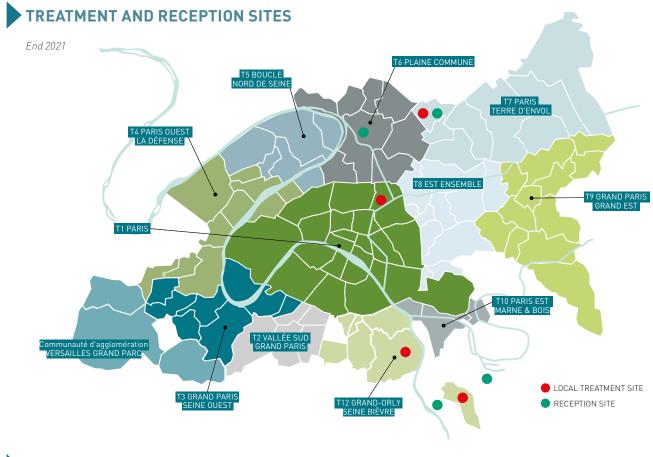
REFIOM: Residues from purification of flue gas from household waste incineration. HWSF: Hazardous waste storage facility. IWSF: Inert waste storage facility. NHWSF: Non-hazardous waste storage facility.

These tonnages correspond to waste that is actually sent to storage centres. They do not take stock variations into account.



BIOWASTE

FOOD WASTE



BREAKDOWN BY PRODUCER TYPE

INHABITANTS	COLLECTIVE CATERING	FAIRGROUND MARKETS
382,000 pers. Paris, Marnes-La-Coquette, Ville-d'Avray, Ivry-sur-Seine and Romainville	598 schools / kindergartens / primary schools 337 administrations / colleges / high schools	156 markets
18% of food waste treated	47% of waste treated	35% of waste treated
1,634 tonnes	4,182 tonnes	3,156 tonnes

RECEPTION CENTRES

TOTAL		8,972
VITRY BEEZ (local treatment)	VITRY-SUR-SEINE	60
DM COMPOST (local treatment)	VALENTON	65
LES ALCHIMISTES (local treatment)	STAINS	58
TRAVAIL ET VIE (local treatment)	Paris 19TH	35
SUEZ	LIMEIL BREVANNES	704
REF00D (Sarval)	SAINT-DENIS	932
VÉOLIA	VILLENEUVE-SAINT-GEORGES	1,480
MOULINOT	STAINS	5,638
OPERATOR	LOCATION	TONNAGE

TREATMENT OF FOOD WASTE

TREATMENT METHOD	TONNAGES	Breakdown
DIGESTION	8,634	96.2%
COMPOSTING	339	3.8%

GEOGRAPHICAL DISTRIBUTION OF TREATMENT CENTRES

LOCATIONS	TONNAGES	Breakdown
ÎLE-DE-FRANCE	4,723	52.6%
FRANCE, EXCLUDING ÎLE-DE-FRANCE REGION	4,251	47.4%

PRODUCTION TYPES

TOTAL DIGESTATE PRODUCTION (T)	7806
PRODUCTION OF STANDARDISED COMPOST	257
HEAT PRODUCTION (MWH)	348
ELECTRICITY PRODUCTION (MWH)	689
BIOMETHANE INJECTION (MWH)	6,569

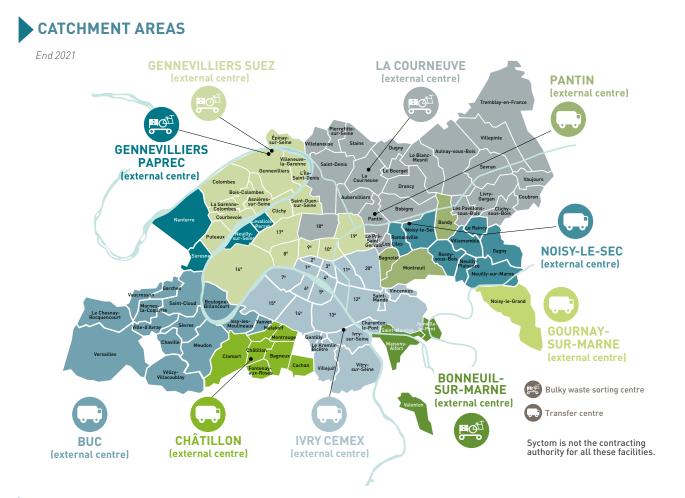
PLANT WASTE

BREAKDOWN OF TONNAGES

RECEPTION CENTRES	BONNEUIL- SUR-MARNE	GENNEVILLIERS	ERMENONVILLE	NANTERRE	BAILLY	
OPERATORS	TAIS	SUEZ	SUEZ	REVIVAL	BAILLY BIO YVELINES	TOTAL
	Transfer	Transfer	Composting	Transfer	Composting	
DIRECT CONTRIBUTIONS FROM LOCAL AUTHORITIES	662	952	62			1,676
SYCTOM'S WASTE RECEPTION CENTRES		595		60	939	1,593
TOTAL TONNAGES RECEIVED	662	1,547	62	60	939	3,269

DETAILED OPERATIONS REPORT

BULKY WASTE

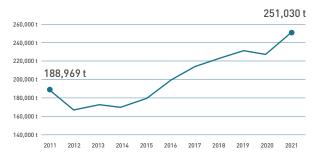


BULKY WASTE

SORTING OF BULKY WASTE	TONNAGES RECEIVED	TONNAGES RECOVERED (INCLUDING INERT)
CONTRIBUTION OF LOCAL AUTHORITIES	202,879	02.070
SYCTOM'S WASTE RECEPTION CENTRES	15,833	- 93,970

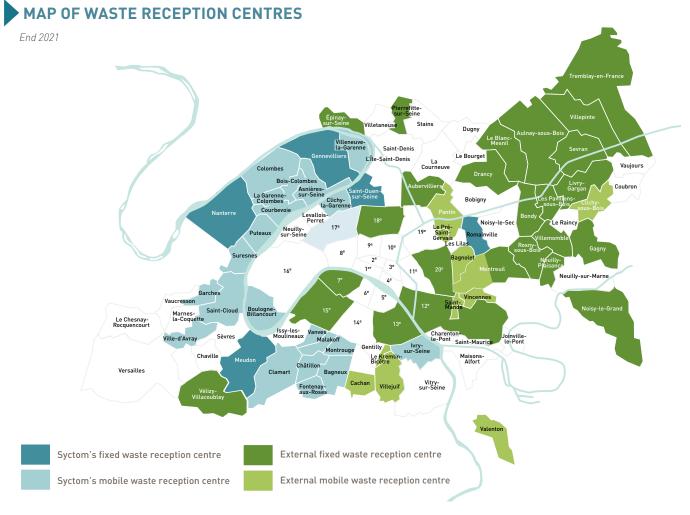
SORTING OF BULKY CONSTRUCTION WASTE	TONNAGES RECEIVED	TONNAGES RECOVERED (INCLUDING INERT)
CONTRIBUTION OF LOCAL AUTHORITIES	48,151	(5.507
SYCTOM'S WASTE RECEPTION CENTRES	25,356	- 65,507

CHANGES IN COLLECTIONS OF BULKY WASTE BROUGHT TO SYCTOM





WASTE RECEPTION CENTRES



More than 70 fixed and mobile waste reception centres are available to individuals in the territory, including 5 fixed and 25 mobile centres managed by Syctom. This closely connected network allows the selective deposit of waste that is not collected during selective collection.

TONNAGES 2021 Image: State reception centres Image: State recentres <thImage: State recentres</th> <thImage:

SUPPORT PLAN FOR LOCAL AUTHORITIES

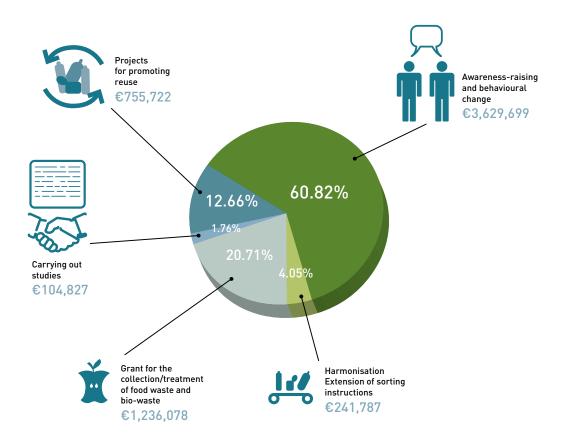
ALL GRANTS PROVIDED IN 2021

€5,968,113

Total amount of Syctom grants:

• €4,130,744 for direct grants for prevention and awareness

• €1,837,369 for local projects supported by Syctom



SYCTOM'S SUPPORT MISSIONS WITH ITS MEMBER LOCAL AUTHORITIES

MISSIONS	AMOUNTS (€)	тнеме	
Interventions of eco-facilitators	2,706,176	Awareness-raising and behavioural change	
Turnkey events	70,245	Awareness-raising and behavioural change	
Awareness tools for sorting habits	39,132	Awareness-raising and behavioural change	
Awareness tools for sorting food waste	25,701	Awareness-raising and behavioural change	
Composting equipment	608,837	Food waste/bio-waste	
Support for master composters	390,316	Food waste/bio-waste	
Training for composting site advisors	13,493	Food waste/bio-waste	
Visits and open day / Espace Infos Déchets	34,442	Awareness-raising and behavioural change	
Zero Waste Design Competition	242,401	Awareness-raising and behavioural change	

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THEMATIC BREAKDOWN OF LOCAL PROJECTS SUPPORTED BY SYCTOM

TERRITORIAL PUBLIC ESTABLISHMENT	BENEFICIARY	PROJECT	GRANTS (IN €)	THEME	
Boucle Nord de Seine	Boucle Nord de Seine	Raising children's awareness about food waste in Bois-Colombes	10,800	Awareness-raising and behavioural change	
Boucle Nord de Seine	Boucle Nord de Seine	Carrying out a waste deposit and preparatory study for installing a recycling centre in Colombes	24,000	Study	
Boucle Nord de Seine	Boucle Nord de Seine	Establishing temporary recycling centres and conducting workshops in Colombes over a weekend in order to raise awareness among users of the opening of the future recycling centre	17,520	Reuse	
Boucle Nord de Seine	Boucle Nord de Seine	Defining methods for the pre-collection and collection of office paper and recyclable packaging in the municipality of Asnières-sur-Seine	32,000	Study	
Boucle Nord de Seine	Association La Fabrique A	Creating a recycling centre in the commune of Colombes	178,000	Reuse	
Est Ensemble	Association Graine	Raising awareness and supporting 9 primary schools to fight against food waste and promote better nutrition	14,720	Awareness-raising and behavioural change	
Est Ensemble	Association La Collecterie	Global overhaul of the awareness campaign on reuse through physical and digital communication	25,000	Awareness-raising and behavioural change	
Est Ensemble	Association La Facto	Setting up a permanent office and conducting DIY and reuse workshops	25,000	Awareness-raising and behavioural change	
Est Ensemble	Association La Collecterie	Project for investing in materials and equipment for developing the local activities of the association	11,419	Reuse	
Est Ensemble	Association Le Sens de l'Humus	Zero waste in the garden: setting up workshops in the Pouplier garden to promote sustainable gardening	25,000	Awareness-raising and behavioural change	
Est Ensemble	Est Ensemble	Supporting the installation and operation of a composting structure in the municipality of Montreuil	19,936	Food waste/bio-waste	
Est Ensemble	Association La Sauge	Ensuring the sustainability and durability of the "De la Graine à l'assiette" [From Seed to Plate] educational programme developed by the association	40,000	Awareness-raising and behavioural change	
Est Ensemble	Seine-Saint-Denis Tourisme	Organising the "Summer of the Canal 2021" event to publicise the initiatives undertaken by the territory of Seine-Saint-Denis on the issue of waste	27,500	Awareness-raising and behavioural change	
Est Ensemble	Association Le Sens de l'Humus	Implementing the "Eating well means not wasting" approach!" which will offer workshops on the fight against food waste and on anti-waste cooking	13,375	Awareness-raising and behavioural change	
Est Ensemble	Est Ensemble	Study to optimise the public waste prevention and management service in the territory	10,000	Study	
Est Ensemble	Est Ensemble	Organising highlights during the SERD 2021	26,625	Awareness-raising and behavioural change	
Est Ensemble	Association La Grande Ourcq	Implementing an awareness programme for the reuse of textiles and wood by organising workshops on sewing and small manual work	12,500	Awareness-raising and behavioural change	
Est Ensemble	Est Ensemble	Audit of the individual composting device	14,827	Study	
Grand Orly Seine Bièvre	Association Rejoué	Establishing a territorial circular economy loop for toys	40,000	Reuse	
Grand Orly Seine Bièvre	Association La Rascasse	Purchasing a vehicle to develop new collection and awareness-raising actions	7,800	Reuse	
Grand Orly Seine Bièvre	Grand Orly Seine Bièvre	Setting up a reuse space in a mobile waste reception centre in the town of Vitry-sur-Seine	5,339	Reuse	
Grand Orly Seine Bièvre	Grand Orly Seine Bièvre	Purchasing food waste sorting tables for school canteens in the municipality of Vitry-sur-Seine	69,888	Food waste/bio-waste	
Grand Orly Seine Bièvre	Grand Orly Seine Bièvre	Deploying underground voluntary drop-off points for the collection of paper and packaging in the town of Vitry-sur-Seine	45,557	Harmonisation Extension of sorting instructions	
Grand Orly Seine Bièvre	Association Moissons Solidaires	Improving the collection of unsold food at the Vitry centre market	2,736	Food waste/bio-waste	
Grand Paris Grand Est	Association Les compagnons batisseurs	Conducting repair / reuse workshops for households living in poor housing conditions	25,000	Awareness-raising and behavioural change	
Grand Paris Grand Est	Association Les compagnons bâtisseurs	Conducting a study for the development of waste prevention and reuse at the association's DIY workshops	24,000	Study	

ACTIVITY REPORT 2021

TERRITORIAL PUBLIC ESTABLISHMENT	BENEFICIARY	PROJECT	GRANTS (IN €)	THEME
Grand Paris Seine Ouest	Association Séjour sportif solidaire	Creating a sports recycling centre in the municipality of Boulogne-Billancourt	20,520	Reuse
Grand Paris Seine Ouest	Association Séjour sportif solidaire	Creating a sports recycling centre in Boulogne-Billan- court	100,000	Reuse
Grand Paris Seine Ouest	Association La Refile	Organising workshops in 2022 to raise awareness of the reuse of textiles	25,591	Awareness-raising and behavioural change
Grand Paris Seine Ouest	Association Co-énergie	Proposing educational workshops on the environment and sustainable development for schools and leisure centres in the territory	11,320	Awareness-raising and behavioural change
Paris Est Marne & Bois	Paris Est Marne & Bois	Zero Waste Family Challenge in Charenton-le-Pont and Maisons-Alfort	25,000	Awareness-raising and behavioural change
Paris Est Marne & Bois	Town of Charenton-le-Pont	Deploying the municipal action plan for the prevention and sorting of waste (1st half of 2021)	14,120	Awareness-raising and behavioural change
Paris Ouest La Défense	Paris Ouest La Défense	Renewing selective collection bins in the municipality of Neuilly-sur-Seine	167,700	Harmonisation Extension of sorting instructions
Paris Ouest La Défense	Paris Ouest La Défense	Renewing selective collection bins in Saint-Cloud	28,530	Harmonisation Extension of sorting instructions
Paris Ouest La Défense	Paris Ouest La Défense	Purchasing sorting tables for school canteens and municipal restaurants in Suresnes - Phase 3	8,272	Food waste/bio-waste
Paris Ouest La Défense	Paris Ouest La Défense	Purchasing sorting tables for school canteens in Garches	7,334	Food waste/bio-waste
Paris Ouest La Défense	Town of Nanterre	Deploying sorting tables in all school canteens in Nanterre as part of a programme to combat food waste	74,897	Food waste/bio-waste
Paris Terres d'Envol	Paris Terres d'Envol	Educational activity in schools on waste prevention and sorting	25,000	Awareness-raising and behavioural change
Paris Terres d'Envol	Town of Aulnay-sous-Bois	Deploying food waste sorting in school canteens in the municipality - Phase 2	20,378	Food waste/bio-waste
Plaine Commune	Île-Saint-Denis	Food discovery workshops in schools in Île-Saint-Denis	3,600	Awareness-raising and behavioural change
Vallée Sud Grand Paris	Vallée Sud Grand Paris	Zero Waste Family Challenge 2020-2021 in the entire territory	3,628	Awareness-raising and behavioural change
Vallée Sud Grand Paris	Vallée Sud Grand Paris	Zero Waste Family Challenge 2021-2022 (4th edition) in the entire territory	18,009	Awareness-raising and behavioural change
Vallée Sud Grand Paris	Town of Clamart	Installing sorting tables in school canteens in the municipality of Clamart	19,990	Food waste/bio-waste
City of Paris	Association Emmaüs Habitat	Restructuring the sales room of the Communauté Emmaüs in Paris 18th	105,000	Reuse
City of Paris	Association Emmaüs Paris	Purchasing 4 electric vehicles for door-to-door collection	40,000	Reuse
City of Paris	Association La boutique sans argent	Setting up a store and developing activities in the form of indoor and outdoor workshops	19,200	Reuse
City of Paris	Association 1000 collectes	Developing a mobile recycling centre project	26,120	Reuse
City of Paris	Association 1000 collectes	Carrying out awareness-raising actions and events related to the deployment of the mobile recycling centre project	20,720	Awareness-raising and behavioural change
City of Paris	Association Reparvélo	Organising the "Bike Festival" in June 2021	25,000	Awareness-raising and behavioural change
City of Paris	Association La Ressourcerie créative	Activities and awareness of reuse	14,660	Awareness-raising and behavioural change
City of Paris	Association La Petite Rockette	Setting up a shop dedicated to second-hand textiles and an educational space linked to reuse	19,898	Reuse
City of Paris	Association Envie Trappes dans les Yvelines	Deployment by the association, in its premises in Paris 20th, of an awareness programme to encourage the reuse and recycling of small electrical and electronic appliances	32,000	Awareness-raising and behavioural change
City of Paris	Association Chaussettes Orphelines	Deployment of the "Pari Chaussettes" project to collect orphan socks	14,459	Harmonisation Extension of sorting instructions
City of Paris	Association La Petite Rockette	Deploying a reuse awareness programme for residents of Paris 14th	17,075	Awareness-raising and behavioural change
City of Paris	Association La Petite Rockette	Implementing a preserving collection of bulky waste and raising awareness among the residents of Paris 11th	2,400	Awareness-raising and behavioural change
City of Paris	City of Paris	Making a board game on the theme of waste sorting in Paris	13,500	Awareness-raising and behavioural change
City of Paris	Association Coup de Pousses	Creating an urban garden recycling centre	164,906	Reuse





86 rue Regnault | 75013 Paris | Tel. +33 (0)1 40 13 17 00 www.syctom-paris.fr

