

COMPANY DOSSIER

CORPORATE
DOCUMENTATION



V1_11/2013
MASIAS RECYCLING ©

ORIGINS AND DESCRIPTION

MASIAS GROUP

Masias recycling is part of the Masias business group, with vast experience in the fields of engineering and industrial production.

This family group started up in February 1941 in Sant Joan les Fonts.

Since the seventies the group has undergone significant expansion thanks to an increase in its range of products and to its activities as an exporter to Eastern Europe, North Africa and Latin America.

In accordance with its belief in technological development and quality, the Masias group, at the beginning of the eighties, strengthened its engineering department by promoting research, with the objective of improving the technology of its products, incorporating technologies from other sectors and widening its range of solutions and areas of activity.

It is from within this framework of technological development and diversification, and thanks to the capacity

of its R&D&I department, that the Masias Group created a new company in 1993 called Masias Recycling, in order to establish itself within the emerging sector of waste treatment.

MASIAS RECYCLING

Masias recycling is a multinational leader in waste treatment solutions. The company manufactures individual equipment, constructs treatment plants and other "turnkey" projects, and puts engineering, consultancy, assessment and maintenance services within the reach of its clients.

With over twenty years of experience in technological development of environmental management Masias Recycling is one of the most innovating companies within this emerging economic sector. The company offers

a wide range of products and services which provide its clients with complete value-added solutions.

Masias Recycling has a presence on the five continents, supplying equipment and services in Spain, Germany, Austria, Portugal, England, Brazil, China, Turkey, Australia, Greece, France, and Nigeria, among other countries. Thanks to our partnerships throughout the world Masias Recycling is driving business platforms which are providing advanced solutions technologically adapted to any point on the planet.

Since its beginnings Masias Recycling has opted for research and technological development. The company has an R+D department which is designing new solutions in order to continually improve the company's products and services.

Masias recycling has established a strategic plan to manage its move towards new products and markets, fight to strengthen its position of leadership and promote its internationalization.

EXPERIENCE

Masias Recycling has been at the birth and witnessed the evolution of the previously unexplored and complex environmental sector. Based on our vast experience we are the sum of each step we have made, big and small, and this has led us to become one of the national and international leaders in the engineering, design and manufacture of equipment and solutions for waste management and treatment.

- + 20 years
- + 5,000,000 tons treated in Masias Recycling facilities.
- + 80 plants set up throughout the world.
- + 3,100 pieces of our own equipment installed.
- + 2,350 maintenance assistance operations in 15 countries.



OUR MISSION

We offer our clients high quality products and services, which create brand loyalty through qualified labour and the satisfaction of our shareholders' expectations as we strive to maintain the sustainable growth of the organization.

OUR VISION

To be an international leader in the design, manufacture and supply of installations and equipment for solid waste treatment plants and in the provision of services for them, and in industrial assemblies and maintenance in general, by being the best option for clients due to the quality of our services.

OUR VALUES



Rigour and
professionalism



Working
as a team



Differentiation
and innovation

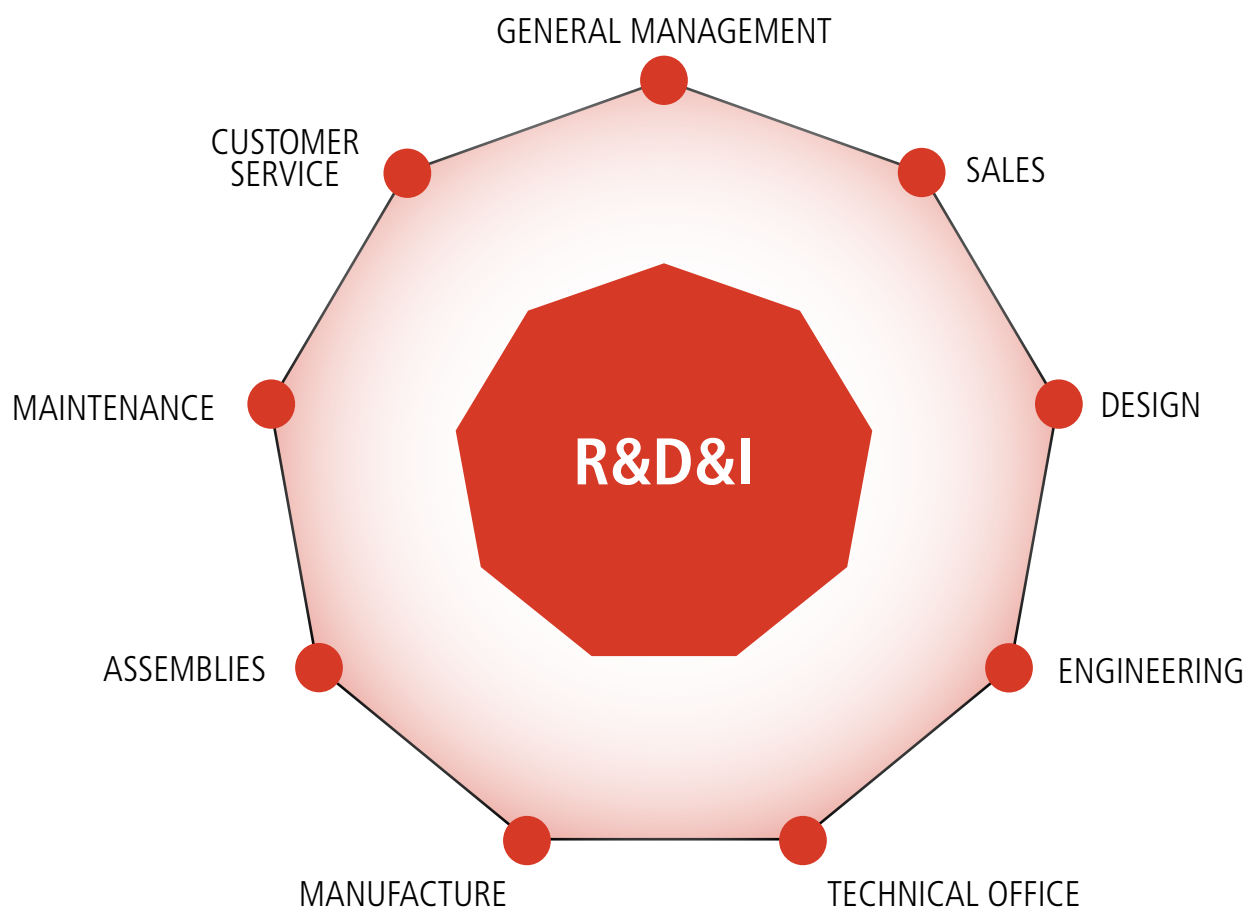


Client
orientation



Anticipation

COMPANY PHILOSOPHY



PLANT
ENGINEERING



KEY
MACHINES



SERVICES

SINGLE-SOURCE SUPPLIER

One of the reasons for the existence of Masias Recycling is that of including the improvements which come out of our backing of R&D&I in each of the areas making up the company, from the technical office to the departments of design, production, engineering, assemblies, maintenance, sales, customer service and general management.

This allows Masias Recycling to be an integrated supplier of solutions from each of its business units and provide a suitable and tested response to any need that may arise.



PROFITABILITY

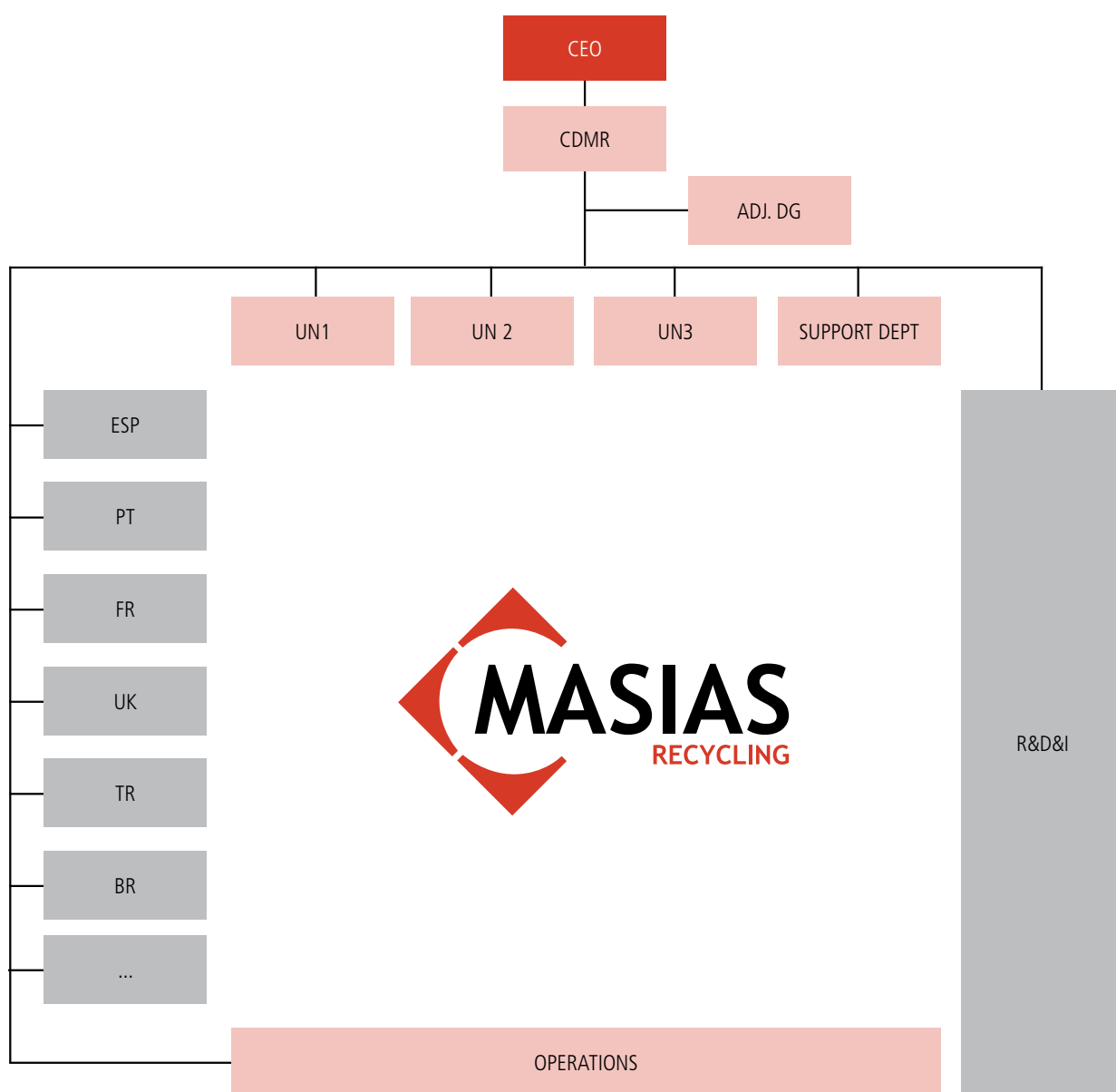
One of the most ambitious challenges taken up by the R&D&I department has been the development of green SRFs: an example of our concern for perfecting the waste treatment cycle with maximum reduction in environmental impact. With green SRFs we have managed to technologically close the waste management cycle as a part of the chain in an extremely profitable business.

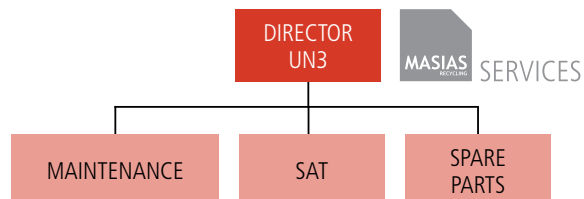
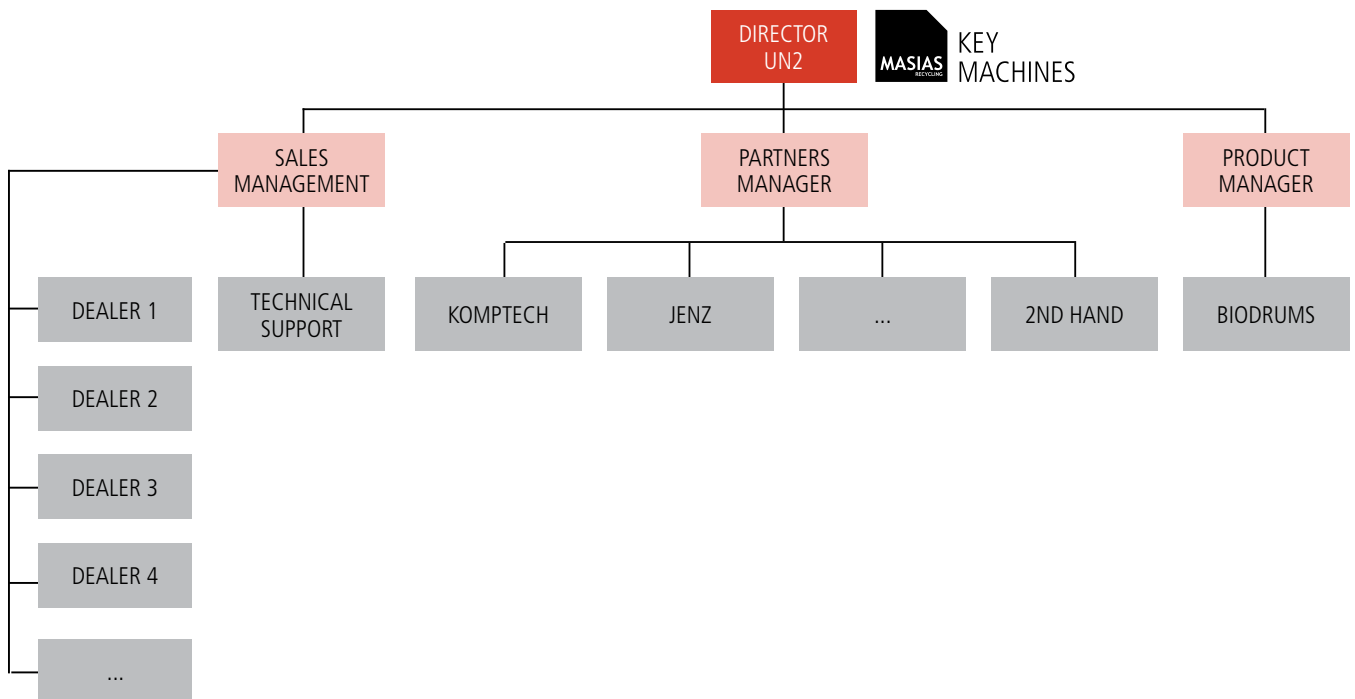
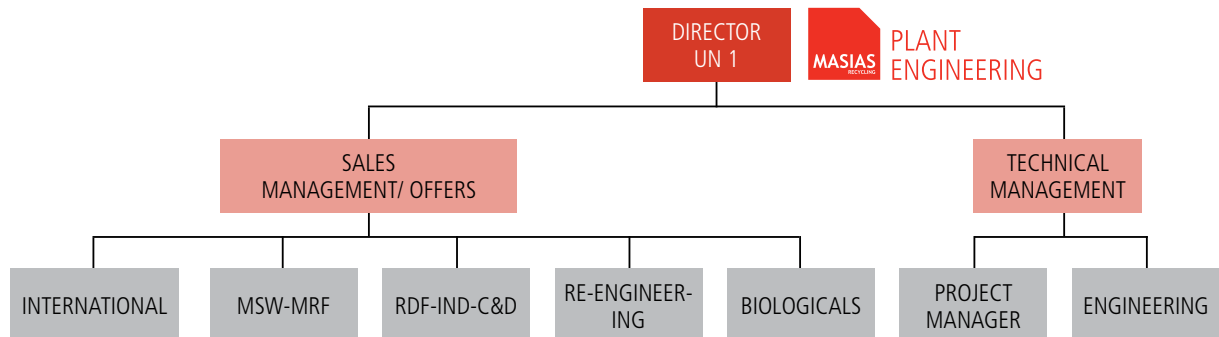
A good example of green SRFs can be seen in the installation of a process patented by Masias Recycling at the Resitejo plant in Portugal, where, from here, the process is being continually developed in order to reach excellence.

ORGANISATION

The Masias Recycling human team is the pillar of the company, with a workforce of 193.

Experience, rigour and professional qualification are the characteristic hallmarks of the Masias Recycling employee.





INFRASTRUCTURE

Masias Recycling is a multinational leader in the design, engineering, manufacture, assembly and maintenance of waste treatment equipment. Our mastery and wide knowledge of these five areas, which cover all the key stages in the value chain of waste management, makes us a completely integrated supplier, with international presence.

Our capacity for self-sufficiency when carrying out all manner of projects, from any stage in the cycle of waste treatment, guarantees that we are a trusted supplier in the network of partnerships we have established over the five continents.

Our knowledge of the various markets we operate in, together with our head-

quarters and facilities are key to our ability to demonstrate and design the best waste treatment solutions.

In this endeavour our high level of quality is the main factor which marks us out from the competition, and is our best ambassador in the countries where we are present.



OFFICES / FACILITIES



PARTNERS



ITALY



BULGARIA



GREECE



AUSTRALIA



TAIWAN



SOUTH KOREA



INFRASTRUCTURE

SANT JOAN LES FONTS



CELRÀ (GIRONA)



TECHNICAL OFFICE



SANT CUGAT - BARCELONA



PRODUCTION - CELRÀ



PRODUCTION - SANT JOAN



PRODUCTS

BU 1

The road towards the design, manufacture and installation of turnkey plants for solid waste management which Masias Recycling set out on over 20 years ago has allowed us to create all types of complete solutions in various parts of the world. Our engineering department, which includes qualified project designers and specialist technicians, works closely with our clients in order to offer the best solution required, both for new installations or the modernisation of existing plants, whilst always counting on the most recent contributions from our R&D&I department.



PLANT ENGINEERING

BU 2

The equipment, together with carefully designed engineering, is the key to our plants. We design, manufacture and distribute a large range of equipment made to achieve high performance levels adapted to each material and need. Our range includes sieve drums, ballistic separators, suction systems, bag openers and conveyor belts, together with mobile machinery.



KEY MACHINES

BU 3

To the manufacture of equipment and the supply of turnkey solid waste treatment plants we have to add the services Masias Recycling offers to its clients. We try to make quality a habit and a constant reference by trying to anticipate the needs of our clients in facilitating the use and operation of the equipment. Our efforts in responding rapidly to our clients' requests have led us to include within our catalogue a range of services, such as maintenance programmes, engineering services, control and automation systems, parts supply and technical assistance.



SERVICES

BU 1

- MSW** MUNICIPAL WASTE
Masias Recycling
- MRF** COMMINGLED
Masias Recycling
- C&D** CONSTRUCTION AND DEMOLITION
Masias Recycling
- +RE** RE-ENGINEERING
Masias Recycling

- BIO** BIOLOGICAL TREATMENT
Masias Recycling
- IND** INDUSTRIAL WASTE
Masias Recycling
- BMS** BIOMASS
Masias Recycling
- MC** MASIAS COVERTECH
Masias Recycling

- MRF** LIGHT PACKAGES
Masias Recycling
- RDF** ALTERNATIVE FUELS
Masias Recycling
- MET** METALS
Masias Recycling

BU 2

- SB** BALLISTIC SEPARATOR
Masias Recycling
- TR** REFINING SIEVE DRUM
Masias Recycling
- MW** WINDSIFTER
Masias Recycling
- CB** COVEYOR BELT
Masias Recycling
- TS** TRANSFER STATION
Masias Recycling

- TR** SIEVE DRUM
Masias Recycling
- BD** BIODRUM
Masias Recycling
- SS** LDPE SUCTION SYSTEM
Masias Recycling
- SF** SCREW FEEDER
Masias Recycling
- IS** INERT SEPARATOR
Masias Recycling

- TR** DEBRIS SIEVE DRUM
Masias Recycling
- OC** OPEN CRASH
Masias Recycling
- RV** ROTATORY VALVE
Masias Recycling
- BP** BOTTLE PIERCER
Masias Recycling
- SM** USED MACHINERY
Masias Recycling

BU 3

- CT** CONSULTING
Masias Recycling
- TA** TECHNICAL ASSITANCE
Masias Recycling

- AS** ASSEMBLIES
Masias Recycling
- SP** SPARE PARTS
Masias Recycling

- MA** MAINTENANCE
Masias Recycling
- RT** RENTALS
Masias Recycling

REFERENCES

Total references since 1993: **79**

LAST 5 YEARS

TYPE OF INSTALATION	COUNTRY	CLIENT	YEAR	CHARACTERISTICS	PRODUCT
Automatization of the Dry Recyclables Treatment Plant of Valorsul	Portugal	Valorsul	2008	Automatization of the light packging sorting line (25.000 t/year)	Light packages
Dry Recyclables Treatment Plant	Greece	General Recycling	2008	2 Dry Recyclables sorting lines	Light packages
Dry Recyclables Treatment Plant	Spain	Urbaser	2008	1 Dry Recyclables sorting line (10.000 t/year)	Light packages
Automatization of the Dry Recyclables Treatment Plant	Spain	Servicios de la Comarca de Pamplona	2008	Automatization of the light packging sorting line (7.500 t/year)	Light packages
MSW Treatment Plant	China	-	2008	2 MSW pretreatment lines (450.000 t/year)	MSW
MSW and OFMSW Treatment Plant of Valnor	Portugal	Valnor	2008	1 MSW pretreatment line, 2 OFMSW pretreatment line	MSW, Biological
Automatization of the Dry Recyclables Treatment Plant of Valnor	Portugal	Valnor	2009	Automatization of the light packging sorting line (12.000 t/year)	Light packages
C&D Waste Treatment Plant	Spain	Gestora de Runes	2009	1 C&D waste treatment line	CD
Automatization of the Dry Recyclables Treatment Plant of Resinorte	Portugal	Resinorte	2009	Automatization of the light packging sorting line (12.000 t/year)	Light packages
Automatization of the Dry Recyclables Treatment Plant of Suldouro	Portugal	Suldouro	2009	Automatization of the light packging sorting line	Light packages
RDF Production Plant	Greece	General Recycling	2009	1 RDF production line	RDF
Commingled Waste Treatment Plant	United Kingdom	Mercia Waste Management	2009	2 Commingled treatment lines	Commingled
MSW Treatment Plant of Valorlis	Portugal	Efacec	2009	1 MSW pretreatment line	MSW
C&D Waste Treatment Plant of Transucatas	Portugal	Transucatas	2009	2 C&D waste treatment lines	CD
Automatization of the Dry Recyclables Treatment Plant of Amarsul	Portugal	Amarsul	2009	Automatization of the light packging sorting line	Light packages
MSW Waste Treatement Plant of Vallés Occidental	Spain	UTE CTR Vallés	2010	3 MSW pretreatment lines, 1 compost refinement line	MSW, Biological
Resinorte MSW Treatment Plant of Resinorte	Portugal	Amave	2010	2 MSW pretreatment lines, 1 final product baging system	MSW
Automatization of the Dry Recyclables Treatment Plant of Valorsul (Resioeste)	Portugal	Valorsul (Resioeste)	2010	Automatization of the light packging sorting line	Light packages
Ecoparc 2	Spain	Ecoparc del Besós	2010	1 Dry Recyclables sorting line, including bag opener and balistic separator	Light packages
MSW and OFMSW Treatement Plant of Amarsul	Portugal	Soares da Costa	2010	2 MSW pretreatment lines, 1 OFMSW pretreatment line	MSW, Biological
MSW Treatment Plant of Planalto Beirao	Portugal	EcoBeirao	2010	1 MSW pretreatment line	MSW

TYPE OF INSTALATION	COUNTRY	CLIENT	YEAR	CARACTERISTICS	PRODUCT
MSW Treatment Plant of Planalto Beirao	Portugal	EcoBeirao	2010	1 MSW pretreatment line	MSW
OFMSW Composting Plant of La Selva	Spain	Consell Comarcal de La Selva	2011	1 MSW pretreatment line (12.500), 1 OFMSW pretreatment line (5.000), 5 aerobic digestion tunnels, 1 compost refinement line	Biological
Upgrade of the Composting Plant of El Bages	Spain	Consorci del Bages	2011	Upgrade of the existing OFMSW pretreatment line	reengineering
Upgrade of the MSW Composting Plant of Amarsul	Portugal	Amarsul	2011	Upgrade of the existing MSW pretreatment line, including automatic optical separation	reengineering
Upgrade of the MSW Treatment Plant of Marsella	France	Evere	2011	Upgrade of the existing OFMSW pretreatment line	reengineering
MSW Anaerobic Digestion Plant	Portugal	Valnor	2011	Facility of 8 anaerobic digestion tunnels (25.000 t/year)	Biological
MSW Treatment Plant	Spain	GBI	2011	1 MSW pretreatment line, 1 compost refinement line	MSW
RDF Production Plant	Portugal	Valnor	2011	1 RDF production line	RDF
MSW Treatment Plant	Portugal	ABB	2011	1 MSW pretreatment line (50.000 t/year)	MSW
Industrial Waste Treatment Plant	Spain	FCC	2012	1 industrial waste treatment line	Industrial
MSW Treatment Plant	Spain	UTE Teconma-Azahar-Ecodeco	2012	1 MSW pretreatment line, with biodrying	MSW
Commingled Waste Treatment Plant	United Kingdom	Amey Cespa	2012	2 Commingled treatment lines	Commingled
MSW Treatment Plant	Spain	UTE Ecored	2012	1 MSW pretreatment line	MSW
MSW Treatment Plant	Spain	UTE Ecored	2013	1 MSW Pre-treatment line + Refinement	MSW
RDF Production & Recovery Plant	Norway	Steco	2013	1 C&I Mechanical Treatment Line	RDF
Ecoparc-1	Spain	Ecoparc de Barcelona	2013	Upgrading of existing mechanical pre-treatment Plant	reengineering
Ecoparc-2	Spain	Ecoparc del Besós	2013	Upgrading of existing mechanical pre-treatment Plant	reengineering
Apeval Food Waste Treatment Plant	France	Apeval	2013	1 Food Waste Mechanical and Thermal Drying treatment plant	Industrial
Resitejo MSW Valorization Plant	Portugal	Resitejo	2013	1 x Mechanical and Thermal Drying Treatment Plant	MSW
Essex MSW Treatment Plant	United Kingdom	UBB	2014	3 MSW Mechanical Pre-treatment Plant + 1 Refinement Plant	MSW
Recydia MSW Treatment Plant (Re+)	Turkey	RECYDIA / HEREKO	2013	2 MSW Mechanical Pre-treatment Plant + Biodryer + Mechanical treatment of the dry material. SRF production	MSW
Neales C&I Treatment plant	United kingdom	NEALES WASTE MANAGMENT	2014	1 Mechanical Pre-treatment Plant	Industrial

WATERBEACH

Location	Waterbeach (UK)
Client	Amey Cespa
Year of commissioning	2012
Waste to process	Commingled
Treatment capacity	14 t/ph
Scope of supply	Turnkey supply of mixed package treatment plant (commingled) including bag opening equipment, glass breaker, paper separation screens, ballistic separator, optical separators and pressing equipment.



GENERAL DESCRIPTION

AmeyCespa is one of the main suppliers of recycling, composting, anaerobic digestion and waste management services in the United Kingdom. The company combines the experience of the British company Amey and the Spanish company Cespa.

AmeyCespa was formed in 2007 with the aim of uniting the experience of Amey in the United Kingdom service sector with the wide knowledge of Cespa in waste management in order to enter the British waste market.

AmeyCespa (MRF) was officially opened on 10 December 2012. The facility is located on

the Waterbeach waste management park, Ely Road, and contains classification equipment for separating mixed materials which are ready for recycling. The civil construction project was carried out by Vinci Construction UK Ltd, and the turnkey treatment system was supplied by Masias Recycling.

The facility has an initial capacity to process some 60,000 tons of material per year. The plant can process up to 100,000 tons per year if necessary, including recycling from neighbouring councils, offering a local service for the region.

The MRF comprises of one treatment line, including bag opener, suction system, ballistic separator, corrugated cardboard separator, glass separator and optical classification, with the main aim of the process being the separation of recyclable material such as metals, plastics and paper collected from the mixed blue bins in the county of Cambridgeshire.



WATERBEACH



REFERENCES

LLIRIA

Location	LLiria (Spain)
Client	Consorcio Valencia Interior
Year of commissioning	2013
Waste to process	MSW
Treatment capacity	The capacity in the plant for waste treatment is 80,000 tons per year and 40,000 tons per year of composting with a capacity to take in a 50% increase in workload for 4 months in order to manage the seasonal pattern for waste generation in these areas.
Scope of provision	Turnkey provision of treatment plant for urban solid waste and composting.



GENERAL DESCRIPTION

This treatment centre is located within the municipality of LLiria, 40km from Valencia. The facilities are charged with dealing with the MSW from the areas of Camp de Turia and Los Serranos, which form a part of the zonal plan vi, vii, ix – v3 of the Community of Valencia.

The treatment of waste starts after access control and weighing of the collection trucks, which access the interior of the screening area in order to unload the waste into the two reception pits. From there the electro-hydraulic grab feeds the municipal waste treatment line.

On this line there is manual and electromechanical selection of large or valuable elements (plastics, paper/cardboard, glass, etc.) through screening in sieve drums, ballistic separation of rolling and flat fractions, film

suction, electromagnetic separation of ferrous and non-ferrous metals, separation via an optical system of plastics and tetra briks, recovery and forwarding of sub-products, separation of organic fractions and the pressing of rejected material.

All the waste recovered in the treatment processes is forwarded to authorized waste managers for valuation. The rejected material which cannot be used from the various treatments is forwarded, if of no value, to non-toxic waste dumps. After screening shredded vegetable waste is added as a structuring material to the biodegradable organic waste separated mechanically and the organic waste originating from selective collection, and it goes on to the biological composting treatment.

The composting is carried out in the 15 automatically loading closed tunnels, with forced aeration in order to decompose the biodegradable organic material from the waste anaerobically, for a period of approximately two weeks. Then the waste is extracted from the tunnels with a paddle in order to feed the maturing room, where the waste is kept in heaps with periodical turning, with the maturing period lasting between 4 and 6 weeks approximately. After maturing the unrefined compost obtained is forwarded to the other facility within the zonal plan for refining and the production of a compost suitable for agricultural use or biostabilization in the correction of soils, and/or other valuable operations.



LLIRIA



REFERENCES

CTR VALLÈS

Location	Vacarisses (Spain)
Client	Consorci per la Gestió de Residus del Vallès Occidental
Year of commissioning	2010
Waste to process	RSU
Treatment capacity	350.000 t/year Number of treatment lines: 3 lines Nominal capacity : 21 t/h per line Design capacity: 27 t/h per line Real capacity: 30t/h per line
Scope of supply	Turnkey supply of treatment plant for urban solid waste and facilities for screening of stabilized organic material.



GENERAL DESCRIPTION

The main processes which are carried out in the treatment plant for the remaining fraction (mixed waste which still contains recoverable material) are the following:

- Reception and mechanical pre-treatment
- Aerobic stabilization
- Screening and storage of the biostabilized waste

Reception and mechanical pre-treatment:

The remaining fraction of waste arrives at the plant and is unloaded into the reception pits, from where the three pre-treatment lines are fed (each with a capacity for 27 tons / hour) via the grabs. The waste pre-treatment process includes, for each line: a screening cabin to separate voluminous objects, glass, paper and cardboard manually, a bag opener, successive separation stages via various instruments, such as sieve drums and ballistic

separators, magnetic separators for ferrous materials, induction separators, plastic film suction and optical separators, with the aim of classifying valuable material. The valuable materials which can be recovered (PET, HDPE, film, mixed plastics, briks, paper-cardboard, ferrous materials and aluminium) are forwarded to the corresponding waste managers for recycling.

The rejected material, which is almost inert, which cannot now be used, is sent shrink-wrapped for controlled dumping. Finally the organic material contained within the waste is ready for the subsequent biological process.

Aerobic stabilization:

The organic material present in the remaining fraction of the waste which comes into the plant, once separated during the pre-treatment process, is stabilized in a closed storage

area. This stabilization process takes place via decomposition of the material in the presence of oxygen. The area is kept below atmospheric pressure to avoid external smells.

Using a machine called a bucket wheel excavator the piled organic material is moved for six weeks in order that the process of decomposition of the organic material occurs.

Screening and storage of the biostabilized waste:

Once the composting process has finished a biostabilized material is obtained which can be screened using a trommel and two vibrating tables in order to remove any possible impurities. During this final treatment stage a material is obtained which is suitable as a filler to restore slopes during public works.



CTR VALLÈS



REFERENCES

RESITEJO

Location	Carregueira (Portugal)
Client	Resitejo - Associação de gestão e tratamento dos lixos de médio Tejo
Year of commissioning	2013
Waste to process	MSW and Industrial
Treatment capacity	55,000 t/ year MSW and 7,000 t/ year industrial
Scope of supply	30 t/h MSW line and 3.75 t/ h Industrial line. These two lines have shared elements.



GENERAL DESCRIPTION

This plant has been designed to take municipal waste as its raw material, which must be selected with the aim of producing results. In addition the waste is seen for its nature, instead of due to its classification. Organic waste (that is, food and paper), plastics, metals, etc. are seen according to their physical and chemical properties.

The use of composting for organics is not only very expensive, as it is derived from non-selected waste, but also produces a low quality product which is difficult to sell. Organic material is basically the biomass which can be used as a fuel in the system itself or externally. It can be used as a solution on biomass ovens without loading the environmental decontamination systems, and if it is dry it has a high energy efficiency.

First stage:

The unclassified waste is fed into two large Biodrums which basically partially break down and degrade the material, heating it a little and easing the process of separation of the wet part (organic and wet paper) and the dry part made up mainly of plastics. Following a number of mechanical selection processes (sieve drum and ballistic separator), the organic part is dried in two dryers via a method which does not destroy its carbon bonds. In

this way a biomass fuel is produced which can be sold or reused in the facility itself, and which is known as green SRF.

The dry part of the waste (plastics) is used to produce a high quality RDF to be sold to co-incineration facilities (that is, the production of cement). In this way all types of metals and other materials (such as high quality plastics) can be recovered. The operation is completely automatic and can be considered as a production line with low maintenance costs.

The quantity of rubbish which goes to dumps is to a large extent made up of inert material and small stones. The most expensive part of the treatment is the drying process, but even so it costs half that of a composting treatment.

Of the 100,000 tons which enter the process about 30,000 tons of high quality RDF and 20,000 tons of biomass (green SRF) come out. This can be used as RDF or material to feed a biomass boiler. In addition to this, several tons are high quality metals and plastics. Only 11,000 tons of inert material is taken to the dump. (Free of methane and leachates)

Second stage:

From the previous stage it could be concluded

that there are various outcomes which may be used to produce energy (two types of RDF). In addition, and despite the fact that drying the organic waste is less costly than composting, the natural gas is still the highest cost in the first stage. This integrating vision would imply the installation of some energy producer which could use some of the green SRF to produce steam which could be used to dry the organic material.

The aim of this point is that in Portugal the government has accepted the use of this green SRF as biomass. This allows us to use biomass boilers to produce the quantity of energy necessary in order to obtain the steam used in the dryers.

Conclusions

We can describe our focus as a new way of approaching the problem of non-selective municipal waste, where we are trying to eliminate all the disadvantages of the various systems while including their advantages.

RESITEJO



REFERENCES

Total references since 2011: **18**

Key machines	Location	Country	Client	Year	Models
Transporters for bag openers	Tona, Vic	Spain	Mancomunitat La Plana	2011	PAE
By-pass annex	Tondela	Portugal	Planalto Beirao	2011	UP
Accelerating Transporters	A Coruña	España	Titech visionsort España	2011	PLS
for Optics	A Coruña	Spain	Titech Visionsort España	2011	PLS
Drum	Manchester	England	Eggersmann Anlagenbau gmbh	2011	TR3/12/12
Drum	Melbourne	Australia	Koga pty. ltd	2011	TR2/5/7
Ballistic separator	Varna	Bulgaria	Balistico egge	2011	SB80
Ballistic separators	Manises	Spain	SFs installation 3 ute	2011	3 x SB80
Bag opener	Vic	Spain	Mancomunitat La Plana	2011	OC180/75
Biodrums	Bayonne	France	Urbaser environnement	2011	3 x BD4,25/48
Windsifter	Onda	Spain	Mediterranean Wastes	2011	MW1000
Transporters	Seixal	Portugal	Transucatas	2012	UP
Plate transporter	Reus	Spain	FCC Reus	2012	PK
Sieve drum	Garbiker	Spain	Ute tmB arraiz	2012	2x TR3//8/10,
2xTR3/12/14	Kostroma	Russia	Rema	2013	SB40
Sieve drum	Serín (Asturias)	Spain	Valoriza - Cogersa	2012	TR3/10/12
Ballistic separator	Kostroma	Russia	Rema	2013	SB40
PET piercer	Peralta	Spain	Mancomunidad rsu riberta alta de	2013	SB40
Navarra	2013	BP765			
Rotary Valve	Granollers	Spain	Sebastia Llorens s.l	2013	MO120
Ballistic separator	Grudziadz	Poland	Eggersmann Anlagenbau gmbh	2013	SB40

REFERENCES

Total references since 2011: 21

SERVICES	Correctivo/Preventivo	Importe	País	Cliente	Año
Shredding equipment drum change + change shear bar	Corrective	45,000.00	Spain	BERZIKLATU, S.L.	2011
Modification to tedder cabinet	Corrective	35,000.00	Spain	FCC Segovia	2011
Change Doppstadd comb	Corrective	35,000.00	Spain	SELECTIVES METROPOLITANES, S.A.	2011
Burnt machine repair	Corrective	250,000.00	Portugal	VALNOR	2011
Repair burnt Crambo shredder	Corrective	32,000.00	Spain	ECOPARC DEL BESOS, S.A.	2012
Plant fire (rehabilitation 1 line with 3 sieve drums)	Corrective	200,000.00	France	EVERE, S.A.S.	2012
Crambo materials (Change planetary gears, screens, 2 drums, etc.)	Corrective	54,000.00	Portugal	HIDURBE CVO ACE	2012
Change planetary gear terminator	Corrective	47,000.00	Spain	PROMIC, S.A.	2012
Change 2 rotors for new system	Corrective	40,469.48	Spain	RESIMA, S.L.	2012
Change planetary gears	Corrective	54,692.32	Spain	SELECTIVES METROPOLITANES- SEMESA	2012
Repair axles, change plates change 1300mm blades	Corrective	30,000.00	Spain	AQUALOGY MEDIO AMBIENTE, S.A.	2013
Ballistic SB-120 rehabilitation	Corrective	30,000.00	Spain	ECOPARC DEL BESOS, S.A.	2013
Tedder cabinet	Corrective	23,000.00	Spain	FOMENTO - BALMES - LAS MARINAS (DF)	2013
Assistance 10,000 + change sieve drum	Corrective	66,000.00	Portugal	HIDURBE CVO ACE	2013
Maintenance contract + Ballistic testing at Masias	Preventive	60,000.00	Spain	PROMIC S.A:	2013
Drum maintenance/repair contract	Preventive / corrective	36,000.00	Spain	SELECTIVES METROPOLITANES - SEMESA	2013
Maxx sieve drum	Corrective	31,000.00	Spain	UTE LOS HORNILLOS	2013
PK transporter repair	Corrective	30,000.00	Spain	UTE ALMANZORA	2013
Paddle change	Improvement	20,000.00	Portugal	VALORSUL	2013
3-year maintenance contract	Preventive	700,000.00	Turkey	HEREKO	2013
3-year maintenance contract	Preventive	320,000.00	England.	NEALES	2013

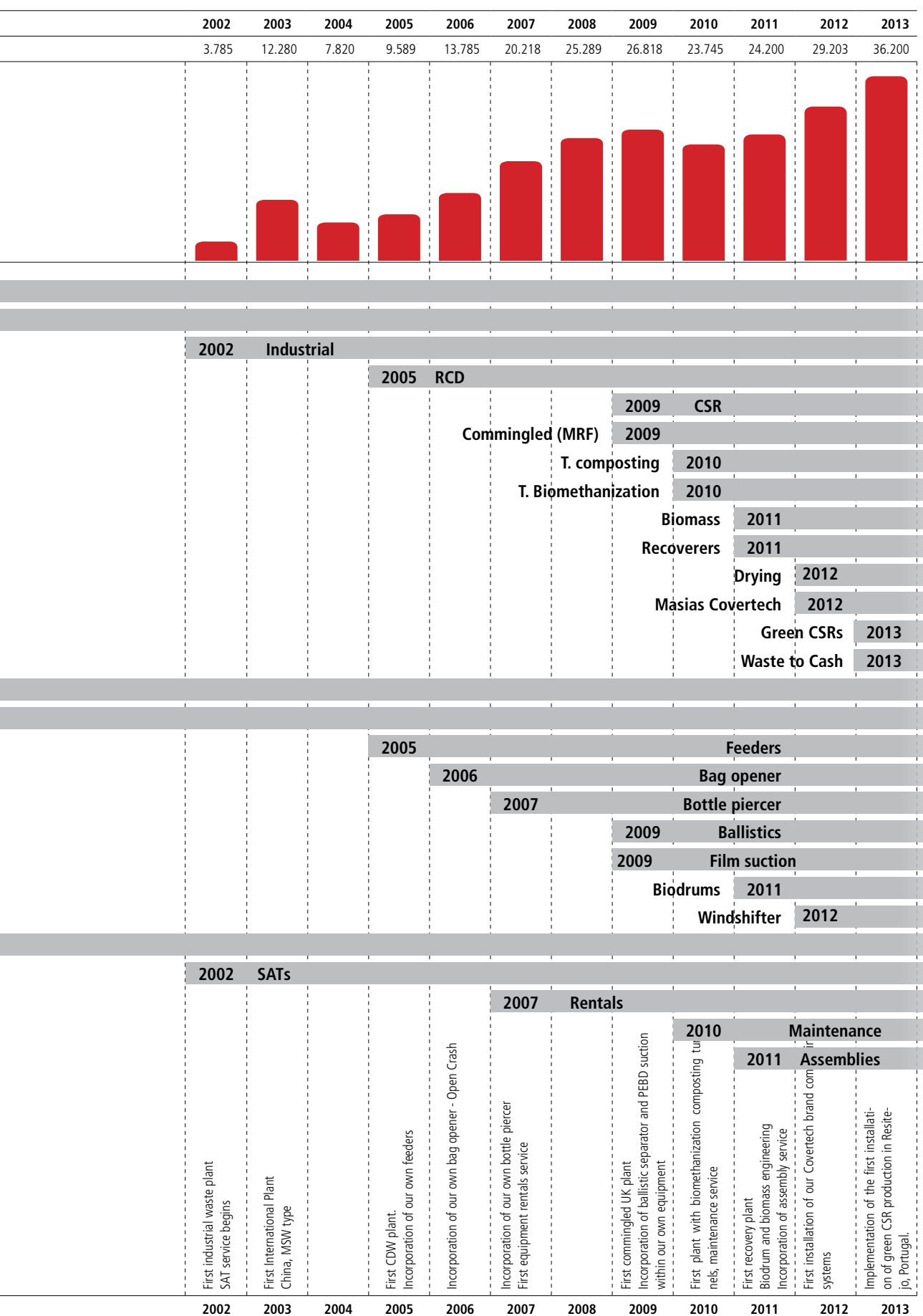
EVOLUTION

TURNOVER

PRODUCTS

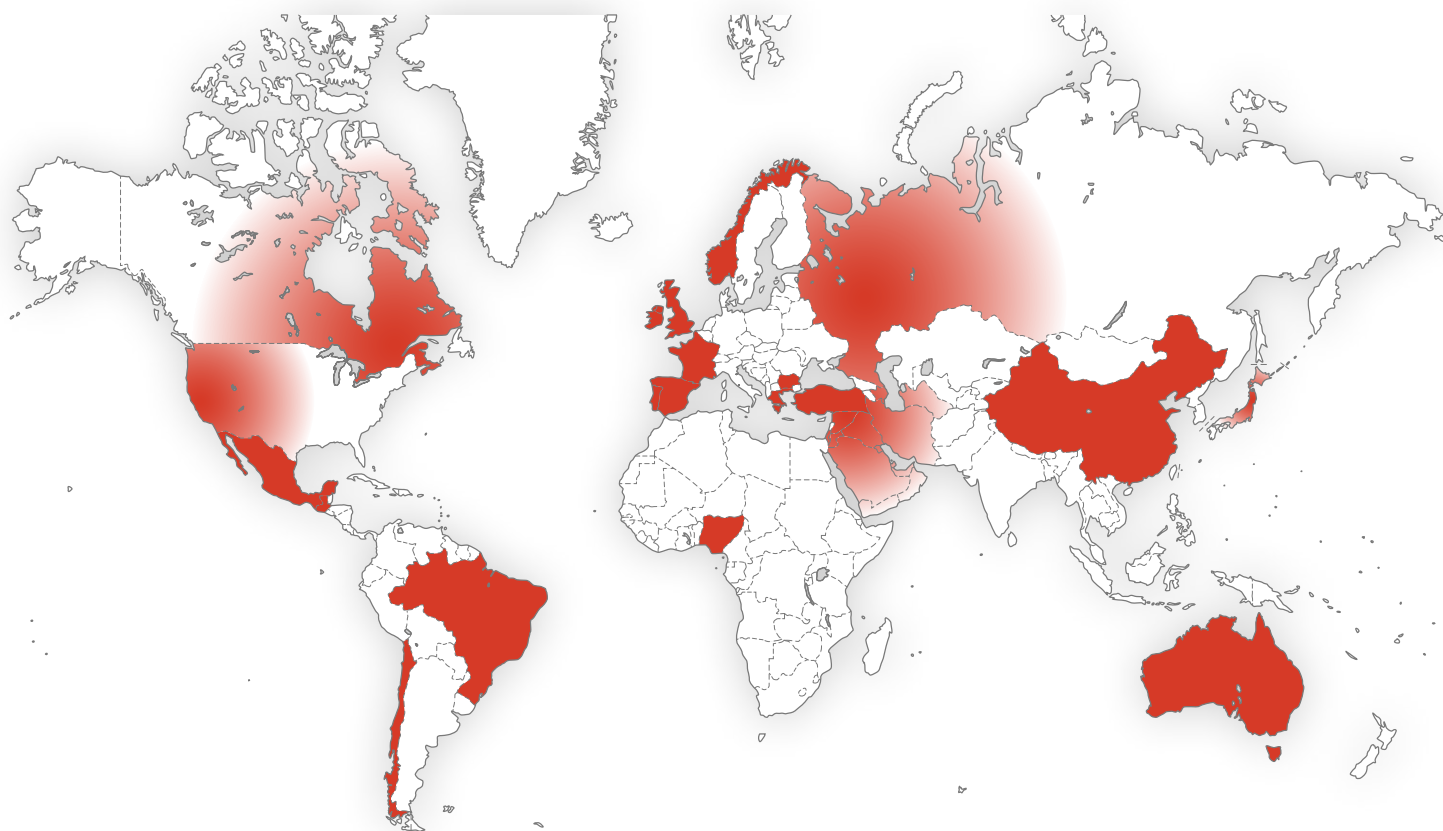
MAJOR LANDMARKS

1993	1994	1995	1996	1997	1998	1999	2000	2001
-	-	-	2.240	2.649	3.058	3.597	3.233	2.410
Masias Recycling begins			First LPW plant Client: B.F.I. Mollet	First MSW plant Incorporating house equipment: Transporters and sieve drums. Spare parts service begins.				
			1996 LIGHT PACKAGES	1997 MSW				
				1997 Conveyors				
				1997 Sieve drums				
				1997 Spare parts				



INTERNATIONALIZATION

Masias Recycling markets its products and offers services to countries in all continents. It currently has offices in Madrid, Portugal, England and Turkey. In the next few years the company plans to open new offices in the main emerging markets.



CREDENTIALS

- 1 Contractor Classification
- 2 Quality Certificate
- 3 ISO 9001
- 4 ISO 14001
- 5 Health and Safety Certificate
- 6 Environmental Certificate
- 7 Accident Record
- 8 Equal Opportunities Policy





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Advanced Recycling Technologies