

WASTE MANAGEMENT IN LISBON REGION

MISSION



“ To develop, implement and manage an integrated system for the treatment of municipal solid waste, serving 19 municipalities in the areas of Lisbon and West Portugal which is technically advanced, environmentally and financially sustainable. ”

SHAREHOLDERS



ASSOCIAÇÃO
AMO+

55,08%

17,85%

11,51%

5,16%

4,61%

0,54%

5,25%

Company start up:

16 September 1994

Merger with Resioeste:

15 June 2010

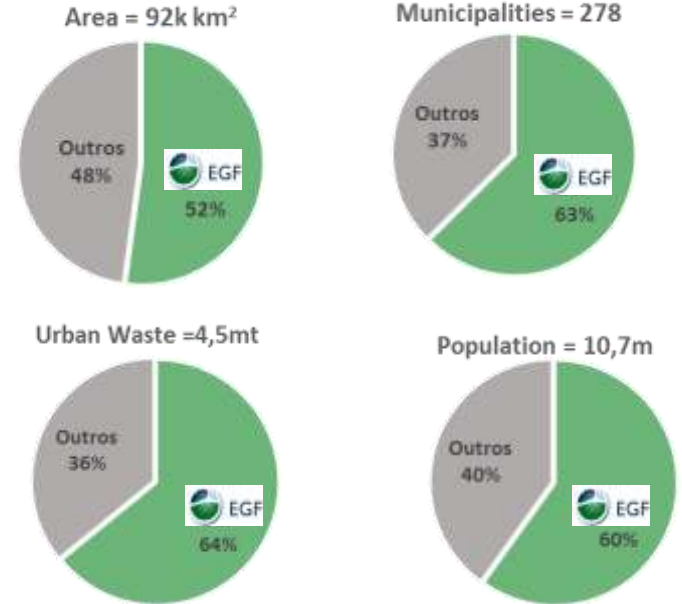
Concession:

25 years (until 2034)

EGF Overview: Key Metrics and Positioning

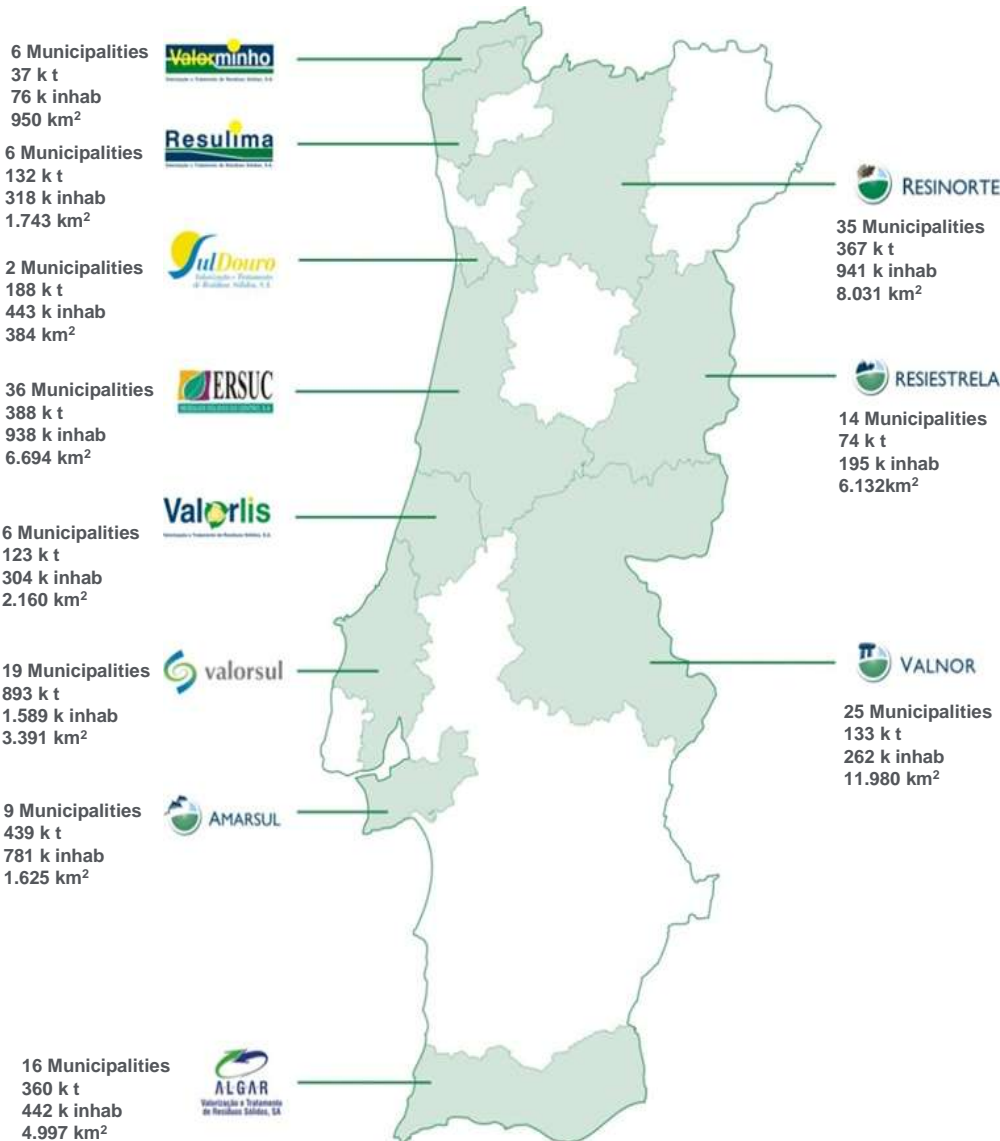
EGF is a market leader in upstream waste services in Portugal.

Portuguese MSW



EGF Group (2014)

- 48,089 km² covered
- 6.3 million people served
- 3.1 million t waste treated
- Revenues: €170 million
- EBITDA: €57 million
- Net Income: €10 million



RELEVANT DATA



FIGURES 2014



Municipal solid waste produced= 472 kg/inhab.year
1,3 kg/inhab.day

19 Municipalities

3378 km²

1.6 million inhabitants

894 thousand tons of MSW /year

20% of total Portuguese waste

CONCESSION AREA



INFRASTRUCTURES



1 Waste to Energy Plant

1 Bottom-Ash Recovery Plant

2 Sanitary Landfills

2 Sorting Centres

1 Anaerobic Digestion Plant

8 Ecocentres

6 Transfer stations

FINANCING



	until 2014	until 2034
TOTAL INVESTMENT	€350.822	€488.248
EU Structural Funds	€132.273	€132.273
EIB Loans	€92.278	€92.278
Equity capital	€126.271	€263.697

*source: Annual Report 2014 and OPT 2015
(values in €000)*

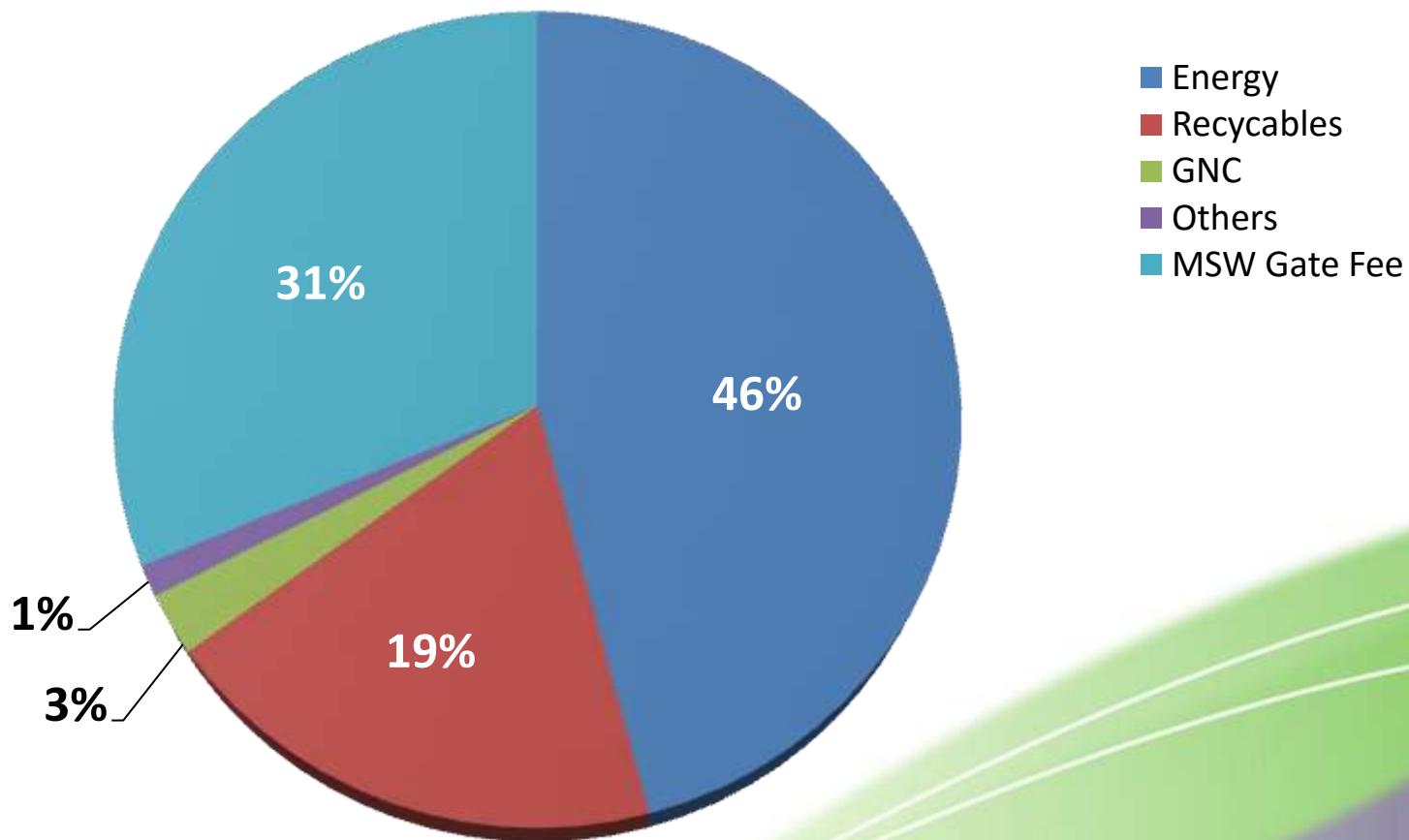
REVENUES



	2014	2013	2012	2011
Energy	24.242.996	30.518.554	23.765.090	29.458.094
Recyclables	10.067.790	10.052.655	9.345.953	10.182.940
GNC	1.299.270	1.269.652	1.120.877	883.491
Other	663.016	845.723	678.607	941.774
MSW gate fee	16.560.407	17.189.261	16.564.317	19.347.246
Total	52.833.479	59.875.845	51.474.845	60.813.546

(Values in euros)

REVENUES 2014



TOTAL INVESTMENT



BUSINESS UNIT	MILLION EUROS
Waste-to-Energy Plant	176,595
Sanitary Landfill (Mato da Cruz)	27,062
Sanitary Landfill (Cadaval)	28,245
Bottom-Ash Recovery Plant	2,579
Anaerobic Digestion Plant	30,783
Sorting Centre (Lisboa)	14,131
Sorting Centre (Cadaval)	6,801
West Selective Collection (14 municipalities)	5,217
Municipal Investment (Lisboa area)	17,233
Municipal Investment (West area)	7,518
Lisbon selective collection	18,789
Headquarters	4,532
Others	0,187
Merger Fund	11,151
TOTAL	350,822

GATE FEE EVOLUTION



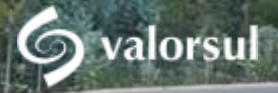
Ano	€/t.RU	Ano	€/t.RU
1998*	23,59 €	2007	21,97 €
1998	23,36 €	2008	22,86 €
1999	23,06 €	2009	22,86 €
2000	22,08 €	2010	22,86 €
2001	22,60 €	2011	20,97 €
2002	23,04 €	2012	19,89 €
2003	23,83 €	2013	20,09 €
2004	24,51 €	2014	20,13 €
2005	20,59 €	2015	19,44 €
2006	22,07 €		

Gate fee charged to municipal clients for the MSW reception.

INTEGRATED MANAGEMENT SYSTEM



VALORSUL TEAM



HUMAN RESOURCES



Headquarters	60
--------------	----

Waste to Energy Plant	69
-----------------------	----

Sorting Centre	51
----------------	----

Anaerobic Digestion Plant	30
---------------------------	----

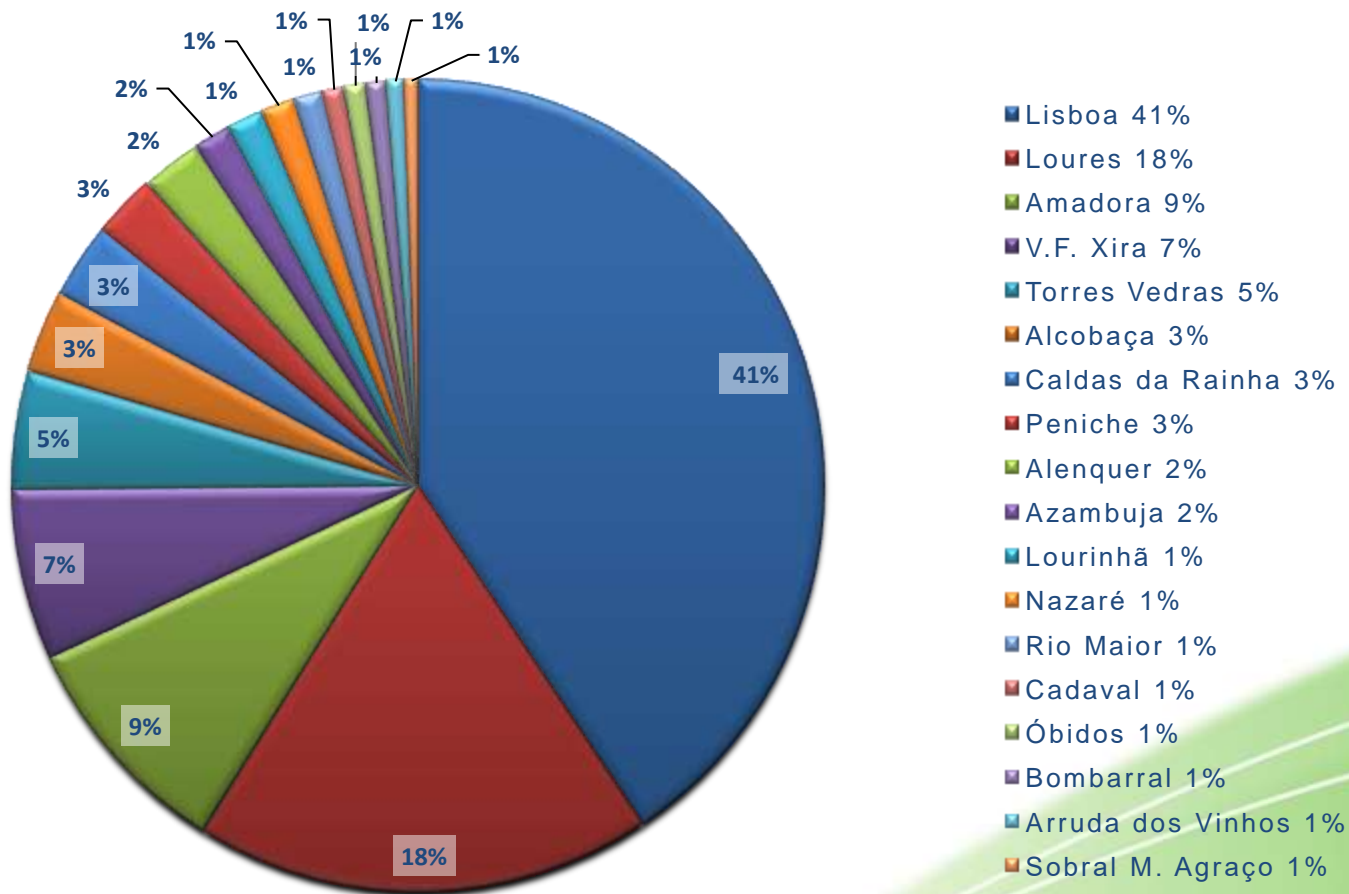
Sanitary Landfill	21
-------------------	----

Bottom-Ash Processing and Recovering Plant	8
--	---

Waste Treatment Centre – West region	113
--------------------------------------	-----

Total	353
--------------	------------

WASTE SOURCING 2014



Municipalities: 708 804t

Private operators: 41 851t

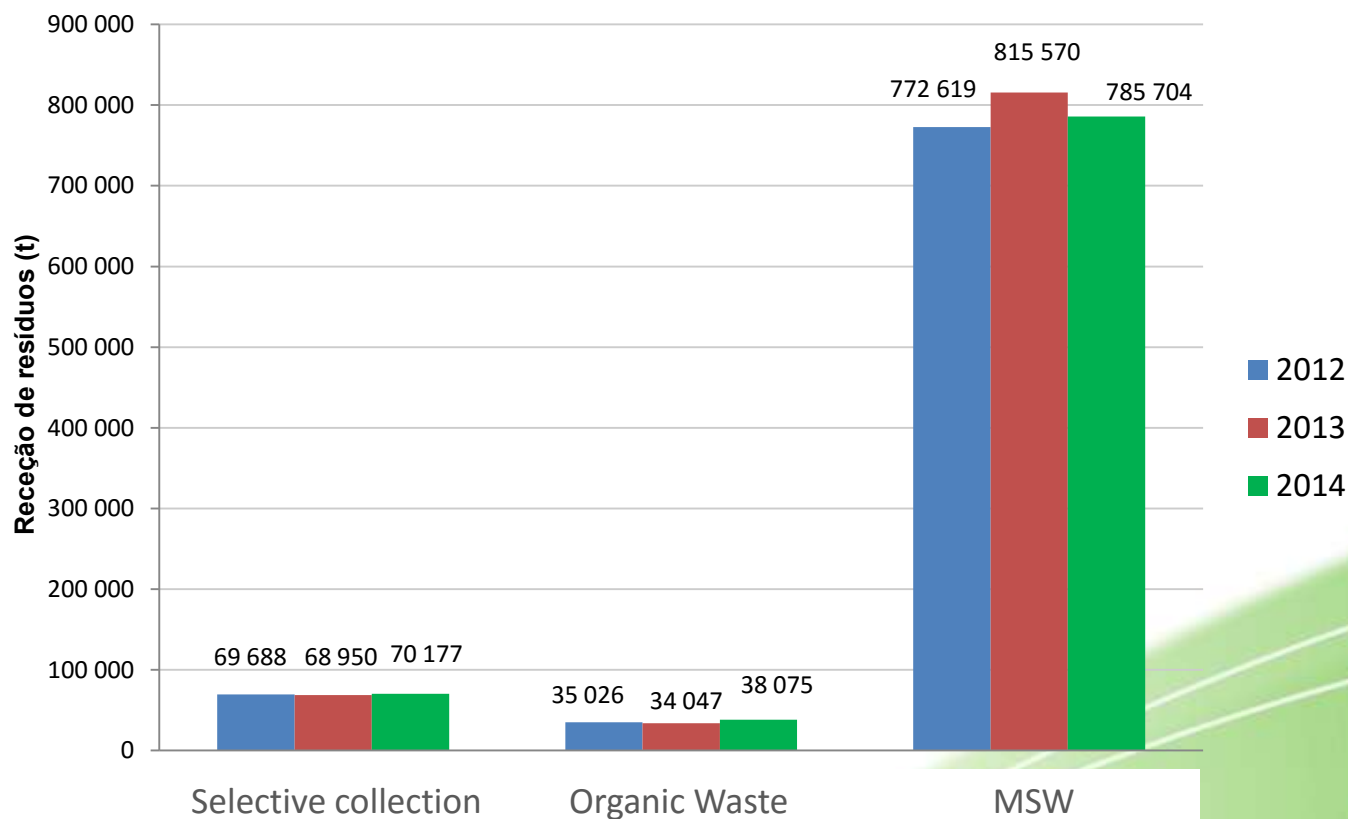
Waste from AMTRES: 143 302t

TOTAL: 893 956t

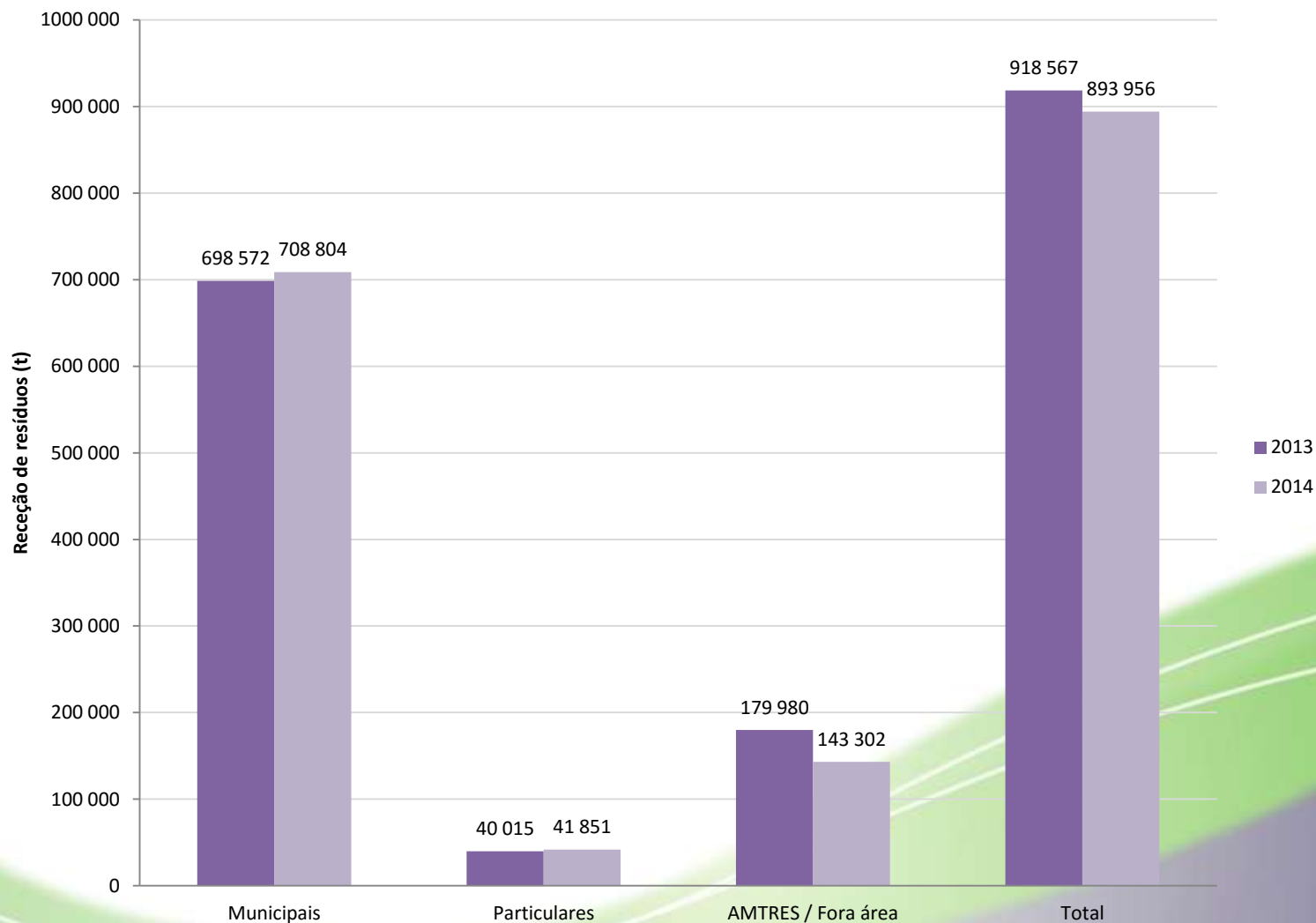
WASTE RECEPTION



By type of collection



WASTE RECEPTION



COLLECTION MODEL



RECYCABLE COLLECTION

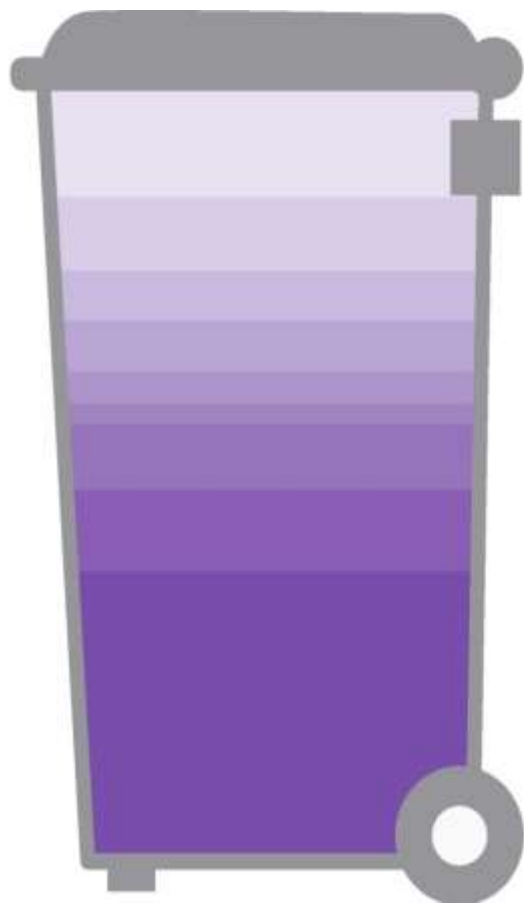


in 14 municipalities in the West of Portugal



- 2.484 collection points
- fleet of 14 collection trucks
- In 2014 Valorsul trucks drove 436 mil km to collect recyclable materials.
- 11.252 tons of paper, glass, plastic and metal collected.

MSW STREAM BY WEIGHT



- Paper/Cardboard 15%
- Plastic 12%
- Glass 5%
- Diapers and other sanitary textiles 7%
- Textile 3%
- Metals 2%
- Others 5%
- Small size materials 10%
- Organic 41%

Average of the waste characterization campaigns conducted by Valorsul in 2014

WASTE TO ENERGY

São João da Talha | Loures



WASTE TO ENERGY



- ✓ **Incineration capacity:** 2.016 t/day (nominal)
- ✓ **Reception:**
 - ✓ 2012 = 532.224t
 - ✓ 2013 = 633.040t
 - ✓ 2014 = 605.777t
- ✓ **Incineration capacity furnace/hour:** 28t/h
- ✓ **Reception area capacity:** 12.500t
- ✓ **Furnace average temperature:** 980°C
- ✓ **Energy average selling price:** 86 Euros/MWh

MONITORING PROGRAMS



- Air Quality (continuous) - Valorsul
- Air Quality (descontinuous) – Sondar.l
- Water and Sediments Quality - Hydrographic Institute (Portuguese Navy)
- Terrestrial and estuarine ecosystems - Oceanographic Institute (Science School of the University of Lisbon)
- Noise – Ailton Santos & Associates
- Public health surveillance - Preventive Medicine Institute (Medicine School of the University of Lisbon)
- Residents attitude (Psycho-social) - Factor Social

Sanitary Landfill

Mato da Cruz



SANITARY LANDFILL

Mato da Cruz



Technological process: Technical confinement

Area: 42 ha

MSW source: MSW from municipal collection

Energy Production/Export: 12.856 MWh

BOTTOM-ASH RECOVERY PLANT

Mato da Cruz



BOTTOM-ASH RECOVERY



Technological process: Maturation of the bottom-ash from the Waste to Energy Plant and recovery of ferrous and non-ferrous metals

Location: next to the Sanitary Landfill (Mato da Cruz – V.F. de Xira)

Area: 2,8 ha

MSW source: Waste to Energy Plant

Start-up date: August 2000

Capacity: 200 thousands ton / year

SANITARY LANDFILL

Pêro Moniz | Cadaval



SANITARY LANDFILL

Pêro Moniz | Cadaval



Technological process: Technical confinement

Area: 46 ha

MSW source: MSW from municipal collection

Energy Production/Export: 7.765 MWh

SORTING CENTER

Lumiar | Lisboa



SORTING CENTER

Lumiar | Lisboa



Reception:

- ✓ 2012 = 54.976t
- ✓ 2013 = 55.051t
- ✓ 2014 = 56.212t

Technological process: Combination of manual and mechanical sorting processes

MSW source: Selective waste collection

Capacity:

- ✓ Plastic / Metal / Beverage cartons: 4,5 t/h
- ✓ Paper/Cardboard: 15 t/h

SORTING CENTER

Lumiar | Lisboa



SORTING CENTER

Pêro Moniz | Cadaval



Technological process: Combination of manual and mechanical sorting processes

Area : 46 ha (CTRO)

MSW source: Selective waste collection

Capacity:

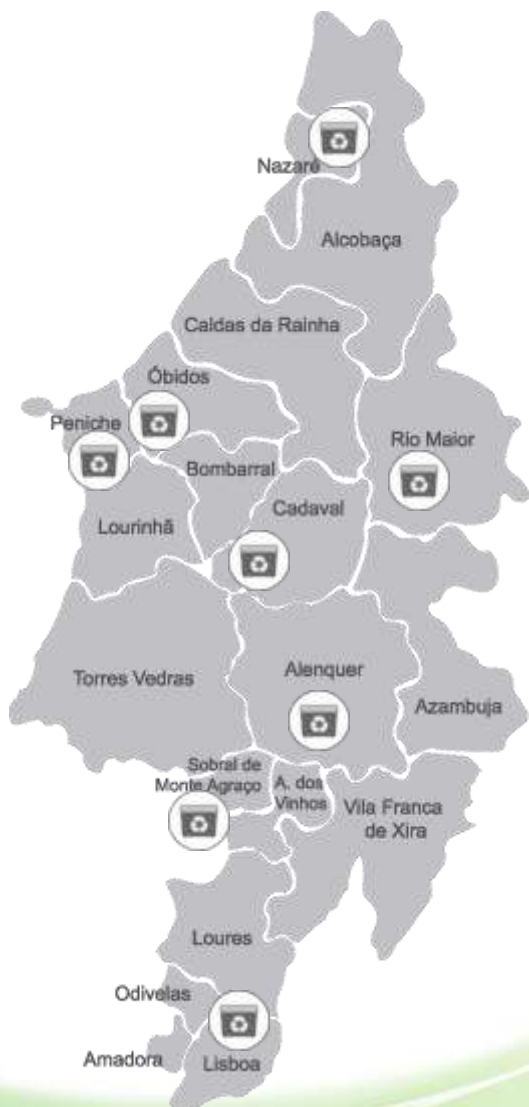
Paper/Cardboard 10 t/h

Plastic/Metal 4 t/h

ECOCENTRES



ECOCENTERS



Acceptable materials

Paper / Cardboard

Glass

Plastic Packages

Ferrous Materials

Construction Waste

Garden Waste

Wood

Batteries

Used Oil

Lamps

Motor oil



ELECTRONIC EQUIPMENT



Air conditioner and refrigeration equipment, various equipment, various lamps

TRANSFER STATIONS



ANAEROBIC DIGESTION PLANT

São Brás | Amadora



ANAEROBIC DIGESTION PLANT



Technological Process: Anaerobic Digestion Process

Area: 3 ha

Capacity: 40.000t

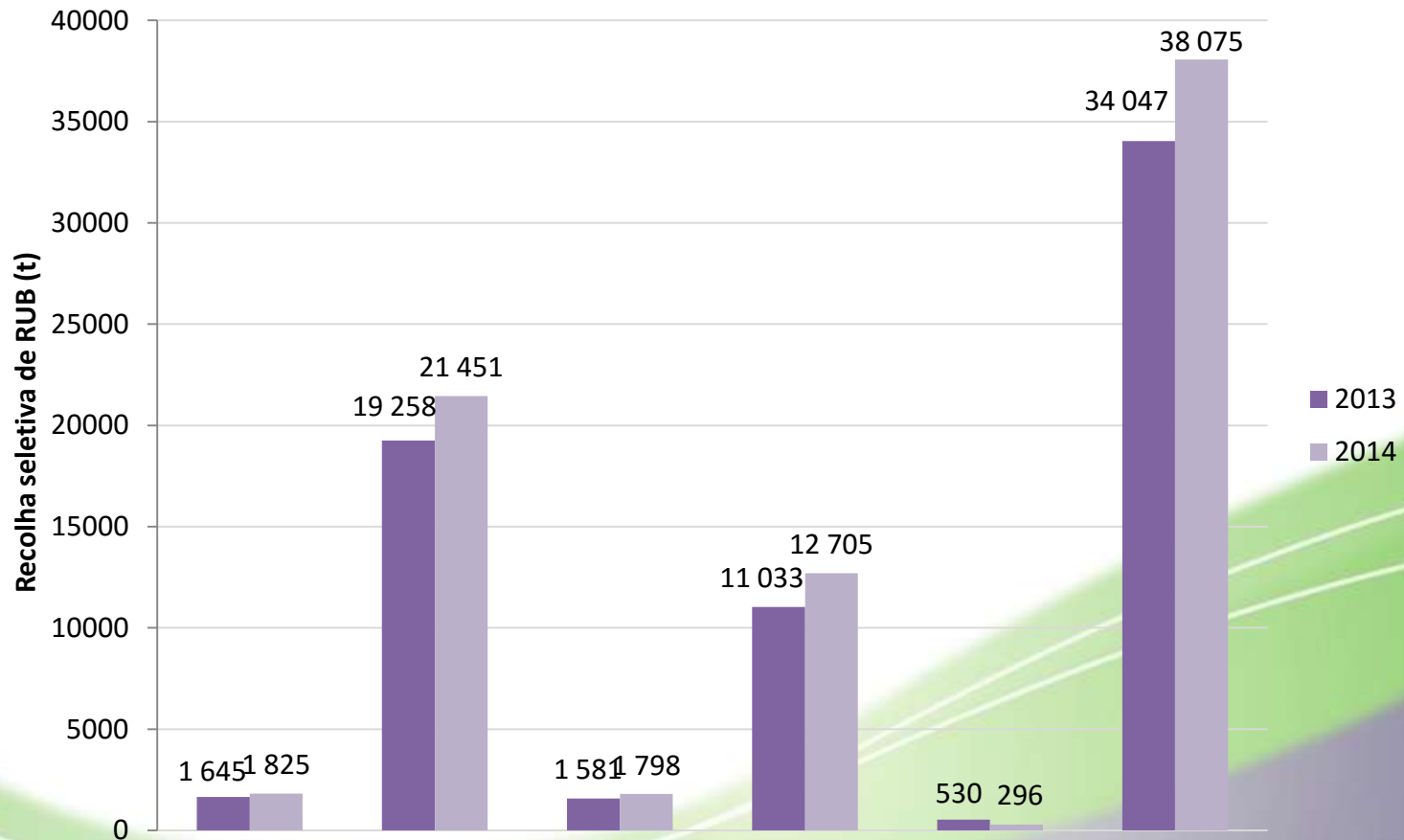
MSW source: Separated organic fraction of waste collected in restaurants, hotels, supplying and retailer markets, among others

Energy production: 8.072 MWh
annual average production from the last 5 years

Compost production: 421 tons
annual average production from the last 5 years



BIODEGRADABLE WASTE COLLECTION



LANDFILLS RECOVERY

Closing and environmental recovery of Boba waste dump, that served Lisbon municipality, until its closure in 1985. It was the biggest waste dump of the country.



LANDFILLS RECOVERY



Closure of 12 dump sites

Recovery of 3 landfills



LANDFILLS RECOVERY



Landscaping of the Santa Iria da Azóia Sanitary Landfill, that served Loures and Vila Franca de Xira until its closure in 1996.


At the present time is the Sta. Iria de Azóia Urban Park.

MUNICIPAL SUPPORT

Municipal Swimming Pool of Sta. Iria de Azóia, located in Parque Urbano of Via Rara, Loures.



MUNICIPAL SUPPORT



São João da Talha Urban Park
Recreation and Leisure area with 48.000 m²,
applying recycled materials.

MUNICIPAL SUPPORT

Turma da Mônica / Maurício de Sousa park (Amadora)

Recreation and Leisure with area 4.000 m², applying recycled materials.

MUNICIPAL SUPPORT



€5.821.622

total investment until now with the acquisition of new containers for the recyclable materials.

MUNICIPAL SUPPORT



€21.090.798

total investment with vehicles acquisition.

MUNICIPAL SUPPORT



Compressed Natural Gas (CNG) Station



Localisation: Valorsul – S. João da Talha

Purpose: Compressed Natural Gas (CNG) Station, exclusively for MSW collection and transport vehicles.

Total Investment: 1,4 million euros.

MUNICIPAL SUPPORT

Arborization Projects

Lisboa Municipality

Requalification / Forestation of Encosta do Casal Ventoso

(611 trees + 16.589 bush)

SOCIAL INITIATIVES

Victor Fraúdo | Amadora
Equipamento informático 2007/08

Faculdade Lusa
Cursos de Inglês 2008/09

Associação
de Amadores de Futebol 2009/10

Associação de Amadores de Futebol 2010/11

2006



2006
Ana Filipa Lusa | Odivelas
Cachibira de rodas elétricas 2006/07



Associação
Parceiros: Incentivo para 2008



Associação
de Amadores de Futebol 2011/12

Associação de Amadores de Futebol 2012/13
Associação de Amadores de Futebol 2013/14
Associação de Amadores de Futebol 2014/15
Associação de Amadores de Futebol 2015/16
Associação de Amadores de Futebol 2016/17
Associação de Amadores de Futebol 2017/18
Associação de Amadores de Futebol 2018/19
Associação de Amadores de Futebol 2019/20
Associação de Amadores de Futebol 2020/21
Associação de Amadores de Futebol 2021/22



SOCIAL INITIATIVES

Ecovalor Programme



Educational programme fully dedicated exclusively schools.

Municipality co-financing program for environmental education activities

SOCIAL INITIATIVES

Home Composting



Home composting project to reduce the landfilling of biodegradable waste.

SOCIAL INITIATIVES

Public presentations, fairs and exhibitions



ENVIRONMENTAL COMMUNICATION

Valorsul Web page

valorsul

Cientes Colaboradores

A Valorsul | Educação Ambiental | Sustentabilidade | Monitorização do Ambiente | Indicadores

Procurar

Ajude-nos a reciclar mais e melhor

Objecto / Material

- Como separar corretamente as embalagens
- Como separar outros resíduos
- Encontrar um EcoCentro

Linha Azul Valorsul 808 200 135

Sabia que...
as embalagens de plástico usadas podem dar origem à sola do seu próximo par de sapatos?

A Prevenção da Produção de Resíduos.

- 1ª fase de inscrições encerrada.
- Estamos a processar a informação recebida para dar resposta a todas as solicitações.

menos Lixo mais Futuro

Descubra como tratamos os resíduos:

1 2 3 4 5

Triagem de Materiais Recicláveis

Monitorização do Ambiente

Monitorização do Ambiente
Consulte aqui outros estudos na envolvente da Central.

Qualidade do Ar
Conheça a qualidade do ar na vizinhança da Central de Tratamento de RSU.

Notícias Media

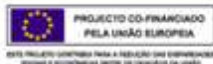
Valorsul apoia atletas da seleção nacional de natação adaptada

A campanha "As Nossas Estrelas" materializou-se na doação, por parte das empresas do Grupo ADP, de 50 ólímpos por cada postal eletrónico de Natal emitido p...

Ir para Notícias

Saiba mais

- Faqs
- RSS Feeds
- SIG
- Contactos
- Links
- Marcar uma visita
- Mediateca
- Sugestões
- Media



Plataforma Eletrónica de Contratação

Conforme o Novo Acordo Ortográfico

VISITING VALORSUL



PERSU 2020

VALORSUL GOALS



PROGRAM	Objective	Target	
Prevention on waste production and dangerousness Revised PPRU	<ul style="list-style-type: none">• 2016• 2020	<ul style="list-style-type: none">• <u>7.6% MSW reduction (2012 reference year)</u>• <u>10% MSW reduction (2012 reference year)</u>	National
Increase the amount and quality of the recyclable package collected	Selective collection (kg/capita.ano)	49	VALORSUL
	Recycle Min (in % of recyclable MSW)	42%	VALORSUL
Biodegradables MSW sent to Landfill	Landfill Max (% de Biodegradable MSW production)	10%	VALORSUL



valorsul

We take care of the environment.



ESTE PROJECTO CONTRIBUI PARA A REDUÇÃO DAS DISPARIDADES
SOCIAIS E ECONÓMICAS ENTRE OS CIDADÃOS DA UNIÃO