

Ambigroup

Waste Management
Dismantling
Recycling



AMBIGROUP SGPS SA is a holding of environmental, waste processing & recycling companies:

Celebrating 40-year operating

Today work force 650 Workers in 8 Recycling Parks

Group offers an integrated waste management and recycling solution.









Ambigroup







Ambigroup companies offer an integrated *loop* of processes and solutions, to increase overall **recycling rate**, from different **waste streams**:

WEEE:

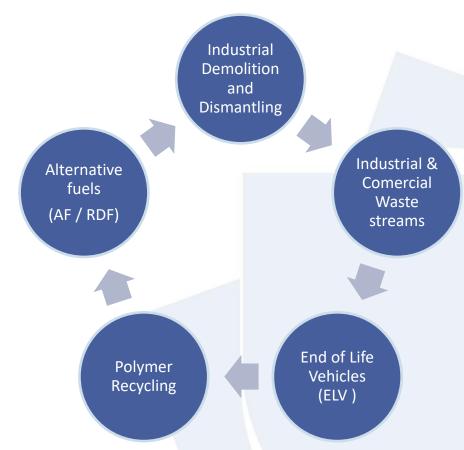
SDA & LDA

Refrigeration Recycling / HAVAC

Metal Recycling:

Ferrous (Fe & Stainless Steel)

Non Ferrous: Al Cu Zn & Alloys





Ambigroup Demolições SA







Ambigroup Demolições SA



Experienced and skilled team

Equipped with "Tools" for each site works:

High Structures Demolition:

Demolition Robot

Onsite Solution:
Aggregates recycling: *From*waste to usable aggregates

Mobile Equipment : preparation for recycling





Ambigroup Residuos SA



Ambigroup Residuos runs six Recycling Parks:

Offers an integrated waste management service.

Non Organic Waste, both from manufacturing production and post consumer.

Overall Commercial solution, both for positive and negative valued materials/wastes.

Provides logistic support to waste handling, recollection and transport.

In the parks, Comercial & Industrial Waste is separated, sorted and sent to Recycling





Ambigroup Residuos SA



Light Non Recyclables with Calorific Valuable material:



Industrial Kiln: Cement kiln Power plants





Ambigroup Reciclagem SA



From Waste to Raw Material Matrix – Raw Material / Recycling Equipment/ End Product

Raw Material

Ferrous Scrap
ELV- Equipment
(Car Train/ Planes)
Fe (food containers)
IBA

Non-ferrous:
Aluminium Scrap
NFe metal
Al containers
WEEE & Polymers

Recycling:
Waste Stream
With low metal
content

Recycling Equipment

Mechanical treatment:

- Pre Shredder
- Heavy Scrap Guillotine
- 3 x Scrap Shredder
- Light fraction separation
- Magnetic Fe separation
- Eddie currant (ECS)
- Induction Sensors
- Dense Media Plant
- X-Ray Transmission Sorting
- Fines Fe and NFe recovery
- Refrigerator Recycling
- WEEE: SDA/LDA

End Products/ Consumers

Ferrous scrap ⇒ Steel mill

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Aluminium ⇒ Aluminium Smelters/ Refiners

Copper and Alloys ⇒ Copper Smelters/ Refiners

Zn, Brass etc. ⇒ Smelters/ Refiners

Plastic Polymers ⇒ Manufacturing

Alternative Fuel ⇒ Cement Kilns



Ambigroup Reciclagem SA Seixal Recycling Park Circular Integrated Recycling Solution



Multi Stream Recycling Area - 150,000 m2





Ambigroup Reciclagem



Primary Shredding Unit: Pre-Shredder+ Shredder + SHF and SLF processing









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Sorting Technologies

Induction Sensor - Dense media separation plant - X-Ray Transmission Recovery of Metal Fines











AmbigroupRefrigeration Equipment and WEEE







Ambigroup Polymers / WEEE / ABS/ HIPS / PP/ PVC

Polymer Processing and Recycling line

WEEE polymers (SDA and LDA)
Refrigerator Polymers
ELV Polymers

Polymers:

PP, HIPS, PP-EPDM, HDPE, ABS, PVC-

Dry separation Plant

Sensor Sorting/ Mechanical

Combination of Sensors (NIR/ VIS/RGB)

Induction Metal Sensor,

Increase Polymer Purity & Quality

Introduce Colour Grade Product

Wet System - Density Separation - Flotation





Ambigroup Renewable Energy / Carbon Footprint



Onsite Solar Power generation nearly 50% total power consumption

Replacing fossil fuel driven by electrical power. 4 material handlers Shredder feeding.

(250,000 lt. Fossil Fuel (diesel) reduction /year)

All shredders/ sorting equipment are electric power driven





Recycling Value

