




ecosinergie



Plant for waste valorisation



Eco Sinergie is a company owned by Ambiente Servizi Spa, a public firm leader in environmental services, created to pursue the policy of containment of waste cycle costs, borne by the citizens and society in general.

This is a very modern company equipped with the latest technological systems for the enhancement of urban and special waste.

The plant, launched in March 2012, covers an area of 23,000 square meters and is currently approved to treat 90,000 tons of waste per year (35,000 urban and 55,000 special waste).

Lines of treatment

On a surface of 5 000 square meters, the building includes 3 production lines with a potential of 30 thousand tons of waste each per year.



LINE 1 Selection of urban and special waste materials collection

The line aims to select the waste consisting of rigid and film plastics, paper and cardboard packaging, containers made of ferrous material.

Process Steps:

- Lifting of waste with hydraulic loader
- Loading on open-bags device
- Transport with electrical tape to the selection room
- Manual selection
- "Iron removal" - separation of ferrous material by a special magnet
- Separation of non-ferrous metals through eddy streams
- Storage in boxes of selected waste
- Pressing

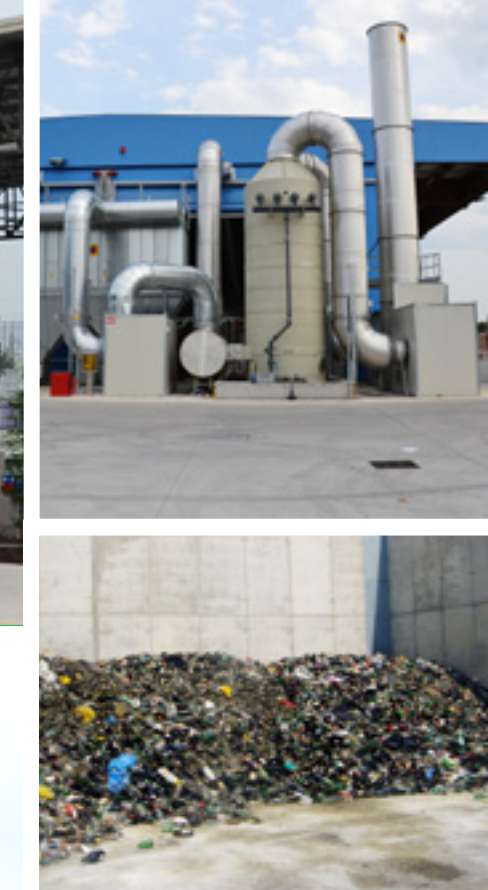


Line 2 CDR production - fuel from waste

The line converts non-recyclable waste (coming directly from collections or from other lines of internal selection) into fuel from waste which is then traded for incineration.

Process Steps:

- Waste loading on the conveyor belt
- First grinding
- "Iron removal" - separation of ferrous material by a special magnet
- Aeraulic separation of "light" / "heavy" fractions
- Iron removal and separation of non-ferrous metals through eddy currents of heavy fractions
- Further grinding of the light fractions
- Storage of finished fuel from waste



LINE 3
Treatment of special waste

The line is composed by a pressing plant (mainly used for paper waste) and a selection line equipped with grind device for documents. The waste treated in this plant line are primarily of non domestic origin.



Plant of dust and odors treatment

The air inside the shed of Eco Sinergie is conveyed to a suitable plant with the aim of treating and suppressing dust and odors produced during the processing phases.

Environmental treatment devices:

- filter
- 2 scrubber in parallel
- Volumetric flow rate 110,000 Nm3 / h

PERFORMANCE

Waste composition leaving the plant. It is important to underline the data relating to waste disposal, reduced to less than 1% of waste input.

| Description | % |
|-------------------------------|------|
| Steel and aluminum cans | 0,4 |
| Wood | 0,5 |
| Ferrous material and steel | 1,0 |
| Plastic (nylon, boxes) | 1,7 |
| Glass | 4,6 |
| Plastic packages | 7,3 |
| Paper and cardboard | 40,3 |
| Waste sent to energy recovery | 43,8 |
| Waste sent to disposal | 0,4 |
| TOTAL | 100% |



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