

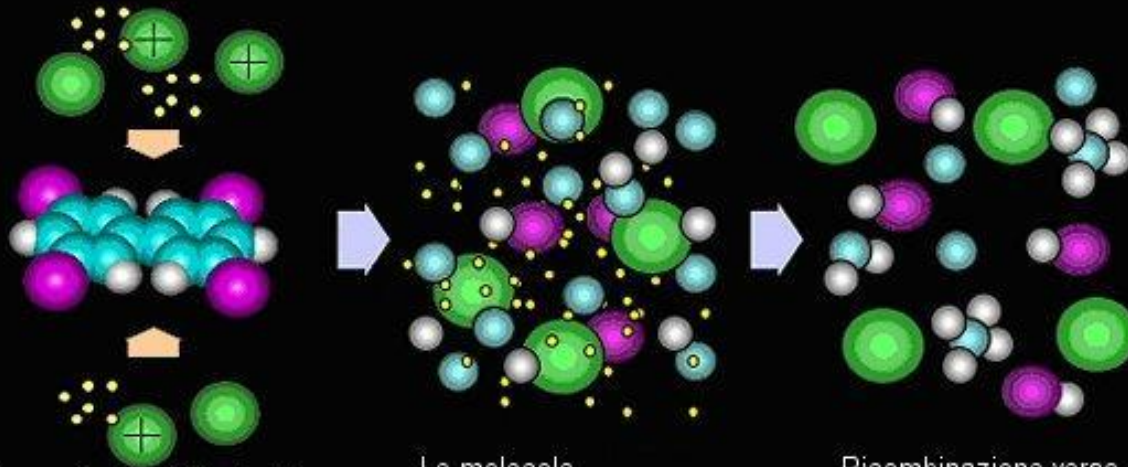


s.r.l.

MECCANICA

ATTREZZATURE E VEICOLI PER L'IGIENE URBANA

TOGETHER TO WIN



Le particelle della struttura reagiscono con il calore

Le molecole sono dissociate in componenti atomici

Ricombinazione verso molecole con struttura semplice



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WE STUDY THE PROBLEMS AND WE PLAN THE SOLUTION

Investigation and environmental research



environmental research

- ✓ Engineers
- ✓ Waste Managers
- ✓ Designers
- ✓ Planners
- ✓ Builders



From the project to the realization



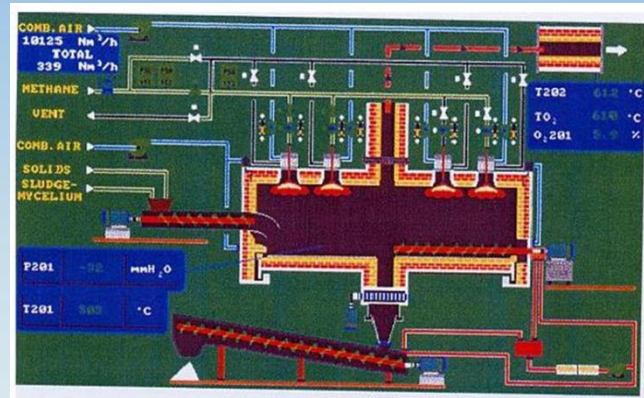
Étude et conception d'unités de traitement des déchets



Production et construction des éléments du process



Assemblage et montage sur site



Mise en service



Supervision



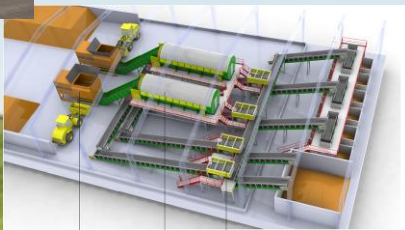
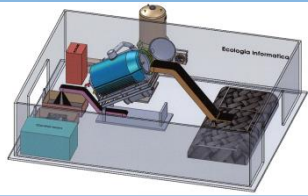
Electrification et automatisé



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What we know to do



■ 1) Territory Study

■ 2) Planning the waste collection service

■ 3) Build waste collection company starting the Manager organisation charte to the last worker, including supplier support and spare parts and reparaie shop assistance

■ 4) Build waste trucks containers and Tools

■ 5) Projecting building and managing Waste Treatment Plants for preparation or selection

■ 6) Compost plant with biogas production

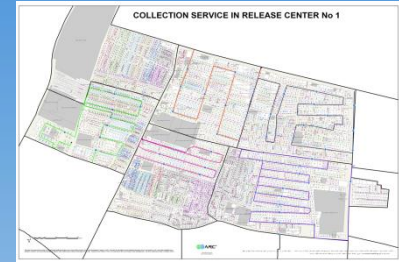
■ 7) Hospital treatment plant

■ 8) Tires oil transformer

■ 9) Landfill project and realization

■ 10) Press Bailing and wrapping system machinery

■ 11) Waste to energy plant



• About Us

SOCRAM strongly wanted answer to his clients with a complete environmental project from A to Z . SOCRAM collaborates with 8 leading companies being to provide waste planning, management, building and construction of technologic plant able all together to answer to the complete Life Cycle Assessment of the environmental waste word. This means consolidating SOCRAM with all his partners in a strong international soul, purposeful but attentive to the demands, needs and experiences of other realities. More recently, in full consistency with this strategic line, the scope of the traditional business of the company, which has always been linked to the production of innovative products for the collection of municipal solid waste, was integrated with other products and other strategic objectives. All this remains, however, within the “ecological” context ensuring the company’s ability to keep pace with the evolution of a market in continuous becoming.



- **Mission**

- Research and Innovation for a better world

- Our compromise in ecology: ecology without compromise. SOCRAM mission is expressed in a constant research for innovative and technological solutions applied to the ecological sphere, designed and structured to improve the quality of life of people. We are interested to all that can better the world we live in and we believe that to reach this goal, everyone should do their part first, small or big it is. We want to give the correct value even to small things: a single piece of paper left on the street, a cleaner breath of air, the deafening silence of the free growing up of a tree. Everything that can complement this aim is therefore of our interest and object of our attention: collection, disposal and transportation of waste, biological waste treatment, environmentally friendly transportation of people, purification of air ...



- **The Ecological Integrated System**

- From integrated systems for waste collection to the ecological integrated system Historically, the brand SOCRAM has always proposed the idea of an integrated “system” targeted to the complete waste management cycle starting with the engineer study in order to plan the necessary to proceed with collection, sweeping, transport system, treatment plant, valorization material plant, waste to energy, beautification of old landfill, new landfill construction and so on. The evolution into SOCRAM directed the company, more ambitiously, towards the Ecological Integrated System, where traditional range of products designed for the collection of municipal solid waste (while always playing a key role in the company) is completed with new proposals in a more generic ecological field. Starting from a the precise choice of business of product diversification, the company evolved creating a new philosophy of approach where the new range includes a partnership with the leader companies in each specific field of the various branch of the environmental world.



FROM PROBLEM TO SOLUTION



MUNICIPAL SOLID WASTE
From A to Z

Experience and Innovation dedicated to the Environment

■ Research & design



■ Production



■ Workshop



- 150 year anniversary
- 30 years of experience in waste handling





AUTOMATIC BALING PRESSES FOR RECYCLABLE MATERIALS AND WASTE

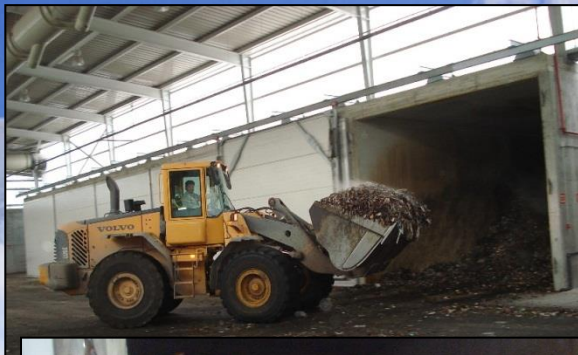
More than 1000 installations in the whole world

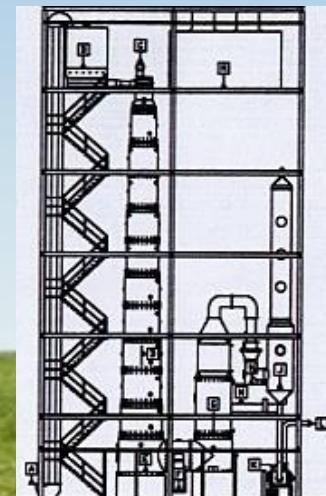
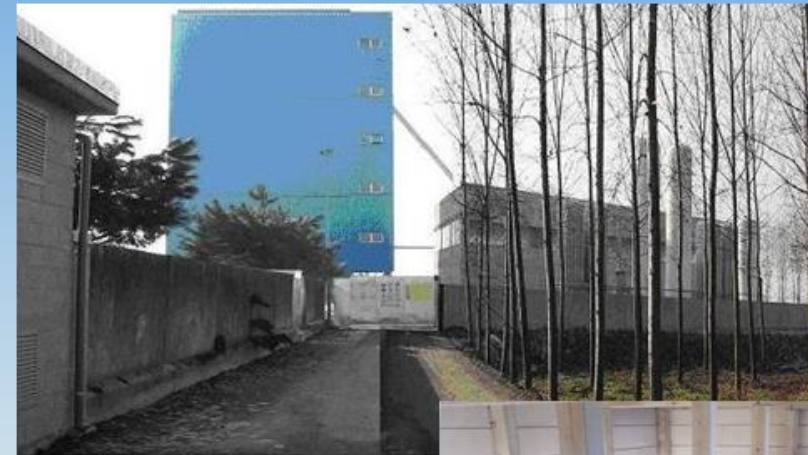
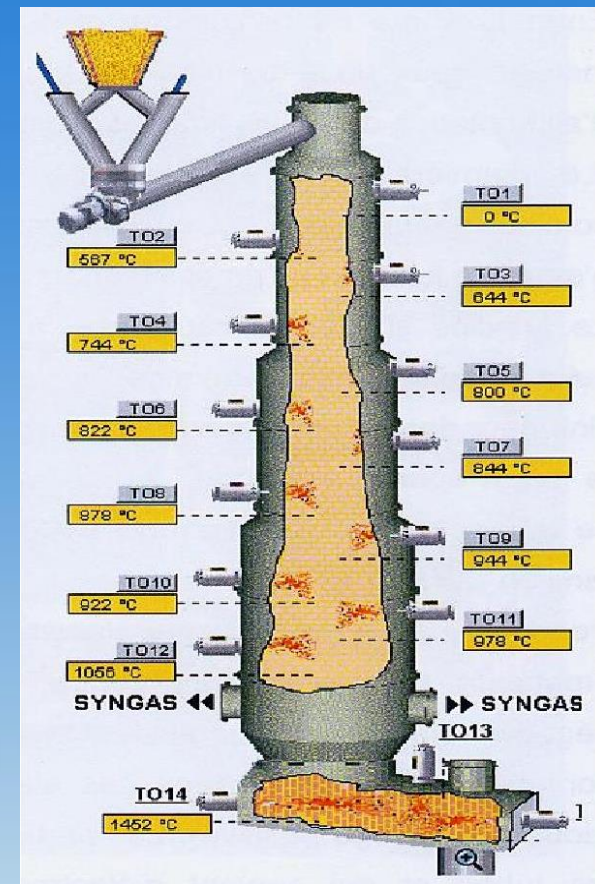


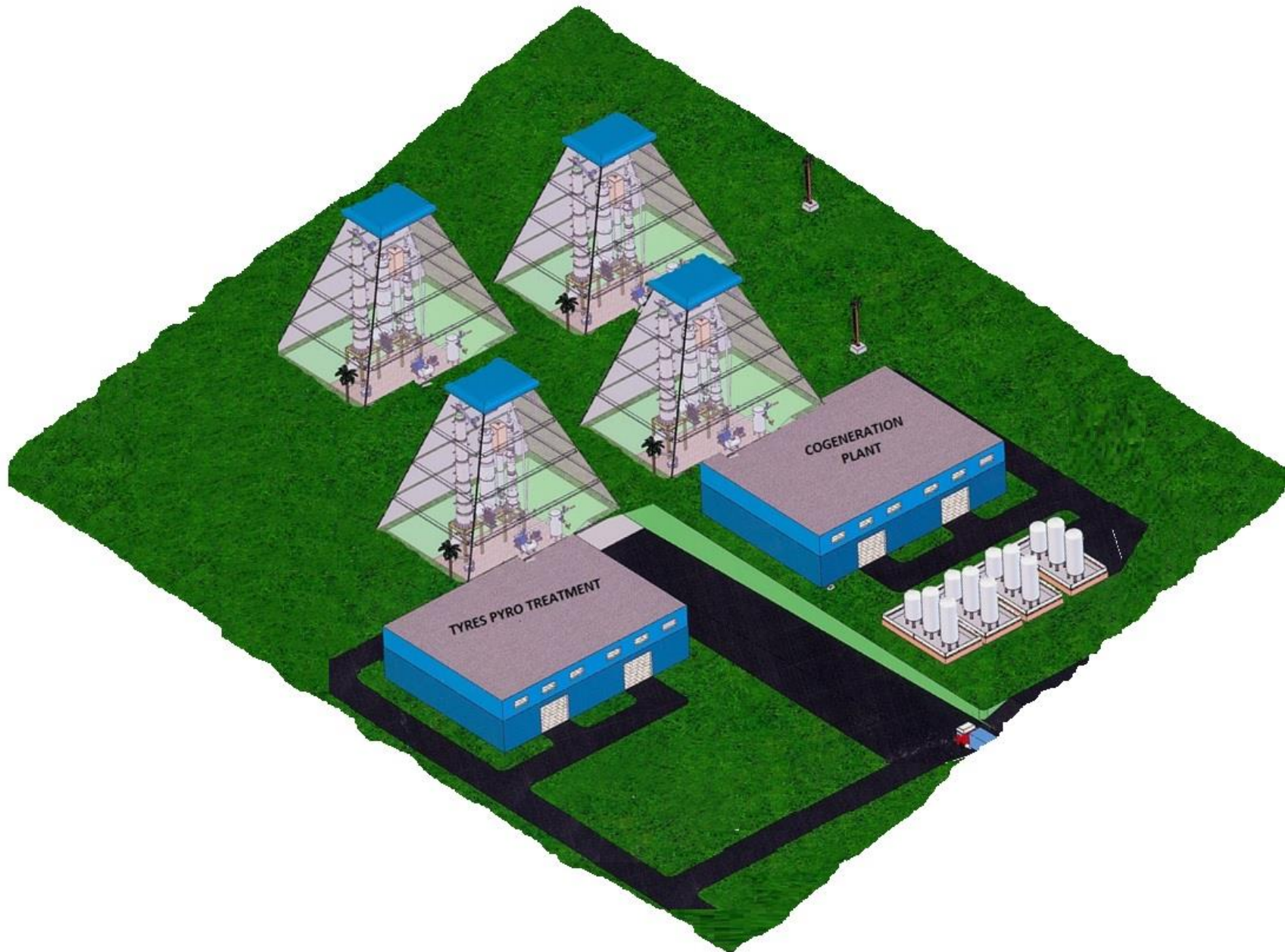
- Composting
- Bio-drying
- Air treatment / odour reduction systems
- Wet and dry anaerobic digestion



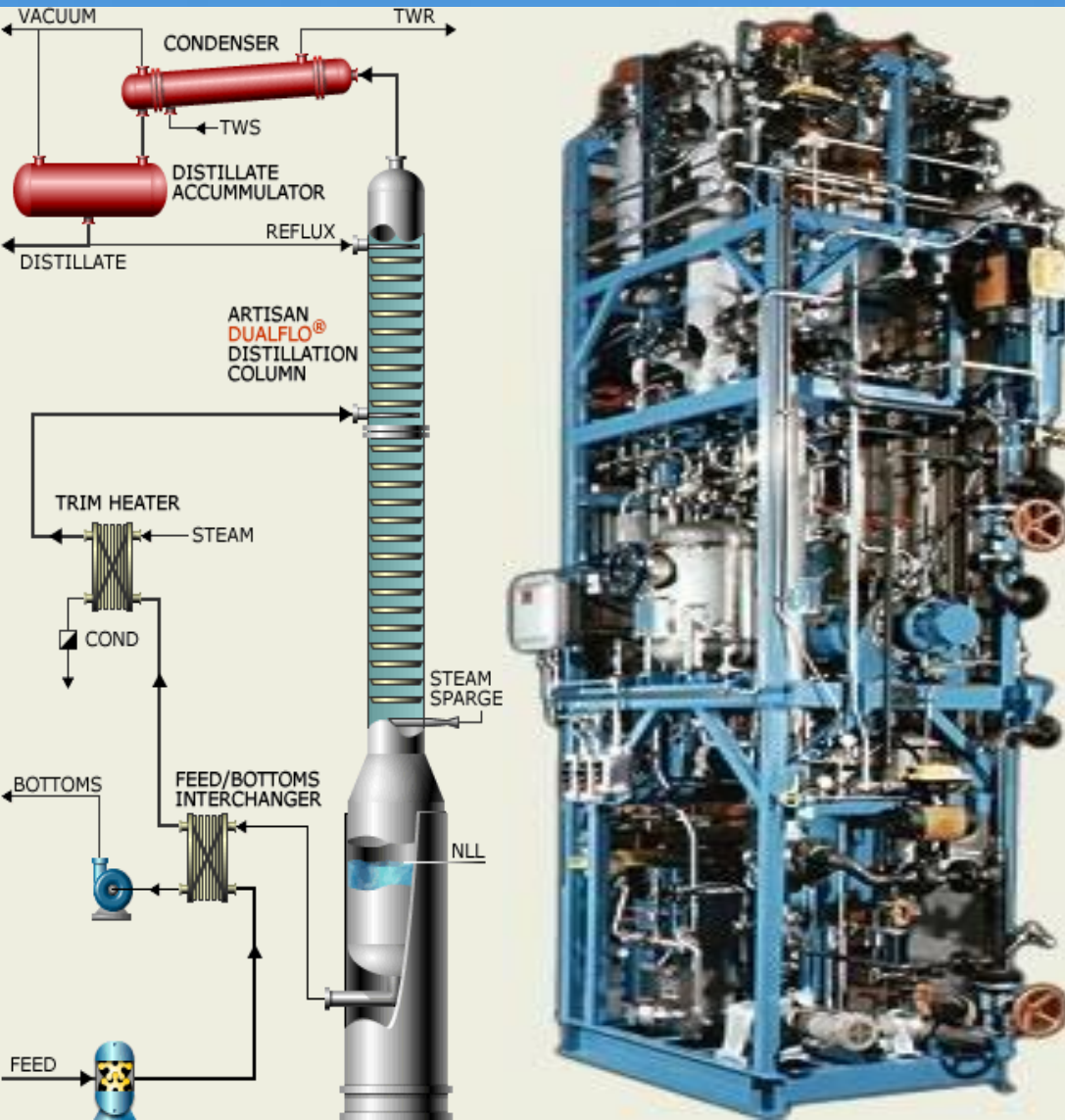
COMPOST







THERMAL DESALTER





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SERVICES COMPANY WASTE MANAGEMENT



WASTE COLLECTION & CITY CLEANING



WASTE TREATMENT



TRANSFER STATIONS



SANITARY LANDFILLS



Founded in 1970, SOCRAM is an international provider of environmental waste management services and a recognized leader in its domain with a proven track record for achieving the highest standards of excellence. We deliver innovative and environmentally responsible solutions to governments, industries, and businesses.

SOCRAM offers comprehensive and integrated solid waste management services including but not limited to:

- * Solid Waste Collection & Disposal
- * City Cleansing
- * Design, Construction and Operation of Transfer Stations
- * Design, Construction and Operation of Sorting and Composting Plants
- * Design, Construction and Operation of Sanitary Landfills
- * Siting and environmental permitting and studies





CLOSED LOOP

SOF



INERTS



METALS



PLASTICS



RDF

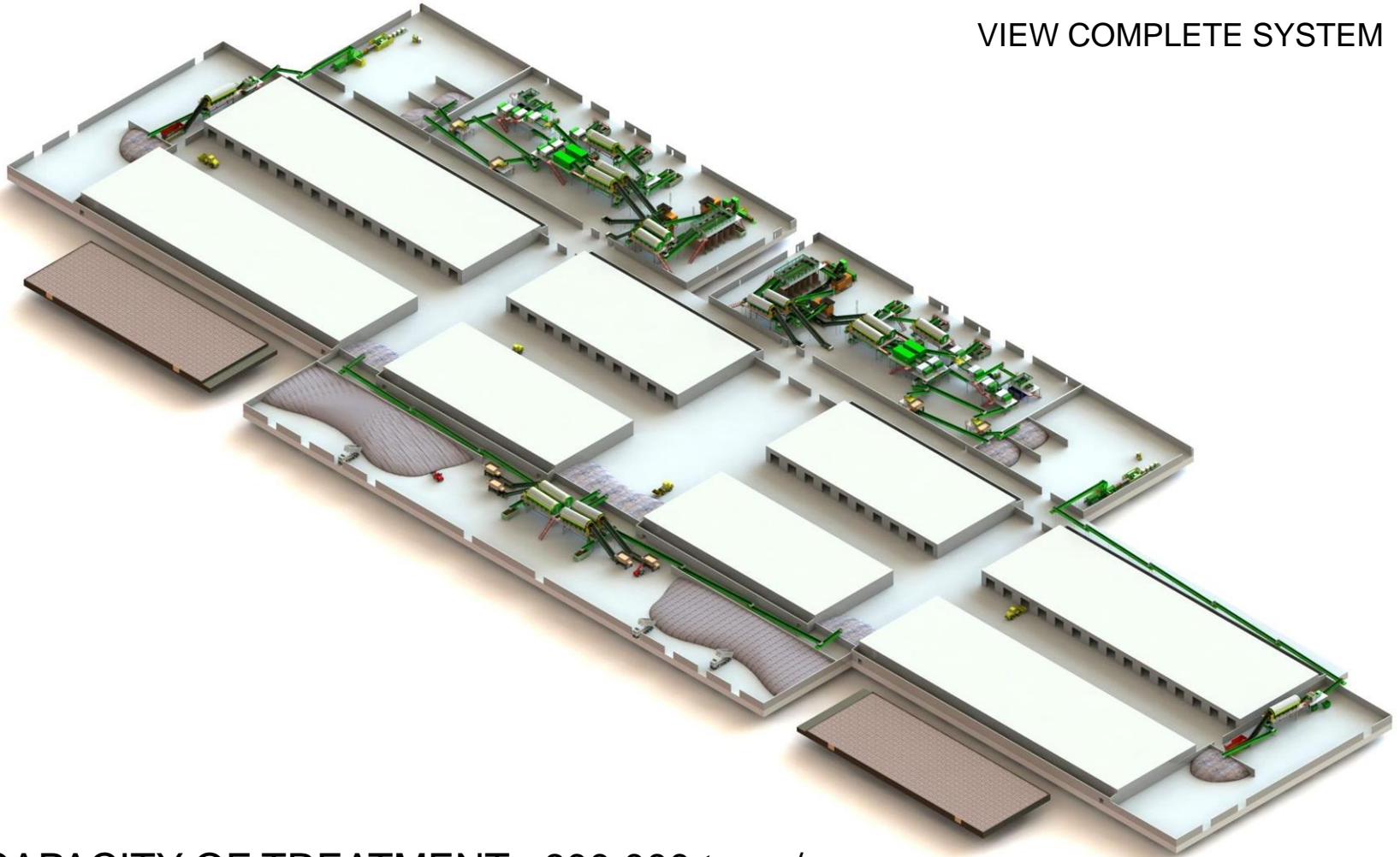


DRY AND WET FRACTION SORTING
RECOVERY RECYCLABLES FRACTION – PAPER, PLASTIC, METALS
TREATMENT OF THE RESIDUAL DRY FRACTION FOR RDF PRODUCTION
BIOLOGICAL TREATMENT OF THE WET FRACTION
REFINING STABILISED ORGANIC FRACTION (SOF)

LAY-OUT

MUNICIPAL SOLID WASTE TREATMENT UNIT

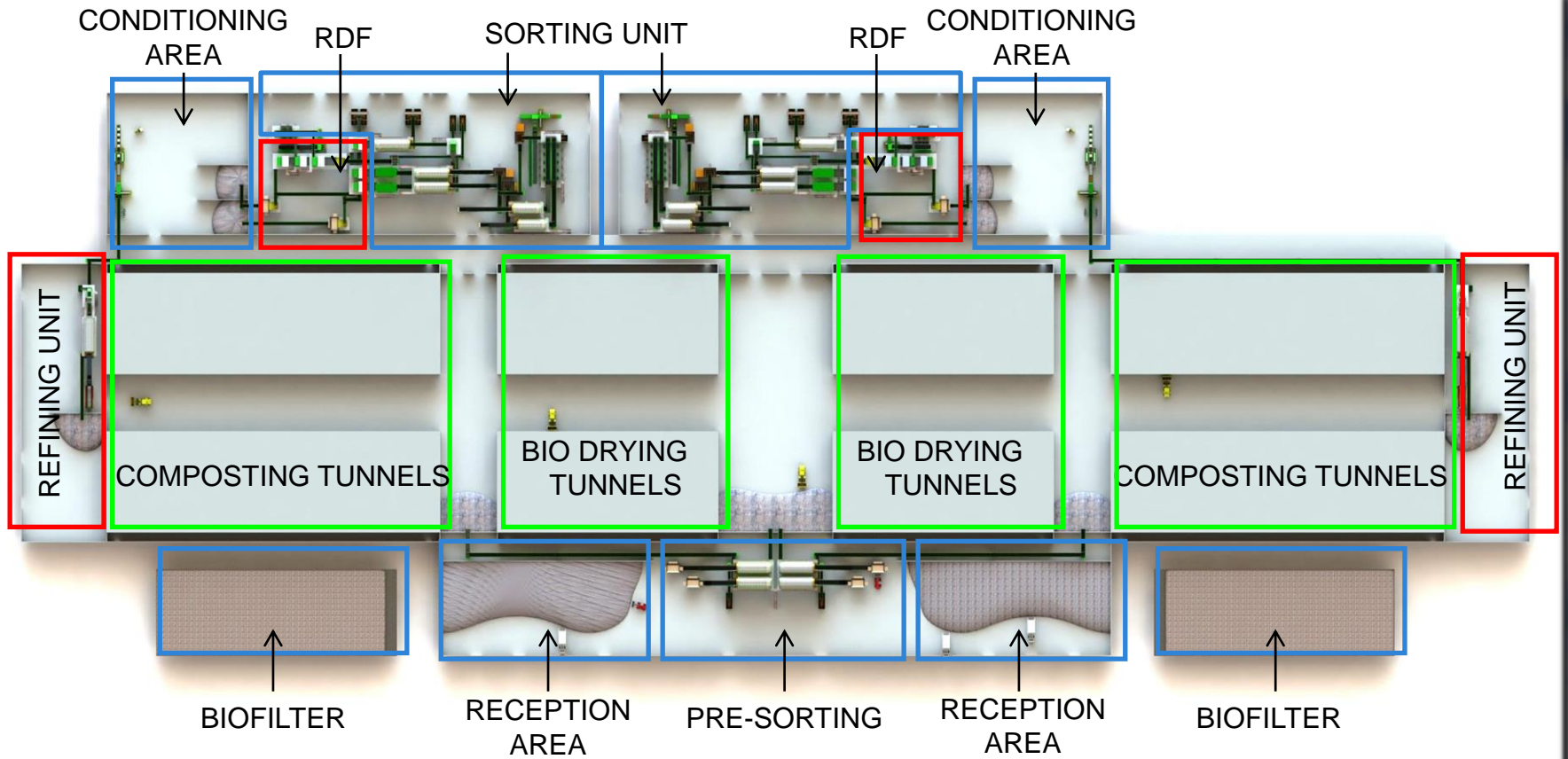
VIEW COMPLETE SYSTEM



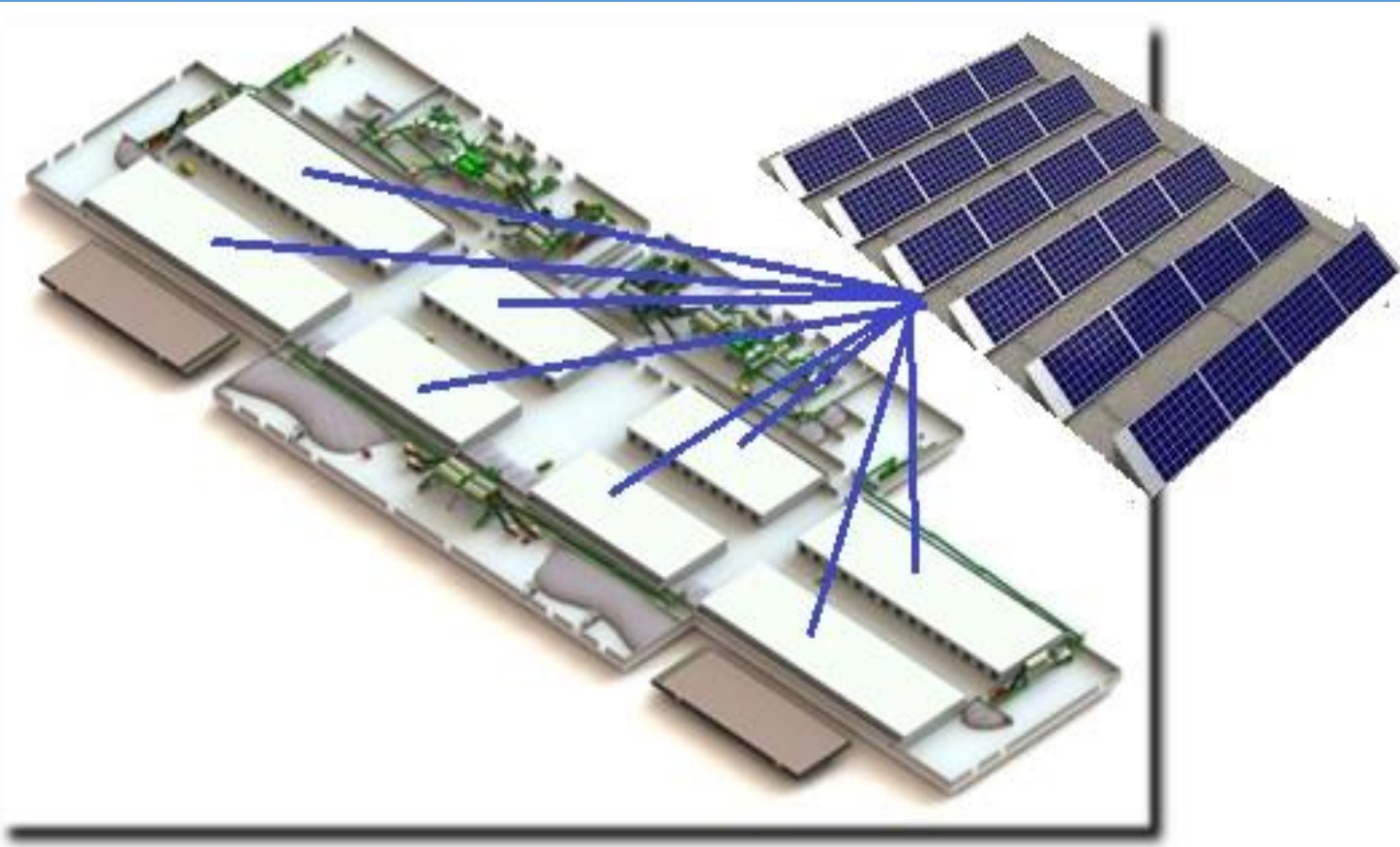
CAPACITY OF TREATMENT : 600 000 tons / year

LAY-OUT

MUNICIPAL SOLID WASTE TREATMENT UNIT



Solar Panels as Cogeneration Plant UP composting roof



SOCRAM

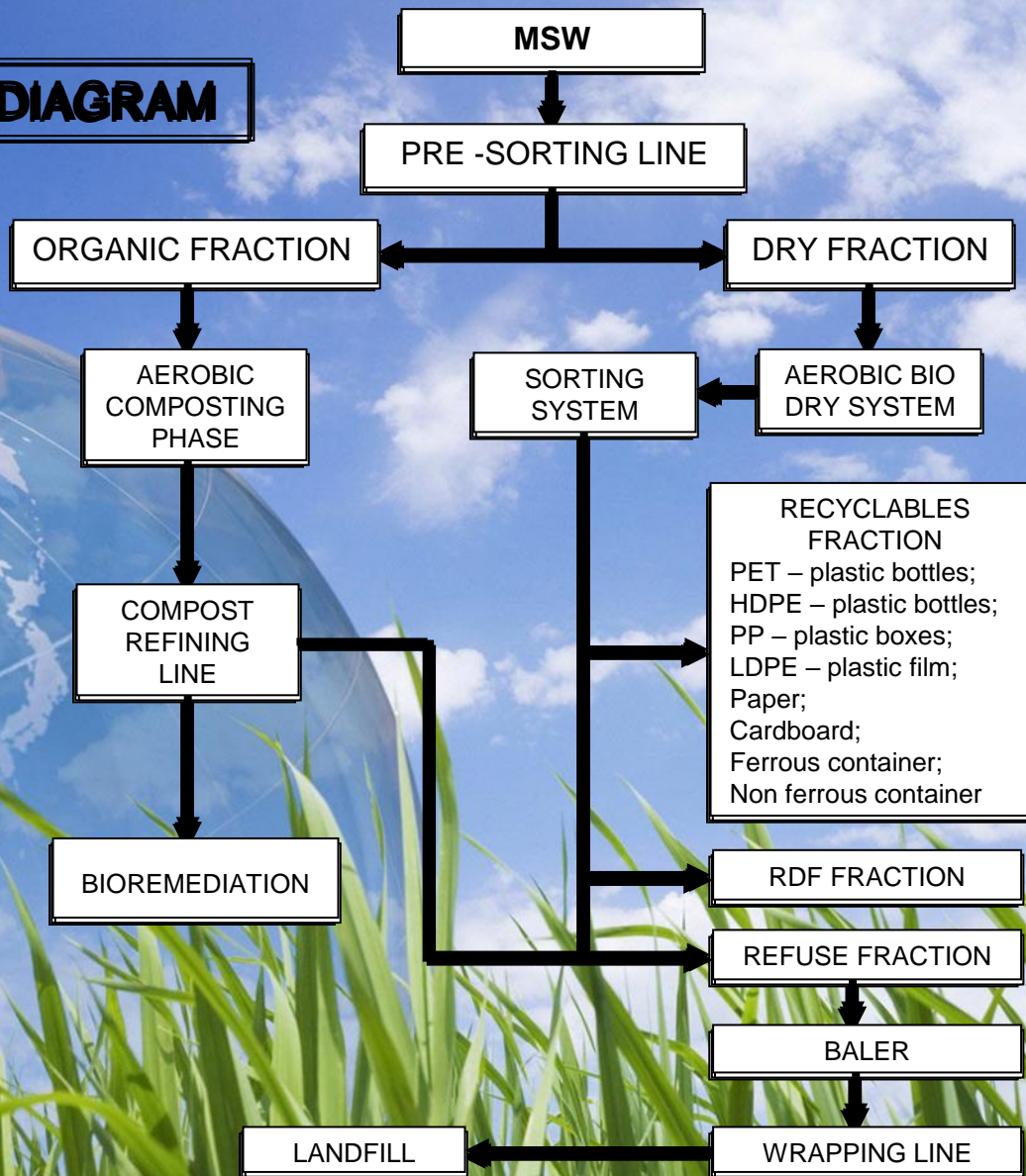
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LAY-OUT

MUNICIPAL SOLID WASTE TREATMENT UNIT

FLOW DIAGRAM



LAY-OUT

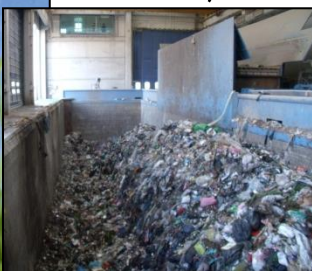
MUNICIPAL SOLID WASTE TREATMENT UNIT

THE PLANT

MSW RECEPTION AREA AND PRE-SORTING

DRUM SCREEN

MAGNETIC
SEPARATOR



STORAGE



PRE-SHREDDER

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LAY-OUT

MUNICIPAL SOLID WASTE TREATMENT UNIT

THE PLANT
 BIO-TREATMENT AND REFINING

COMPOSTING TUNNELS



DRUM SCREEN



MAGNETIC SEPARATOR



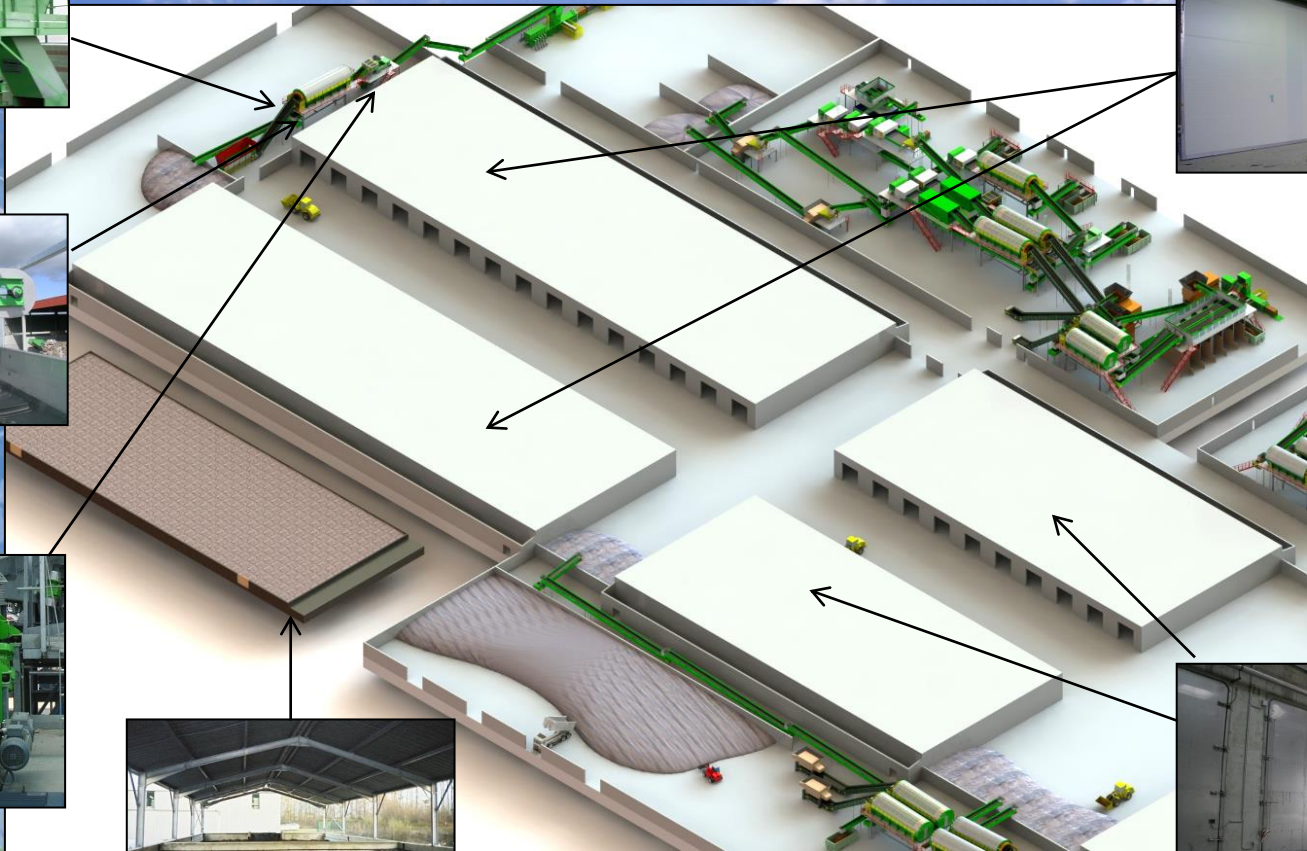
NON FERROUS SEPARATOR



BIOFILTER



BIO DRYING TUNNELS



LAY-OUT

MUNICIPAL SOLID WASTE TREATMENT UNIT

THE PLANT

SORTING UNIT AND RDF PRODUCTION



OPTICAL SEPARATOR



RDF SHREDDER



BALLISTIC SEPARATOR



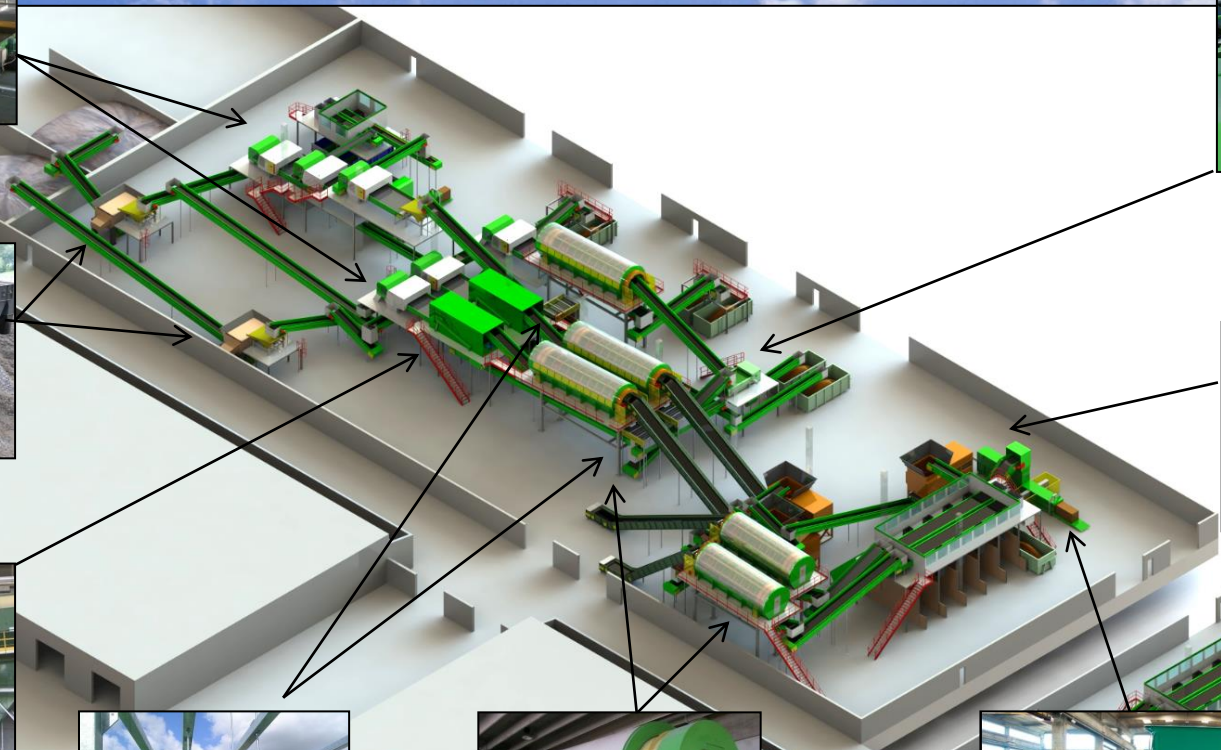
MAGNETIC SEPARATOR



DRUM SCREEN



BALER



NON FERROUS SEPARATOR



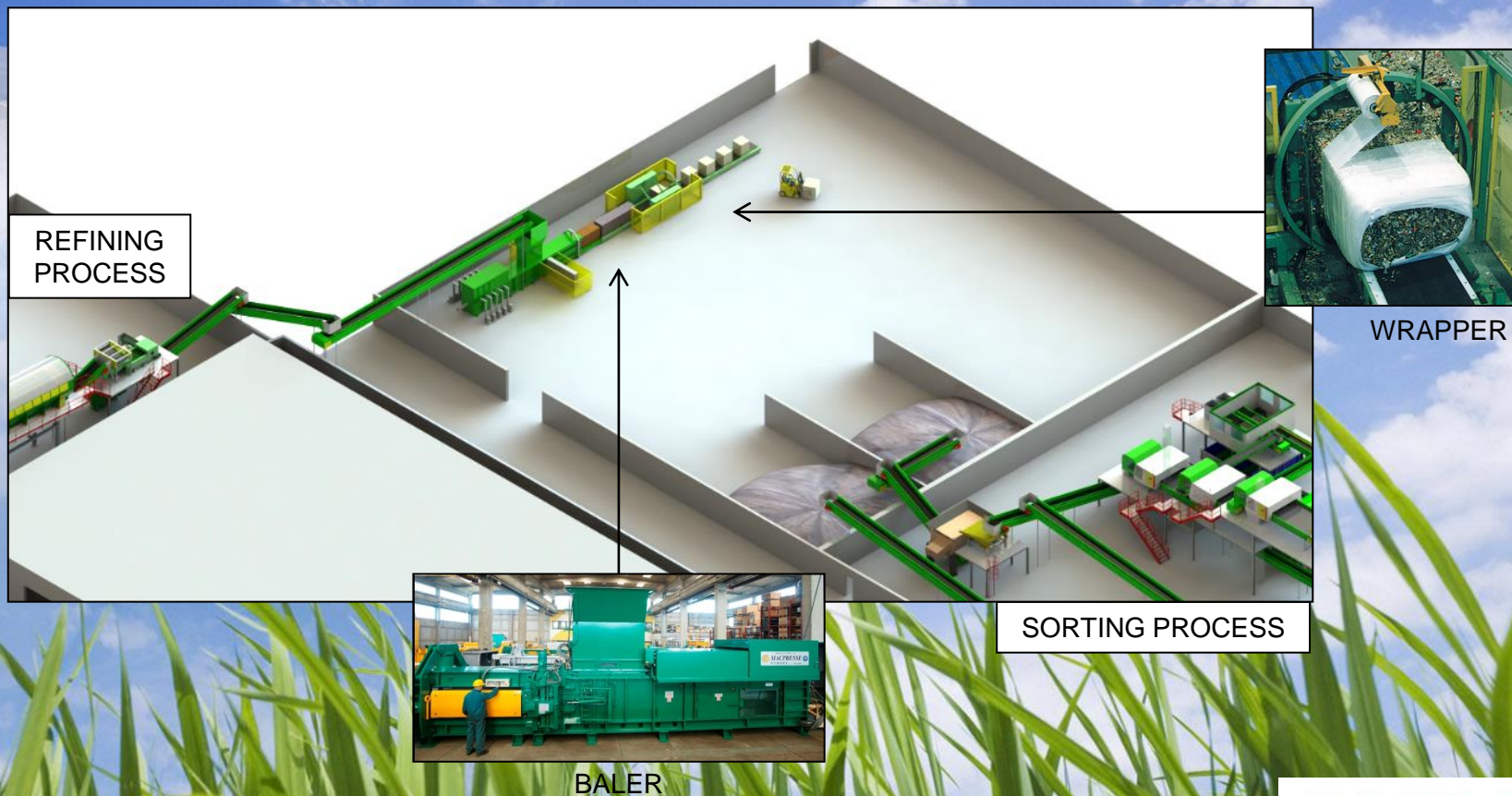
SHREDDER

LAY-OUT

MUNICIPAL SOLID WASTE TREATMENT UNIT

THE PLANT

CONDITIONING AND STORAGE AREA



REFINING
PROCESS

WRAPPER

SORTING PROCESS

BALER

SOCRAM

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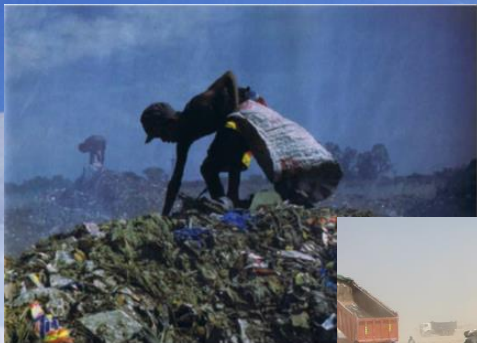
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FROM PROBLEM TO SOLUTION

MUNICIPAL SOLID WASTE TREATMENT UNIT

ADVANTAGE

TODAY



More than 400 people will be employed to work in better conditions and safety



TOMORROW



Better condition of the neighborhood environment and landfill condition



SOCRAM

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FROM PROBLEM TO SOLUTION

MUNICIPAL SOLID WASTE TREATMENT UNIT

ADVANTAGE

TODAY

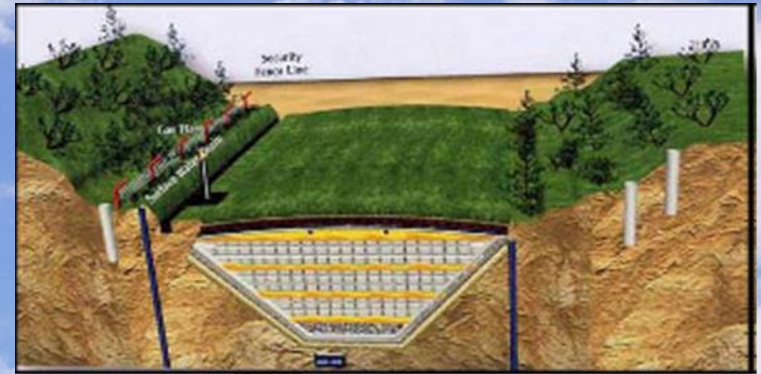


Environment protection

No leachate and smell means no health and water contamination and better quality of life



TOMORROW



MECCANICA

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FROM PROBLEM TO SOLUTION

MUNICIPALITY SOLID WASTE TREATMENT UNIT

ADVANTAGE

TODAY

TOMORROW



Recovery and recycling of the materials, organic treatment and RDF production means low material to be disposed into the landfill, and anyway will be inerts materials.



FEW MATERIAL RECOVERED



SOME SAMPLES



LDPE FILM



PET

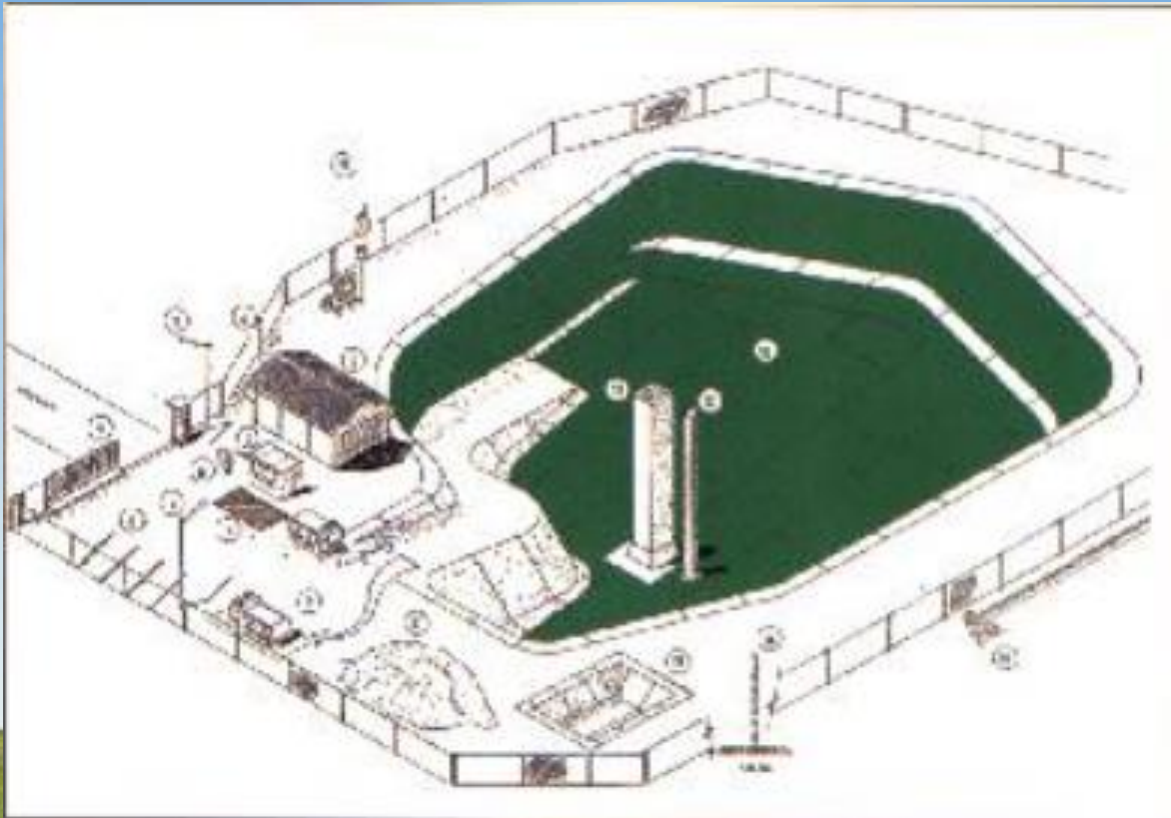


Material to be disposed



RDF (refuse derivated fuel)

ABOUT PROJECT BUILD AND MANGE SANITARY LANDFILL



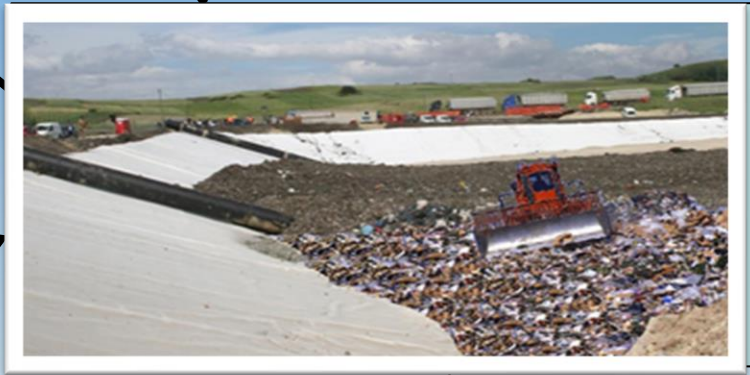


SOGRAM

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SAFE AND HEALTH LEVEL WITH TRADITIONAL SYSTEM



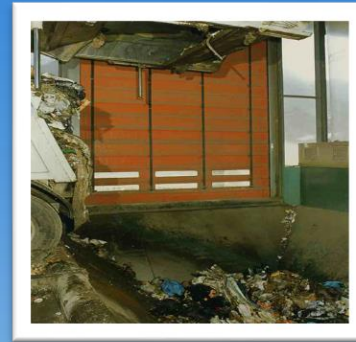
**ECOLOGICAL
DISASTER**







SAFE AND HEALTH



FROM PROBLEM TO SOLUTION

MUNICIPALITY SOLID WASTE TREATMENT UNIT

OUR EXPERIENCE



YOUR FUTURE



THANK YOU