

ENERGETIC INDUSTRY

Recycling, transformation and production of fuels from plastics.

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WHAT IS THE PROJECT ABOUT

The project consists of the manufacture and assembly of a solid waste processing plant with capacity for 252 thousand tons per year, capable of transforming plastics into fuels (gasoline, diesel, natural gas, jet fuel, etc.), transform organic waste into fertilizers of high quality, preparation of raw materials such as paper pulp, metal, glass powder, tires used in asphalt and soils, construction waste in mixed mixed or gabions, hospital and biological waste destroyed in closed incineration systems without discharges or gases To the environment and also with gas generation you can also manufacture fertilizers such as ammonium nitrate.

This plant will use the residue materials that so far only bury in sanitary landfills and relieve the load of the latter.

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What is the product

What is plastic fuel

The plastic is a polymer consisting of hydrocarbon chains (CH), these chains are the fundamental blocks of oil, since the fundamental blocks are also the bases of the fuels we know (gasoline, diesel, kerosene, jetfuel, etc.), when we break down those plastics through pyrolysis we are reconfiguring those hydrocarbon chains in new compounds, when we go through our process we can turn them into fuels, thus giving a new use to a plastic that would normally be thrown away and would take hundreds of years to decompose.

This fuel is exactly the same as that is obtained directly from oil but at a fraction of its price, thus giving a higher profitability in the project.

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OUR PROJECT

This project has as its main goal the use of recyclable resources that are discarded in the garbage and consists of a vertical processing chain.

Reception.

Reception of all recyclable material in our facilities, metal, paper, plastic, glass and organic elements (food remains)

Classification.

Separation of each raw material for transformation, recovery or sale.

Transformation.

Through different processes, give new useful life to each compound, fuel plastic, organic material in composting and fertilizer, pulp paper, powdered glass for founding and metal for sale.

Commercialization.

Sale of final products and raw materials for industry, energy sector, construction and agrarian.

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PIROLIS

Pyrolysis is a technique by which it is possible to remedy part of the problem, since it allows recovering energy and products in the form of liquid and gaseous fuel through the use of discarded plastics. You can also use the gas generated to make fertilizers or to supply the plant.



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Composting

It is a technique by which the necessary conditions for which from organic waste decomposer organisms manufacture a fertilizer of high quality are created.



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With this composting of high nutritional value we can help with the reforestation of semi -desert areas, since it continues high amounts of phosphorus, nitrogen, carbon, etc.



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Recycled paper pulp

The paper pulp or extruded cellulose is a 100% recycled product, 100% recyclable and biodegradable. Born from paper and cardboard recovery through recovery processes.



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Recycled glass

The recycling chain of the glass is actually a circle in which the containers return to life infinite times. Unlike what happens with other components, glass can be recycled in its entirety, 100%. It is a perfect example of sustainability and circular economy.



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USED TIRES

Through a cryogenic crushing process we can separate the rubber from the metal from the tires and textiles and crush it to turn it into raw material for asphalt, fillings, soundproofing, non-slip floors, etc..



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This rubber material also serves the pyrolysis process, for modified asphalt and to make non-slip soils with impact absorption properties.

We can provide soil units that can be used in cyclorruatas, playgrounds and others.



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Metals

Through an automated metal separation process we can separate the different types of material, copper, steel, aluminum, etc. compact them and market them as raw material to give them a new use.



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Hospital and biological waste

Through double chamber incineration equipment for the correct waste of biological and hospitable material, we can give proper management and total destruction of these materials without emitting gases of any kind.



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Construction waste

Through a grinding process we can crush concrete, brick, tiles and other construction materials and use them as an aggregate in new mixtures, or as a gabion component. These aggregates, bases and sub-bases are reimbursed in the construction process. The metal that is extracted from this type of waste goes through the metal use process.



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Innovation Laboratory

In the construction of the plant a laboratory of last technology will be installed that will be used for quality control, research and development of new product and processes; and as an innovation and technology center for the use of academics, students and companies that wish to do research and development of their development.



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Filling recovery

As part of the project, the recovery of the landfill is planned, with the extraction of the present garbage and subsequent transformation according to its composition. This process can take up to 5 years.



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As a complement to the recovery of the landfill, transformation is placed into a park, whether playful, educational, aquatic or whatever the destination that is decided to give. This with the same resources obtained from the use of garbage that previously occupied this space.



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CORPORATE SOCIAL RESPONSIBILITY

As part of our social responsibility program, we allocate a part of the investments and future profits to bring professionals who educate and raise awareness among communities to recycle and separate from the source, educating them in the correct provision of garbage and identify recyclable products and not Recyclable.

We also plan to launch an economic incentive plan for the most vulnerable communities that implement the recycling program, thus helping not only with education and awareness; If not also, with financial and social help.

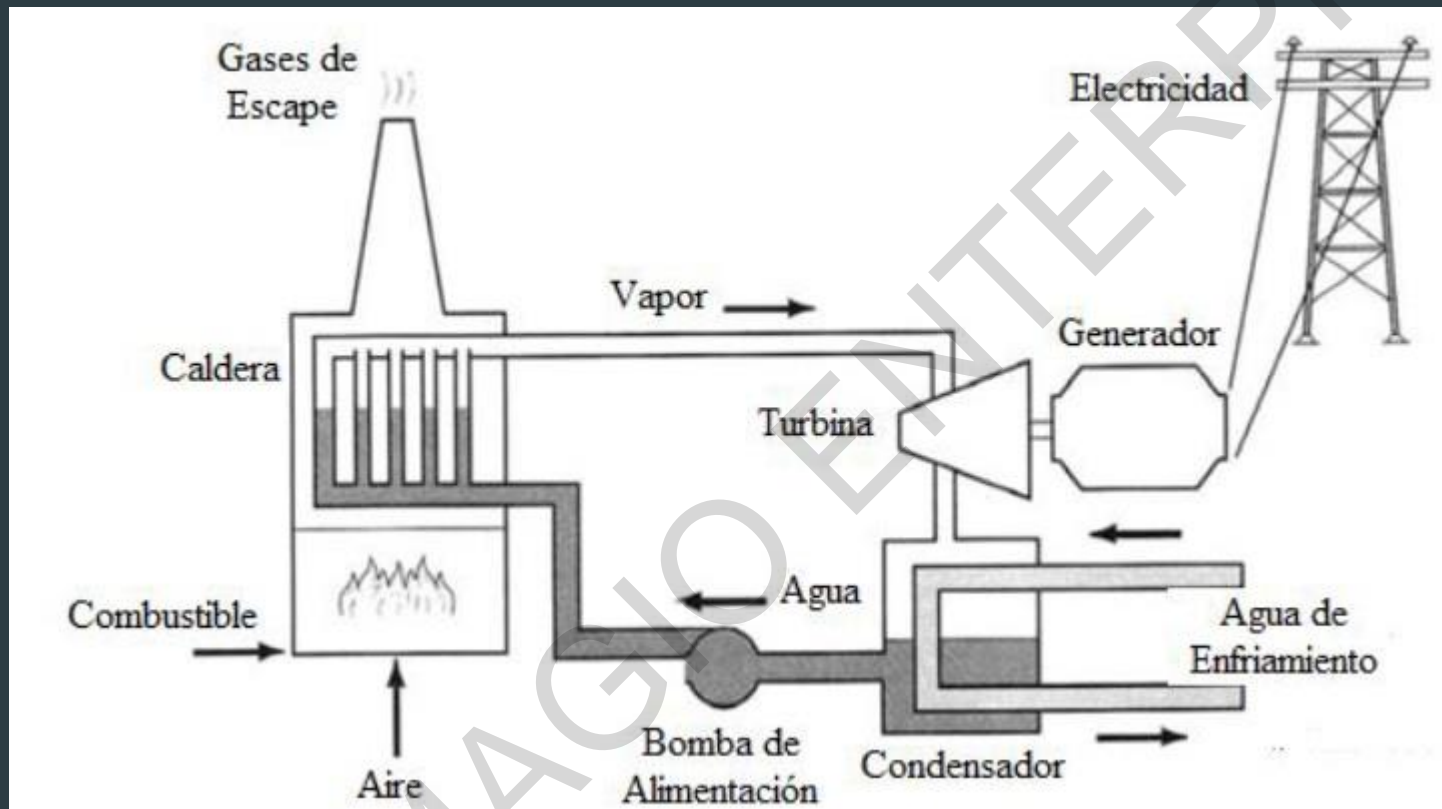
We want our company to be a reference not only for the use of garbage, but also, of education and recycling education and new technologies.

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In addition to this, with the generation of energy from the natural gas produced by our pyrolysis plant we can give free electricity to some four hundred (400) homes that are in the immediate vicinity of the plant, this number can be raised as production rises .



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