



Mor Energy is a subsidiary of ELMOR group and Co-Energy company.

Our main focus is transforming organic waste to energy based on Pyrolysis and Gasification solutions, Variety of used materials like plastic waste, pruned plants waste and municipalities unsorted waste.

Plant outcome - electricity, diesel, heat or cooling.

EL-MOR was founded in 1967, is a leader in implementing large and complex energy, electricity and air-conditioning projects in a variety of fields: power plants, renewable and solar energy, industry, telecom, high-tech, commercial and public buildings, military and defense facilities, electrical and telecom infrastructure, and street lighting.

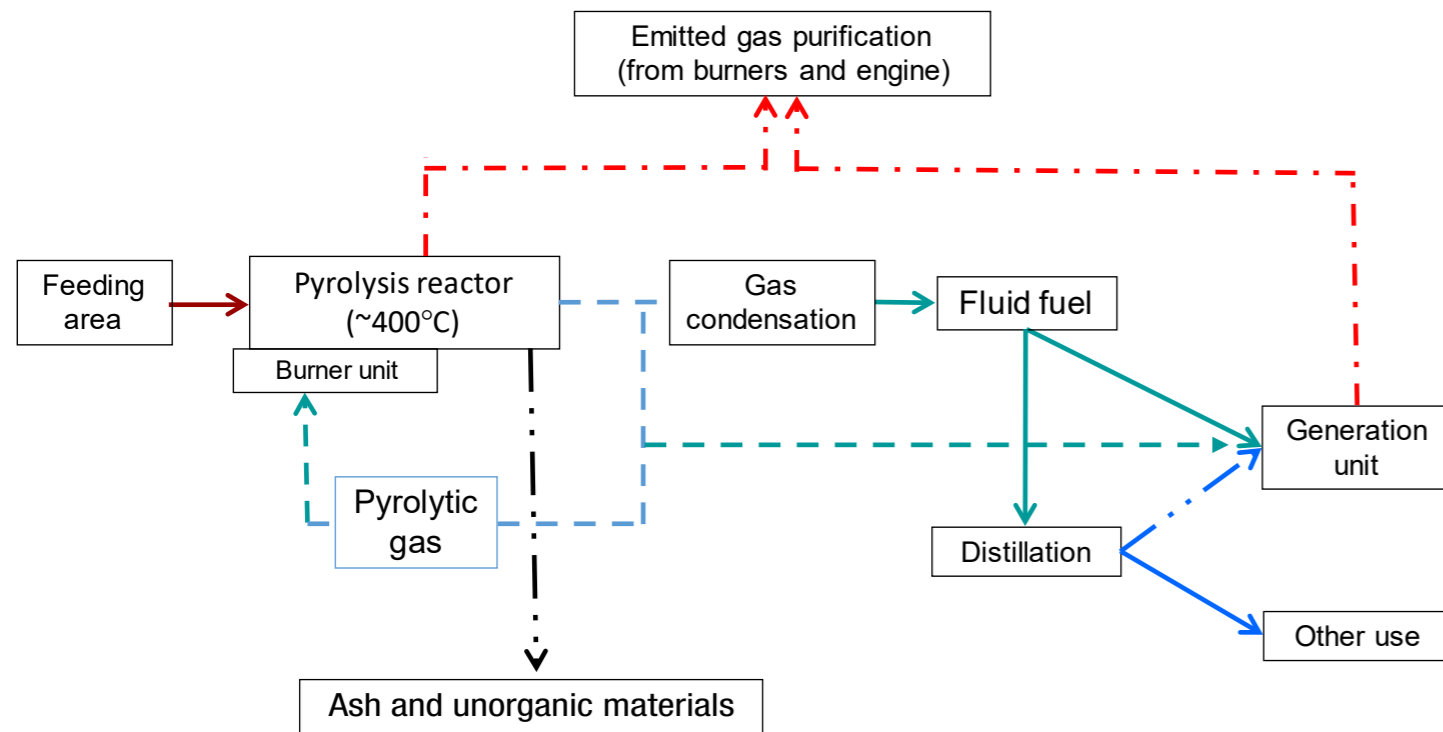
The company is traded on the Tel Aviv Stock Exchange and is part of the Rapac group – a public company that deals with energy, infrastructure and communications through a number of subsidiaries.

Co-Energy Established in 2014, develops and distributes Waste to Energy solutions.

System General description

- Collection of waste for process (without storage)
- Shredding the waste and mechanically separating wet outcomes.
- Conversion organic waste into gas by using the Pyrolysis process.
- Condensation of the Pyrolytic gas into combustible liquid \ Oil.
- Distillation procedure of the combustion fluid into fuel, diesel or gasoline.
- Storage of fuel in a container and generate electricity by a gen-set unit.
- Filtration of gases emitted according to environmental standards.
- Treatment of leachates before going down to the wastewater system.

System Block Diagram



Main Characteristics

Economical - High Efficiency achievement

Financial Advantages

- Energy Restoration
- Saving off-site transportation
- Saving gate fees

Continuity - Production, Supply of energy 24/7 even without fluent waste income.

Efficiency - Best possible usage of produced heat created during the process.

Control and Monitoring - SCADA Overall system sensors connection to achieve proper process diagnostic.

Potential Consumers - End users such as: Municipalities, Recycling Plants, Big Commercial Centers, Resorts, Etc.

Plant Outcome

Main Plant outcome:

Pyrolytic gas condensed into pyrolytic fuel or refined diesel.

Residues (collected in a separate container and evacuated): Components that are not organic material (glass, iron, etc.)

Ash in the amount of about 5% of the dry organic material.

Emissions (gases):

The system has two sources of gas emissions: From the burners heat the waste at the beginning of the process. During electricity production from exhaust pipe of the Generator engine.

The emissions sources gathered into special filtration system. The emissions are according directive 2014/68/EU standards.

Trash to treasure

- **Safe** - The system prevents exhaust gas from going back to the reactor. Thus unnecessary accident can be avoided.
- **Efficiency** - The system includes additional features which improve the oil yield efficiency.
- **Recycles energy** of waste plastics into **usable fuel**.
- **Low operational costs**; no supplementary external fuel supply for the system operation, it's significant **reduction of running costs**.

Summary

- Offers **renewable** energy source.
- **Eliminates hazards** of land pollution by waste plastic.
- The end products can be used for **generating electricity**.
- Can **serve as heating material** in variety of processes.
- Has **huge processing capacity** as compared to the batch type plants.
- **Fully automatic** as it includes its own feeding and discharge system where the plant does not need to be stopped.
- **Green Concept** for better life Awareness.

Commercial Transportable Plant



Commercial Pyrolysis unit ready



Pyrolysis container transported



Pyrolysis boiler in production