



Waste to REENERGY Technologies

Waste to REENERGY Technologies from TRENERG

Waste turned into Renewable Energy by Trenerg MP Technology

The application of green power fuel or green gas technologies provides a solution where the input materials are WASTE and WASTEWATER SLUDGE and by releasing and re-using the energy in them we can generate electric energy in a totally environment friendly way.

Harmful and biological waste materials released into the environment are placed into a closed, dump area, but their further processing is not significant. These dumps keep taking up more and more space and reducing the size of habitable land.

This results in the reduction of agricultural land areas, the pollution of soil and subsoil waters while by employing the appropriate technology we can change the volume, consistency and the environmentally important chemical structure of it and further than this we can also use it as an energy source.

Compared to traditional factories Reenergy technologies is 4-5 times more efficient, and still it doesn't have an impact on the environment. The TRENERG systems is totally closed, even the remaining ash can be used as construction material or road bed fill.

The TRENERG systems produces energy for its own operation as well, so this way it can operate independently.

Other energy production systems are greatly and extremely dangerous to the environment and ecological systems – all that can be avoided by the Reenergy waste disposal factory.

This makes the aim of the project obvious:

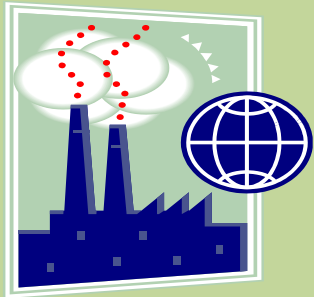
- A. Reduce environmental harm as per directives
- B. Processing waste materials and wastewater sludge
- C. Energy generation (electric energy, steam for district heating)
- D. Creating new work opportunities

The TRENERG Waste to Reenergy Power Plants

basic information

- **Planned time of investment execution:** Project completion within 18-20 months
- **Input materials – materials expected:**
 - wastewater sludge (directly from sludge pool via pipeline)
 - municipal waste
 - hazardous waste
 - organic waste or Oil derivatives
 - agricultural waste
 - food industry waste
 - etc waste...
- **Total: ~180 -220 ton/day (Depending on the dry matter content after selection)**
- **The capacity depends on the amount of waste (200 - 400 – 600 - 1200 – 1800 tonns/day)**
- **Output materials (the above 200 t plant) – marketable products:**
 - 5-6 MW/h electric energy or fossil free Oil (~30t from gas or green diesel Fuel, by MP Diesel engine with generator, emission are recycled into the system)
 - 1-2 MWh electric current (generated by water steam turbine)
 - 5 -10 000 ton/year ash (carbon-free, treated in oxygene field, sterile, germ and bacteria free, solid, ash-like material)

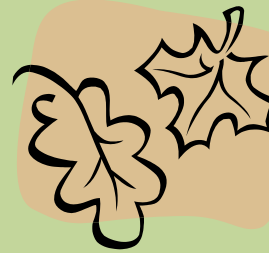
Waste to Reenergy technologies process from TRENERG



Industrial waste
Waste Oil, etc...



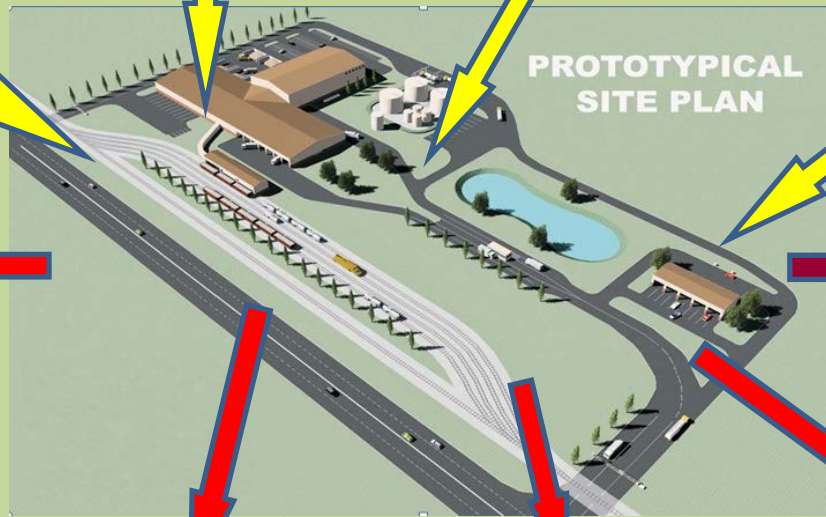
Municipal waste



Wastewater sludge



Agricultural waste



Fossil free GAS



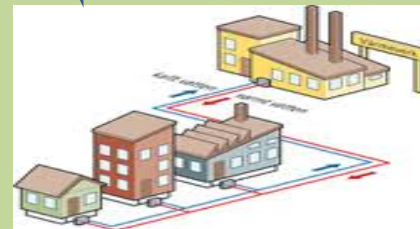
Ash



Electric energy



Fossil free Diesel



District heating



Agriculture