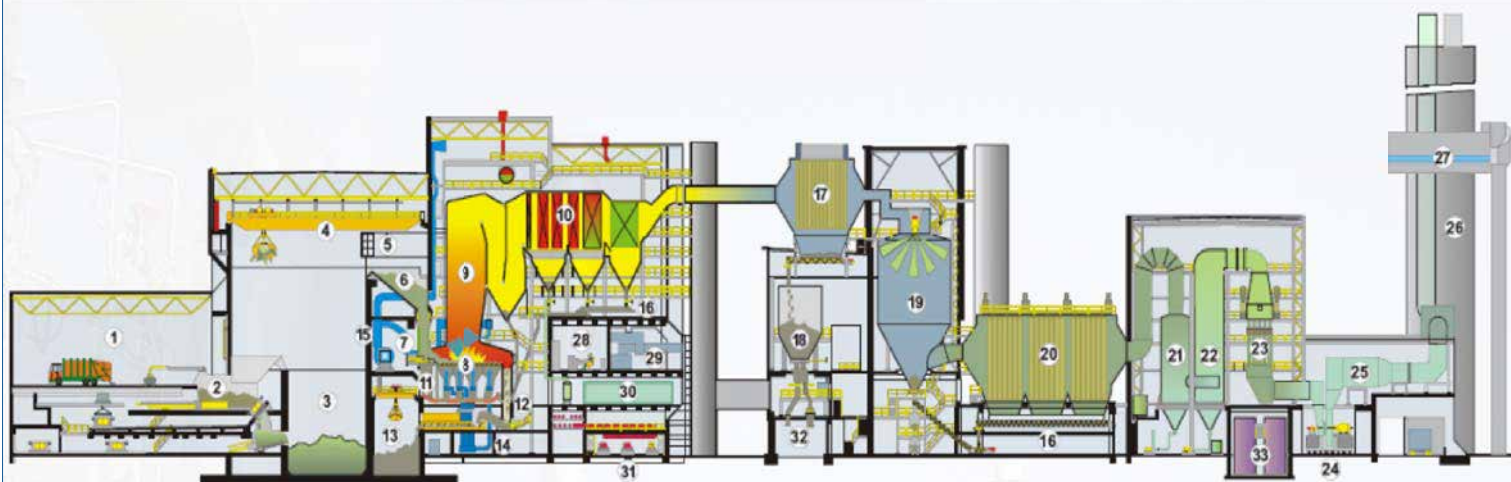




THERMOELECTRICAL POWER PLANT

VLE (Very Low Emission)



FROM MSW/RDF

- | | |
|---------------------------------------|--|
| 1) Tipping floor | 18) Electrofilter ash pit |
| 2) Shredding and selection | 19) Flue gas cooling tower with lime injection |
| 3) Waste storage pit | 20) Particulate filtering system |
| 4) Bridge crane | 21) Acid scrubber |
| 5) Pit air intake system | 22) Basic scrubber |
| 6) Waste hopper | 23) Wet Electrofilter |
| 7) Secondary air injection system | 24) Flue gas fan |
| 8) Grate | 25) Post-heating system |
| 9) Combustion chamber | 26) Stack |
| 10) Boiler | 27) Fumes analyzing system |
| 11) Ash extractor | 28) Control room |
| 12) Bottom ash discharge system | 29) Turbine room |
| 13) Bottom ash pit | 30) Electric panels room |
| 14) Primary air injection under grate | 31) Pump room and water treatment |
| 15) Load compartment | 32) Ash discharge to trucks |
| 16) Boiler ash discharge | 33) Reactives storage |
| 17) Dry electrofilter | |



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THERMOELECTRICAL POWER PLANT

VLE (Very Low Emission)

AIR EMISSIONS

Operating Hours 8000			
	ACTUAL mg/Nm ³	EU LIMITS mg/Nm ³	Delta %
Particulate matter (PM)	0.40	10	-96.00
NO _x - Nitrogen Oxides	62.5	100	-37.50
SO ₂ - Sulfur Dioxide	3	50	-94.00
HCL - Hydrogen Chloride	0.50	10	-95.00
CO - Carbon Monoxide	8.8	50	-82.40
TOC - Total Organic Carbon	1	10	-90.00
HF - Hydrogen Fluoride	0.0715	1	-92.85
PAH - Polycyclic Aromatic Hydrocarbons	0.000009	0.01	-99.91
Hg - Mercury	0.001	0.05	-98.00
Cd+Tl - Cadmium+Thallium	0.001	0.05	-98.00
Total Metals	0.004	0.5	-99.20
PCDD/DF - Dioxin/Furans	0.0000000004	0.0000001	-96.00

certified data from competent authority (ARPA)

WHY IS OUR TECHNOLOGY ADVANCED

- VLE technology is the result of years of research and development to find a solution to the extreme and severe rule in treating medical and hospital waste
- VLE technology assures more than 90% air emission reduction for the most of pollutants compared to EPA and EU limits.
- Able to treat simultaneously different kind of waste: biomass, woodchip, RDF, medical waste
- Scalable and modular technology from small - rotating drum steam boiler (from 20,000 to 40,000 tons/year each line) to large horizontal grate steam boiler (from 70,000 to 150,000 tons/year each line)
- Automated air flow control and ash removal to reduce emission
- Optimized combustion control: 100%
- All basic processes are driven by a dedicated software and PLC
- No visible emissions from smokestack
- Long engineering experience means capacity to optimize all the components of the system to get better results in term of: low emission, energy efficiency, reduced ashes, reliability, more than 8,000 hours per year and valuable training of operating people



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