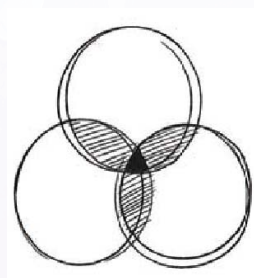
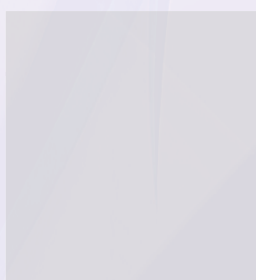
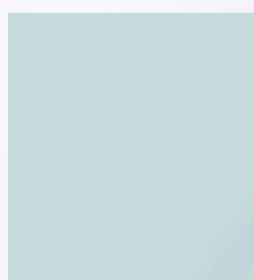




Technical
Expertise



The right
sinergy
between
waste, energy
and environment



Our technologies
BIOGAS
BIOMETHANE
WASTE TO ENERGY



WT ENERGY



WT ENERGY focuses on developing, acquiring and promoting new technologies to convert solid waste into energy respecting and improving the environment.

The proposed solutions are developed with a synergy of know-how by reputed technology partners, engineering teams, experts in waste-to-energy and are protected by international patents.

WT ENERGY tasks and responsibility is to promote these technologies worldwide offering a global service up to turnkey plant.













We work on project basis, to achieve the best ratio between investment and energy production.



WT ENERGY

THE SOLUTIONS

WT ENERGY Technology, supported by International patents and Know-How, is able to produce biofuels and renewable energy from waste.

WT ENERGY Solutions			
Feedstock	Process	Products	Markets
			
Municipal Solid Waste	Pretreatment: Sorting, Recycling, Treatment	Recyclables, Glass, Metal, Aluminum	Recycling Industries
			
Biomass: Manure, Agriculture, Slaughter- houses, Agro-Industrial Waste	Anaerobic Digestion: Biowaste, Biomass, Agro-Industrial Waste	Biomethane, Compost, Water	Biofuels for transportation & Households / Businesses, Agriculture
			
Medical and Hospital, Chemicals, Industrial	VLE Steam Boiler: Input Waste Flexibility Msw, Medical Waste, Chemicals, Tyres	Electrical and Thermic Energy	Electrical Companies and District Heating



PROJECT REFERENCES

37 implemented projects in waste treatment and energy recovery:

- BIOGAS PLANTS
thermo-electrical power plants and biomethane plants
- LANDFILL ENVIRONMENTAL AND LANDSCAPE RECOVERY
- LANDFILL ENLARGEMENT AND MANAGEMENT
- THERMOELECTRICAL POWER PLANTS
fuelled by biomass/refuse derived fuel
- THERMOELECTRICAL POWER PLANTS
fuelled by medical waste



WT ENERGY



LOCATION	TECHNOLOGY	CONSTRUCTION YEAR	INPUT MATERIAL	BIOGAS PRODUCTION	ELECTRICAL POWER
Faenza – Italy	VLE Steam Boiler BOP - biomass	1992	Agro industrial	-	6.2 MW
Savignano – Italy	VLE Steam Boiler BOP	1997	Agro industrial	-	1 MW
Bologna – Italy	Landfill gas captation	1998	MSW	700 m3/h	1.2 MW
Faenza – Italy	VLE Steam Boiler BOP - biomass	1999	Agro industrial	-	6.3 MW
Forlì – Italy	VLE Steam Boiler (very low emission)	2001	Hospital and medical waste	-	2.6 MW
Ravenna – Italy	Anaerobic digestion	2004	Anaerobic sludge	1,000 m3/h	2.1 MW
Faenza – Italy	VLE Steam Boiler BOP - biomass	2004	Agro industrial	-	15 MW
Rimini – Italy	Anaerobic digestion	2004	Sediment sludge from sewage	500 m3/h	1 MW
Forlì – Italy	Anaerobic digestion	2005	Sediment sludge from sewage	500 m3/h	1 MW
Frosinone – Italy	Anaerobic digestion	2006	Distillery waste	550 m3/h	1.7 MW
Padova – Italy	Anaerobic digestion	2007	Distillery waste	300 m3/h	0.6 MW
Forlì – Italy	Double system of post combustion	2007	Hospital and medical waste	-	3.2 MW
Siena – Italy	Anaerobic digestion	2007	Distillery waste	270 m3/h	0.6 MW
Chieti – Italy	Anaerobic digestion	2007	Distillery waste	400 m3/h	0.8 MW
Firenze – Italy	Anaerobic digestion	2007	Distillery waste	310 m3/h	0.6 MW
Ravenna – Italy	Anaerobic digestion	2008	Distillery waste	1,100 m3/h	1.2 MW
Forlì – Italy	VLE Steam Boiler BOP - biomass	2008	MSW - (RDF)	-	13 MW
Rimini – Italy	Pipeline construction BOP	2008	MSW - (RDF)	-	13 MW
Rimini – Italy	Anaerobic digestion	2008	Sediment sludge from sewage	170 m3/h	0.5 MW
Modena – Italy	VLE Steam Boiler BOP - biomass	2009	MSW - (RDF)	-	18 MW
Mantova – Italy	Anaerobic digestion	2009	Corn silage and hydro bios	500 m3/h	1 MW
Faenza - Italy	VLE Steam Boiler (very low emission)	2010	Agroindustrial + RDF	-	13.7 MW
Faenza - Italy	VLE Steam Boiler (very low emission)	2010	Industrial waste	-	10 MW
Cremona - Italy	Anaerobic digestion	2010	Biomass, manure, vegetation water	500 m3/h	1 MW
Perugia - Italy	Anaerobic digestion	2010	Corn silage	500 m3/h	1 MW
Cades de Penedes - Spain	Anaerobic digestion	2011	Distillery waste	350 m3/h	0.6 MW
Parma - Italy	VLE Steam Boiler BOP	2011	RDF	-	21 MW
Siena - Italy	Anaerobic digestion	2011	Biomass, manure, vegetation water	500 m3/h	1 MW
Cremona – Italy	Anaerobic digestion	2011	Biomass and manure	500 m3/h	1 MW
Perugia – Italy	Anaerobic digestion	2012	Corn silage	500 m3/h	1 MW
Ancona – Italy	Anaerobic digestion	2012	Corn silage	500 m3/h	1 MW
Siena – Italy	Anaerobic digestion	2012	Agricultural waste	500 m3/h	1 MW
Ravenna – Italy	Anaerobic digestion	2012	Sludge from agricultural waste	500 m3/h	1 MW
Santiago – Chile	Anaerobic digestion	2013	Distillery waste	500 m3/h	1 MW
Ciudad Real – Spain	Anaerobic digestion	2013	Distillery waste	-	1 MW
Chieti – Italy	Anaerobic digestion	2013	Corn silage	-	1 MW
Bologna – Italy	Anaerobic digestion	2014	Corn silage	500 m3/h	1 MW
Brindisi – Italy	Anaerobic digestion	2014	Agricultural waste and manure	60 m3/h	0.1 MW
Lokoja – Nigeria	Anaerobic digestion	2014	Distillery waste	-	1 MW



Latest Project For Bio-Methanisation Plant

We are developing a plant to treat 120,000 cubic meters of sludge from wastewater. The production of biogas and stabilized sludge for agriculture use is going to be performed by a newly designed process for pasteurisation and anaerobic digestion.



The biogas is transformed in thermic energy in a specific boiler to supply heat for the wastewater treatment plant processes. This solution will allow for the reduction of the energy costs of the whole plant up to 50%.



Project under development to upgrade an existing composting plant to biomethane

A good example of how to transform a composting plant in a financially attractive venture.

Construction of a “waste to bio-methane” plant converting 35,000 tons/year of the organic fraction of the municipal solid waste (MSW).

Biomethane and quality compost for agriculture/gardening will be produced by the latest anaerobic digestion technologies together with a composting facility. It is an environmental sustainable technology accepted by environmental organizations such as Greenpeace.

A combined plant (*anaerobic digestion + composting*) is the best and most accepted solution by the worldwide ecological WTE trend.

EXPECTED FINANCIAL RESULTS

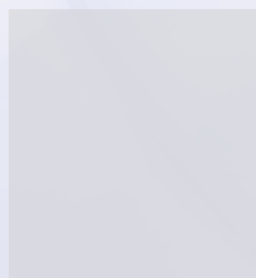
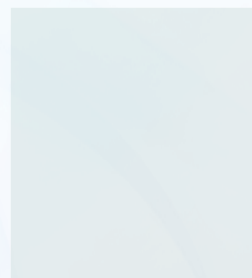
Capex (<i>Total Investment</i>)	10.4	Millions €
Equity	3.1	Millions €
Financing	7.3	Millions €
Average Annual Cash Flow (<i>Ebitda</i>)	5.0	Millions €
IRR Investment (<i>Ebitda/Cash</i>)	43	%
Payback Investment	2	years
IRR For Investors (<i>Ebitda/Equity</i>)	141	%
Useful Life	30	years



Our
Partners



Our
Headquarter



What We Do

Leading Projects
Marketing and Commercial Network
Research
Project Financing
Feasibility Studies
Engineering
Supervision
Training
Procurement and Commissioning

www.wt-energy.com

info@wt-energy.com



WT ENERGY

Piazza Stazione, 2
50123 Florence – Italy
Tel: +39 055 287864