



Waste-to-energy plants

PROJECT PRELIMINARY INFORMATION

Contact Information

Mr. Ms. Mrs. Dr.

Name: _____

Organization: _____

Address: _____

City: _____

State/Province: _____

ZIP/Postal Code: _____

Country: _____

Phone: _____

Fax: _____

E-mail: _____

Website: _____

How did you learn about WTE s.r.l. (Internet search, personal referral, publications/articles, conferences, other) ?

Purpose of the inquiry:

What role do you play in the project (developer, finance, broker, industry, principal, other) ?

Do you currently have or have you ever owned/operated a power plant or a waste processing plant?

Yes

No

Is this an investigative/academic inquiry?

Yes

No

Is a feasibility study envisaged?

Yes

No

Project general information

Has a Contract Agreement or Memorandum of Understanding been drawn up for this project?

Yes

No

Have the characteristics of MSW produced in the area been investigated?

Yes

No

Has the effect of seasonality on MSW composition physiochemical properties been evaluated ?

Yes

No

Project foreseen start date: _____

Required completion date: _____

Please add any other information relevant to the project:

Summary of waste data

Total population served: _____ Address: _____

MSW production (ton/d): _____ Maximum expected LH (kJ/kg): _____

MSW production (ton/y): _____ Minimum expected LHV(kJ/kg): _____

| | Waste origin | Area Classification | Availability (Tonnes/year) | Calorific content (MJ/kg) | |
|---|--------------|---------------------|----------------------------|---------------------------|-----|
| | | | | HHV | LHV |
| 1 | | | | | |
| 2 | | | | | |
| 3 | | | | | |
| 4 | | | | | |
| 5 | | | | | |
| 6 | | | | | |
| 7 | | | | | |
| 8 | | | | | |

Area classification: R Residential C Commercial I Industrial T Touristic M Medical facility

| | MSW physiochemical analysis | | | | | | | |
|-----------------|-----------------------------|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| % Moisture (wb) | | | | | | | | |
| % Ashes (db) | | | | | | | | |
| % Volatile (db) | | | | | | | | |
| % Fixed Carbon | | | | | | | | |
| C (% daf) | | | | | | | | |
| H (% daf) | | | | | | | | |
| N (%daf) | | | | | | | | |
| Cl (% daf) | | | | | | | | |
| S (% daf) | | | | | | | | |
| F (ppm) | | | | | | | | |
| Pb (ppm) | | | | | | | | |
| Cd (ppm) | | | | | | | | |
| Hg (ppm) | | | | | | | | |

Abbreviations:

wb wet base daf dry - ash free HHV Higher heating value
 db dry base FC Fixed Carbon LHV Lower heating value

| | MSW characterization by components (% wt) | | | | | | | |
|--------------|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| Inert | | | | | | | | |
| Metals | | | | | | | | |
| Aluminium | | | | | | | | |
| Glass | | | | | | | | |
| LWTR | | | | | | | | |
| Paper | | | | | | | | |
| Putrescibles | | | | | | | | |
| Plastics | | | | | | | | |
| Misc. | | | | | | | | |

LWTR = Leather/Wood/Textiles/Rubber

Inerts = construction and demolition waste

Project requirements on Electric and Thermal Power

Required electric power (MWh_e) _____

Is the electric power to be delivered to the National Grid Operator? Yes No

If the electric power will be delivered to the grid, it will be in Medium or High Voltage? MV HV

List here any relevant information concerning the electric power (internal use, regulations concerning connection with NGO, etc.)

Required thermal power (MWh_{th}): _____ Demand of thermal power (hours/year): _____

Use of thermal power: Steam, industrial process Hot water, industrial process District Heating District Cooling

List here any relevant information concerning the use of thermal power (for industrial processes, DH, DC):

Project site

Has the plant site been selected? Yes No

In case, please indicate here site's location

Available indoor surface: _____ Available outdoor surface: _____

Site characteristics:

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Greenfield | <input type="checkbox"/> Power plant retrofit/rebuild | <input type="checkbox"/> Municipal DH | <input type="checkbox"/> Forestry/Wood industry |
| <input type="checkbox"/> Brownfield | <input type="checkbox"/> Pulp&paper plant | <input type="checkbox"/> Industrial site | <input type="checkbox"/> Distillery |
| <input type="checkbox"/> Other (specify) | | | |

Site access:

- Rail spur
- Highway
- National/State Road
- To be realized

Availability of Plant Utilities:

- | | | |
|---|---|---------------------------------------|
| <input type="checkbox"/> Industrial water | <input type="checkbox"/> Natural gas pipeline | <input type="checkbox"/> Landfill gas |
| <input type="checkbox"/> Drinkable water | <input type="checkbox"/> Propane | <input type="checkbox"/> Diesel oil |
| <input type="checkbox"/> Electric Power | <input type="checkbox"/> Butane | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Sanitary sewer | <input type="checkbox"/> Biogas | |

Constraints on the site area:

- | | | | |
|--|---|---|--|
| <input type="checkbox"/> Need for clearing areas | <input type="checkbox"/> Methane pipeline | <input type="checkbox"/> Acqueduct or water lines | <input type="checkbox"/> Building height _____ |
| <input type="checkbox"/> Power lines | <input type="checkbox"/> Oil pipelines | <input type="checkbox"/> Sewers | <input type="checkbox"/> Other _____ |

