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Calculation results for BSI via BiogasWorld

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Feedstocks

- 10 000 tons/year of Organic waste from ICI
- 18 000 tons/year of Residential source sorted organic (SSO)
- 8 000 tons/year of Vegetable waste
- Contaminants level : 5%

Biogas plant information

- Digester type : Dry
- Biogas usage : Heat (boiler)
- Digestate usage : Compost
- Solid content before digestion : 25%TS, this solid content should be adjusted for the digester type

Results

- Biogas production : 3 482 700 m³/yr or 398 m³/hour
- The thermal energy production via the boiler will be of 63 478 GJ per year or 60 119 mmBTU per year
- Total digestate : 29 986 tons/year
- Contaminants to landfill : 1 800 tons/year
- The greenhouse gas (GHG) reduction will be around 6 421 tons CO₂ eq./yr for landfill diversion and 3 174 t

Potential revenue per year

634 780\$ from heat sales

Plant cost estimation

The first estimation of the cost, +/-30%, is 7 047 000\$ for an Industrial type system

You need more ?

For further calculations on feedstock profiling, mass and energy balance, equipment sizing and economic modeling p

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Regards,

BiogasWorld