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# FEASIBILITY STUDY – THERMAL HYDROLYSIS

(complete form and send via email to dfpolanco@tech4plus.com)

## A. General data

| | |
|---|---|
| 1. Plant name: | |
| 2. Design capacity ($m^3$/d): | |
| 3. Current operation ($m^3$/d): | |

## B. Technical data

| | |
|---|---|
| 4. Number of digesters and volume ($m^3$): | |
| 5. Digesters mixing/agitation type: | |
| 6. Digestion temperature (ºC): | |
| 7. Hydraulic residence time (days): | |
| 8. Organic loading rate (kg VS/$m^3$·day): | |
| 9. Volatile solids reduction (% VS): | |
| 10. Polyelectrolyte dosing (kg poly/t DS): | |
| 11. Biosolid production (kg/day): | |
| 12. Biosolid concentration (%DS): | |
| 13. Biosolid disposition (e.g., land application): | |
| 14. Biogas generation ($Nm^3$/d): | |
| 15. Methane in biogas (% $CH_4$): | |
| 16. H2S in biogas (% v/v): | |
| 17. Biogas to engines (% of total): | |
| 18. Number of engines and power (kW): | |
| 19. Engines brand and model: | |
| 20. Power generated (kWh/d): | |
| 21. Engines heat use (e.g., digesters heating): | |

## C. Digesters feed: (DS: Dry Solids, VS: Volatile Solids, d: day)

| | kg DS/d | % DS | Kg VS/d | % VS/DS | m3/d | COD |
|---|---|---|---|---|---|---|
| Primary sludge | | | | | | |
| WAS | | | | | | |
| | | | | | | |
| | | | | | | |

## D. Economic data

| | |
|---|---|
| 22. Power consumption (kWh/d): | |
| 23. Power consumption (kWh/$m^3$ influent): | |
| 24. Power price (€/kWh): | |
| 25. Sludge management price (incl. transp.) (€/ton): | |
| 26. Potential EPA Class A biosolid price (€/ton): | |