
# Waste-to-Energy Plant
## Peer, Belgium

### Project data

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| Commissioning: | August 2014 |
| Input materials: | Maize silage, mix of fats, vegetable & crop residues, grease stap, soap-water, grain cleaning |

### Technical data

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| Entry system: | 2x 80m³ dosing feeder |
| Pre- & post-storage: | 7x tanks á 100m³ (Ø 4m, H 9m) |
| Digester: | 2x 4,668m³ (Ø 30.71m, H 6.30m) |
| Storage tank: | 1x 1,972m³ (Ø 19.96m, H 6.30m) |
| CHP: | 2x 1,189kW$_{el}$ |
| Miscellaneous: | **MULTI**Mix<br>Separation<br>Drying unit<br>CeMOS control system |

### Characteristics

The biogas plant can cover the electricity needs of almost 5,000 households. However, the customer for the 19 gigawatt hours generated annually is a company that produces special yarns for carpets. The heat generated is also utilized directly at the biogas plant: The digestate is dried using all the heat generated by the plant. The dry fertilizer is then sold beyond the country's borders to fruit and wine growers.

The plant is technically sophisticated. Accordingly, WELTEC`s own SCADA-based CeMOS control system is used there.

Due to the number of tanks, the demands on the central pump block are high.

The elevated tanks are used to store substrates and the digestate.

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