

Cofermentation plant Lethbridge Alberta, Canada



Operator

Lethbridge Biogas LP

Commissioning

Planned for March 2013

Inputs

Slaughterhouse waste and carcasses
Food production waste and effluents
Cow slurry, cow manure, chicken dung

Technical data

3 prestorage tanks 2x d = 14 m, h = 8 m; V = 1,231 m³; 1 x d = 7 m, h = 7 m; V = 269 m³

3 digesters d = 25 m, h = 8 m; V = 3,926m³

1 digestate storage d = 30 m, h = 8 m; V = 5,645m³

Dry feeding system 1 x Vario 74m³ incl. liquid feeding system PlanET eco flow

CHP 2 x 1,425 kW_{el} Jenbacher in a power house

Technical highlights

The high pressure sterilisation (180°C, 40 min., 12 bar) within the receiving area is a completely new technology for carcasses treatment plants. Odours deriving from the receiving area are transferred to a bio-trickling reactor where emissions are scrubbed with sodium hydroxide, followed by acid scrubbing and bio filtration.

Heat concept

The process heat is partly used to supply the tanks with heat. Additionally, a thermal oil heat changer is installed to reduce the needed energy to heat the high pressure sterilisation.



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