METENER

Introduction to Metener Ltd and products





About Metener

Metener Ltd is a Finnish biogas engineering company, founded by Mr. Erkki Kalmari in the year 2001. It is located in Laukaa, central Finland. Mr. Kalmari built his first biogas plant in 1998 and first public biogas filling station in Finland in the year 2004.



Products



Biogas production (wet and dry method) technology.

Biogas upgrading unit (needed when vehicle fuel, bottled gas or state grid injection is applied)

Hydraulic gas compressing unit

Coming products:

CO₂ recovery system integrated to upgrading unit

Light biogas upgrading unit, which purifies biogas and increases methane content to 70-80% (useful with local gas grids and CHP)

References Metener biogas plants with Metener upgrading unit

	Commissioned	Capacity m3 raw gas / h	Capacity kW	Biomass
Leppävesi	2002	30	180 kW	Sludge, food industry waste
Jyväskylä	2003	10	60 kW	Metener delivered upgrading unit
China	2009	40	240 kW	Sludge
United Kingdom	2013	10	60 kW	Metener delivered upgrading unit
Joutsa	2014	60	360 kW	Sludge, food industry waste, biowaste
Leppävesi (new unit)	2014	60	360 kW	Sludge, food industry waste
Australia	2017	10	60 kW	Metener delivered upgrading unit
Hyvinkää	2018	60	360 kW	Dry fermentation: Grass, horse and chicken manure
China	2019	60	360 kW	Dry fermentation: Corn straw

References Metener biogas plants with CHP unit

	Commissioned	kWe	Biomass
Leppävesi	1998	50	Sludge, food industry waste
Halsua	2003	30	Sludge, food industry waste
Maaninka	2009	30	Sludge, grass
Juva	2010	250	Sludge, dry manures, food industry waste
Tuorla	2011	50	Sludge, grass, plant biomass from sea bay
Huittinen	2012	150	Sludge, dry manure, food industry waste
Leppävesi, new CHP	2013	50	Sludge, food indusrty waste, grass
Kouvola	2017	3x60	Dry Fermentation: Tree leaves, wood biomass, garden waste
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Palopuro Dry Fermentation Project

(Awarded by Finnish Enviromental and Energy Minister Kimmo Tiilikainen)



Reference 2018-2019: Dry fermentation plant and filling station to Hyvinkää Finland (Palopuro project).





Palopuro dry fermentation plant

Biomasses: grass, horse manure, chicken manure,

Annual production 2500 MWh





Harvest



Collection & shredding



Fermented residue



Fertilizer application



Reference example:

Wet fermentation plant at Huittinen

Biomasses: Pig slurry, Grass, Food industry waste

150 kW electriciy, 200 kW heat for the farm use





Metener strenght: combined technology and biology knowhow, process understanding, high automation level, long history in R&D.









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