METENER

Reference list 11/2018

Biogas piloting trials

Potato cell liquid co-digestion
Golf course waste
Hamina Energy, Industrial sludge
Hamina Energy, co-digestion sludge + fish waste
Hamina Energy, bakery wastes
Energy crops
Low quality cooking oils
Reed canary grass
Biomass from wetlands
ESBIO -program
Greenhouse leaf mass
Industry wastewater sludge
Long term energy crops
Slaughterhouse waste
Fur animal manure
Biowaste and municipal sludge co-digestion
Horse manure dry digestion
Poultry manure dry digestion
High lignin content biomasses, lab scale
High lignin content biomasses, pilot scale
Co-digestion trials, farm- and agroindustry waste
Fur animal manure dry digestion, lab scale
Co-digestion trials for manures and agroindustry waste, long term trials
Oat straw monodigestion trial, dry process
Agave bagasse dry digestion trials
Poultry manure, straw and landscaping grass dry digestion trials
Lignocellulosic material entzyme treatment & biogasification trials

Biogas upgrading & refuelling

Biogas Upgrading unit 180 kW, Leppävesi
Pilot scale Upgrading unit 42 kW, Jyväskylä University
Biogas Upgrading unit 240 kW, North China
Biogas Upgrading unit 60 kW, UK
Biogas Upgrading unit 360 kW, Joutsa
Biogas Upgrading unit 360 kW, Leppävesi
Biogas Upgrading unit 60 kW, Australia
Biogas Upgrading unit 360 kW, Hyvinkää
Biogas Upgrading unit 360 kW, China (under constr.)

Gas pressurization technology

Hydraulic booster, Leppävesi
Hydraulic booster, Hyvinkää (under constr.)
Hydraulic booster, China (under constr.)

Pressure reducing system, Gasum

Biogas plants, wet fermentation

Biogas plant 50kWe, Leppävesi
Biogas plant 30kWe, Halsua
Biogas plant 20kWe, Maaninka
Biogas plant 360kW upgraded gas, Leppävesi
Biogas plant 240kW upgraded gas, China
Biogas plant for education, Kouvola
Biogas plant for education, Mikkeli
Lab reactors, MTT
Biogas plant 250 kWe, Juva
Biogas plant 50kWe, Piikkiö
Biogas plant 150 kWe Huittinen
Biogas plant 100 kWe, Viro
Biogas plant 360kW upgraded gas, Joutsa
Lab reactor system, Tampere
(forest industry waste)

Biogas plants, dry fermentation

50-100 kW raw gas power, Leppävesi
biomasses: grass, dry manures, straw

50-200 kW raw gas power, Kouvola
biomasses: green waste, grease

360 kW upgraded gas, Hyvinkää
biomasses: grass, horse and chicken manure

Lab reactor system for Natural Resources Institute Finland

4,5 MW raw gas power,China (under design)
biomass: straw

360 kW upgraded gas, China (under design)
biomass: field biomass like grass and straw