WASTE TO ENERGY

Your organic waste: a profit centre, not a cost centre.

Today you pay to get rid of your organic waste. A Bert biogas plant turns it into cooking gas, electricity, heat and fertiliser, right where it arises.

Modular, proven in more than 140 plants, and sold, built and serviced by a local Bert partner near you.

Bert plant, 6 tonnes/day pig slurry, Czech Republic

140+	~15	2010	5 years
plants since 2012	countries	German engineering since	leasing terms up to

WHY BIOGAS

Waste costs money. Biogas turns it into value.

Every day, kitchens, farms and food factories pay to store, transport and dispose of organic waste. A biogas plant uses this waste on site, so the waste starts to earn money instead of costing it.

Your own energy

Biogas replaces LPG for cooking, or produces electricity and heat. You buy less energy and depend less on rising prices.

Lower disposal costs

Your waste is used where it arises instead of being trucked away. Fewer collections, lower fees.

Free fertiliser

What remains after digestion is a nutrient-rich fertiliser for your fields, or a product you can sell.

Clean and green

A closed, odour-free fermenter. Less smell, fewer flies, lower greenhouse gas emissions.

WHO IS IT FOR

Made for everyone who produces organic waste.

Hotels, restaurants & kitchens

Food and kitchen waste becomes cooking gas for your own kitchen.

Farms

Manure, slurry, straw and grass become electricity, heat and fertiliser.

Food & drink industry

Breweries, dairies, bakeries, slaughterhouses and food processors use their residues.

Campuses & institutions

Universities, canteens, hospitals and military camps turn food waste into energy.

Municipalities & sewage plants

Market waste, municipal organics and sewage sludge are treated locally.

Islands & off-grid sites

Where energy is expensive and waste is hard to remove, biogas solves both.

Biogas in plain words: when bacteria break down organic material without air, much like in a cow's stomach, they produce biogas. Its main part is methane, the same energy carrier as in natural gas. **1 m³ of biogas** (about 60 % methane) replaces about **0.45 kg of LPG** or produces about **1.8 kWh of electricity** in a small CHP unit.

Leasing makes it affordable

Bert plants are leasable, with terms of up to five years and a ten-year warranty on the fermenter. Your local Bert partner helps you to access local leasing options.

How much work is it?

Your team fills the reception pit once a day. A pump feeds the fermenter automatically every hour, and the biogas process runs continuously.

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WHY BERT

Biogas technology you will not find anywhere else.

Bert does not simply sell a digester. Bert turns organic residues that are hardly used today into economic value, right where they arise, with technology from decades of experience in anaerobic digestion.

Bert Panel Fermenter

Built from standardised panels: compact to transport, quick to assemble and sized exactly to your amount of waste, with a small footprint.

Mira Carbon

A carrier material inside the fermenter on which the gas-producing bacteria settle as a biofilm. Proven for decades in wastewater treatment, it gets more biogas out of the same waste.

Robot-supported assembly

A robot helps unload and assemble the panels. This makes construction fast, precise and repeatable in every market.

Robot-supported unloading and panel-by-panel assembly

ECONOMICS

Biogas is a puzzle. We put the pieces together.

Your waste

decides how much gas you get.

- High yield: food and kitchen waste, chicken manure, straw, Napier grass
- Medium: slaughterhouse and brewery waste, cow dung
- Low: pig slurry, sewage sludge

The plant technology

decides the investment.

- Pre-pit, shredder, pumps, cavitation
- Fermenter technology, Mira Carbon
- Gas storage and cleaning, separator, hygienisation

The outputs you use

decide your income.

- LPG replacement, electricity, heat, cooling, Bio-CNG
- Liquid and solid fertiliser
- Saved disposal cost, carbon credits

Where the money comes from

Energy you save
LPG, diesel, electricity or heat that your plant now produces itself.

No disposal fees
Collection, transport and landfill or treatment fees.

Fertiliser
Liquid and solid fertiliser for your own use or for sale.

Extra income
Selling electricity or BioCNG and, for suitable projects, carbon credits.

OUR PLANTS

MiraX biogas plants in seven sizes: 200 kg to 6 tonnes a day.

Model	MiraX 200	MiraX 500	MiraX 1000	MiraX 2000	MiraX 3000	MiraX 4000	MiraX 6000
Food waste kg/day	200	500	1,000	2,000	3,000	4,000	6,000
Biogas m³/day	16	40	80	160	240	320	480
LPG equivalent kg/day	7	18	36	72	108	144	216

Values for food waste. Every substrate gives a different amount of gas. Larger Bert plants for farms, industry and municipalities on request.

What is your waste worth? Try our calculator.

Choose your waste, enter the daily amount and your local prices: the calculator shows biogas, energy value, the matching MiraX plant, indicative investment and simple payback in your own currency.

www.bert-energy.com/#calculator

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PROVEN TRACK RECORD

Built on experience. Proven in operation.

More than 140 plants in around 15 countries since 2012, with farm plants running for over ten years.

Farm plants since 2012

Bert Energy · Europe. Cattle and pig slurry, 10+ years in operation.

From Bert Mobil to MiraX

Kankyo Bert · India. Series-built container plants.

100 kg/day container plant

India. Food waste to biogas, fully containerised and mobile.

YOUR PATH TO A PLANT

Four steps to your own biogas plant.

1

Tell us about your waste

Type of waste, amount per day and location, via the short form or the RFQ template.

2

Check and calculation

We check your waste and calculate gas, energy, fertiliser and payback for your site.

3

Proposal from your partner

A complete offer incl. transport, installation and permits, for purchase or leasing.

4

Build, start, operate

Your partner installs and commissions the plant, trains your team and services it on site.

OUR PARTNERS

Local partners who know their market.

Bert plants are sold, built and serviced by local partners who know their market, its rules and its language.

Kankyo Bert Pvt Ltd
India · Chennai
Joint venture of Bert Energy and Kankyo Cleantech India
www.kankyo-bert.com

Lush Bert Ltd
Kenya · Lari, Kiambu County
Bert partner for Kenya and East Africa
www.lushbert.com

G-GAS Modular s.r.o.
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Bert partner for the Czech Republic
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M&M Kft.
Hungary · Újlengyel
Sales, planning and service
bioenergia-szakertok.hu

Auras Fireprotection SRL
Romania · Paleu, Bihor County
Sales, planning and service
mobil-biogaz.ro

Your country?
Bert works with partners in further countries. Looking for a partner near you? Write to info@bert-energy.com

Become a Bert franchise partner

Bert sells and builds its plants through local partners in every market. If you want to build a biogas business in your country, Bert gives you the technology, the brand, training and engineering support from Germany. Details: www.bert-energy.com/franchise

Start your project

Tell us what waste you have, how much per day and where, and we will get back to you.

E-mail info@bert-energy.com
Phone +49 (0)211 9367 0411 · Mon–Fri, 9:00–17:00 CET
Web www.bert-energy.com · RFQ templates, calculator and Biogas Assistant

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German engineering since 2010

All figures are indicative. Your final quotation comes from your local Bert partner. As of October 2026.