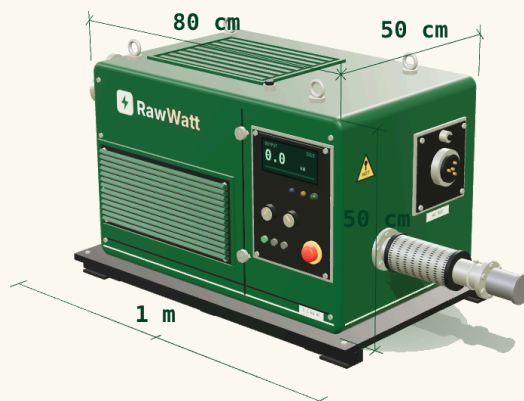




Electricity and heat from raw biogas.

A 3.1 kW dual-fuel biogas/diesel generator for farms and off-grid sites. The engine burns raw biogas through novel technology developed in university research: no scrubbing of H₂S needed up to about 2,000 ppmv.



Concept render, cabinet about 80 × 50 × 50 cm. No photograph of a built unit exists yet.

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gas-cleaning kits to buy, replace or service

1:1

raw biogas to diesel

200 h

between services: engine oil and filters

HOW IT CONNECTS

Farm waste

Manure and crop residue

→ Digester

Makes raw biogas

→ Generator unit

Biogas and diesel in

→ Power and heat

Electricity, hot exhaust

SPECIFICATION, AS DESIGNED

MADE FOR

Farms, cooperatives, NGOs and development programmes that already have a biogas digester

RATED OUTPUT

3.1 kW AC output

FUELS

Raw biogas and diesel, 1:1 ratio by energy

CONNECTIONS

Biogas in, diesel in, electrical outlet, hot exhaust outlet

HOT EXHAUST

Outlet can be piped to heat water

PRICE

On request. Not yet for sale

ENGINE

Standard diesel engine, dual-fuel

SIZE AND WEIGHT

About 80 × 50 × 50 cm, 30 kg, closed cabinet

ROUTINE MAINTENANCE

Engine oil and filters every 200 operating hours, like any diesel engine

TESTING

Based on real-biogas tests

FINAL DESIGN

Q3 2027

Design values. Based on real-biogas tests; the final specification will be confirmed with the final design.