



ENERGiDROp

Embedded BioEnergy Solutions
Responsible Energy for the African Continent



INVENTIVE ENGINEERING FOR PRACTICAL AND SUSTAINABLE ENERGY SOLUTIONS

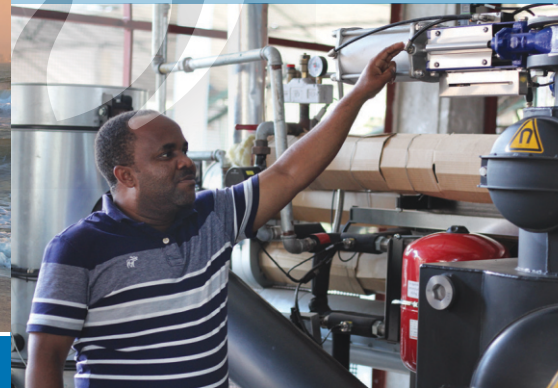
For more information on us, the team, and what we do, visit www.energidrop.com



A proud Co-Founder of the Waste Transformation 4 Energy Association | www.wt4e.com



Member of South African Biogas Industry Association



For over 12 years **ENERGiDROp** has researched and developed heat and power solutions specifically to answer to the energy challenges of the African market. Bringing together the best-of-breed technologies, the **ENERGiDROp** team is ready to offer fully serviced, custom solutions for all its clients. Since 2013 when the company was founded, the team has expanded in size and expertise, and have executed power supply solutions, boiler, gasifier, and pyrolysis developments and projects across the continent.



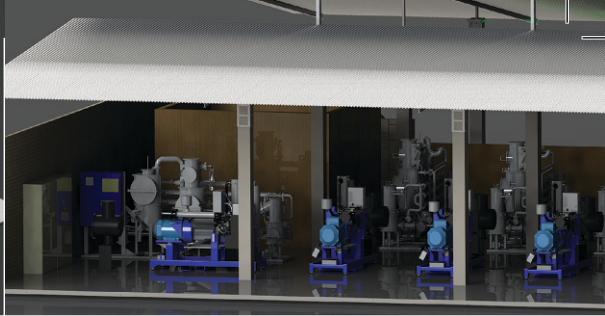
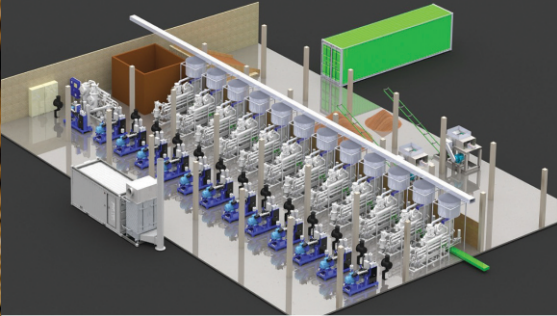
ANSWERING ENERGY CHALLENGES ACROSS AFRICA TO THE BENEFIT OF ALL ITS PEOPLE



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ACCELERATING ALTERNATIVES



Why is bioenergy important in Africa?

Biomass has been highly underutilised as an efficient and reliable energy source. Up to the current date, the majority of uses have been for inefficient cooking and heating. With growing energy needs and the load-shedding crisis, we believe that embedded heat and power generation gives industrial clients flexibility and resilience which the utilities and municipalities can never give.



OUR STANDARD OFFER:

- Feasibility and project-specific evaluation for the client.
- Turnkey design, supply, and installation.
- Operations and Maintenance with a full suite of spares and consumables in stock.
- Residue disposal.
- Optional fuel supply if required.
- Optional funding (ask about funding options).
- Value-added offerings – generate revenues through opening a drying plant!

OUR SOLUTIONS:

	EG50	EG200	EBO1650	EPI150	EW150
Electrical Output (kWe)	50	200	1 650	150	150
Thermal Output (kW)	110	440	3 630	750	750
Fuel	Woodchips	Woodchips	Woodchips	Biomass	Waste
Consumption (kg/hr)	40	160	1 250	600	625

Thermal energy is available as hot water at 85° C or alternatively hot air at 75-80° C.

EVERY DROP AND EVERY EFFORT COUNTS TO KEEP AFRICA'S ECONOMY GROWING AND BRINGING RELIEF TO UNNECESSARY WASTE AND UNDERUTILIZATION OF SOURCES.

We use technology that has been implemented worldwide with an established local supply chain of spares and services. We have the running hours to show! Our team of seasoned professional chemical, mechanical and electrical engineers are easy to work with and keen to deliver the best service. Don't get duped by empty promises and unrealistic offerings.



OPERATIONAL PROCESS:

1. **Biomass is delivered** into the bunker weekly.
2. **Preconditioning** done if necessary.
3. **Automated feeding** to the thermal process.
4. **Energy carrier conversion** (either Internal Combustion Engines or Furnaces).
5. Automated **residue removal**.
6. **Heat recovery** for clients' process.
7. Excess **heat ventilation**.
8. **Grid synchronisation** for seamless use.
9. Energidrop trading of **excess power** through the grid.
10. **< 1 hour operator oversight** required p/day.
11. Automated service notifications to **ENERGIDROP** with speedy delivery.
12. **>90% uptime**.



With electricity prices increasing at record rates and with less and less dependable availability, these solutions are great ways to future-proofing the cost of your industries' energy needs.



ENERGIDROP also offers a variety of bespoke waste treatment energy conversion technologies and enabling services. Some of these are:

- Biogas trial services for co-feeding gas yield determination
- Waste heat to power plants (Organic Rankine Cycle solutions)
- Biomethane plants
- Biogas CHP plants
- Dryers
- In-vessel composters
- Algae plants
- Investment sourcing and fundraising

