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OLAMES. Waste-to-Energy

A circular economy platform for clean biomass, industrial decarbonisation, and climate-smart municipal partnerships.

NATIONAL WASTE-TO-ENERGY PROGRAMME OF ACTIVITIES.

BIOMASS RESIDUES → COLLECTION & LOGISTICS → DRYING & AGGREGATION → PELLET PRODUCTION → INDUSTRIAL BOILER FUEL



A programme of McJones Energy Limited

Partnership brief
For municipal, industry and investor partners
Republic of Ghana — 2026

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The vision

Turning biomass waste into clean industrial energy.

OLAMES is McJones Energy's national waste-to-energy programme of activities. It is being developed as a decentralised platform that aggregates coconut husk and other eligible biomass residues, dries and conditions them, and converts them into specification-grade biomass pellets for industrial heat applications.

The programme is designed to reduce uncontrolled dumping and open burning, support cleaner municipal environments, create local green jobs, and help industrial users switch from fossil fuel to renewable boiler fuel. In doing so, OLAMES links waste management, industrial decarbonisation and climate finance within Ghana's Article 6.2 carbon-market framework.



A circular chain: waste in, clean energy out.

What OLAMES produces

- Industrial biomass pellets for boilers and thermal users
- Structured feedstock aggregation and drying networks
- Digital MRV records to support carbon-market integrity

Why it matters

- Cleaner handling of biomass residues
- Lower-carbon fuel for Ghanaian industry
- A practical municipal partnership opportunity

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How the model works

A hub-and-spoke chain from residue to industrial fuel.

OLAMES organises biomass through a structured operating chain: vendors and generators are registered, biomass is collected through spoke routes, dried and aggregated at intermediate yards, delivered to the processing node, converted into specification-grade pellets, and supplied to industrial heat users. Digital MRV records sit across the chain to support accountability, traceability and carbon-market readiness.

VENDOR REGISTRATION → COLLECTION & SPOKE ROUTES → DRYING & AGGREGATION → PELLET PRODUCTION → INDUSTRIAL USE



Data captured at each step

Vendor ID and source location	Collection event and weight	Batch ID and moisture status	Plant receipt and production record	Pellet dispatch and end-use record

Designed for both operational discipline and CMO-facing traceability.

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Why Greater Accra

A practical starting point with immediate operating relevance.

The Greater Accra catchment sits at the intersection of biomass availability, logistics connectivity and industrial energy demand. That makes it the natural starting point as OLAMES develops its first aggregation chain and prepares for biomass pellet supply into the Accra–Tema industrial corridor.

Biomass availability

Coconut husk and other eligible biomass residues are widely generated across Greater Accra and neighbouring regions.

Industrial demand

Industrial boiler users in the Accra–Tema corridor need cleaner fuel alternatives.

Municipal relevance

Municipalities benefit from better handling of residues and reduced uncontrolled dumping or burning.

Scalable model

The same operating model can scale from pilot collaboration to national replication.



Relevant material streams

- Coconut husk residues
- Selected agricultural biomass residues
- Eligible wood and fibrous biomass
- Source-separated organic and market biomass where applicable

Why the location works

- Near supplier catchments
- Near industrial off-takers
- Good road connectivity
- Suitable for phased aggregation infrastructure

Operational footprint

What the operation needs on the ground.

OLAMES does not require landfill space. It requires orderly areas for biomass handling, pre-drying, temporary stockpiling and movement. As the programme develops its first operating chain, practical access to suitable municipal or partner land can materially improve efficiency, safety and environmental control.

1
Temporary holding areas
For dry eligible biomass stockpiles before onward movement.

2
Pre-drying and aggregation yards
For moisture reduction, consolidation and batch preparation.

3
Vehicle access and turning
For aboboyaa, small trucks and larger transport vehicles.



4
Basic site controls
Drainage, fencing, supervision and orderly material layout.

5
Short-haul logistics links
Efficient connections between source areas, aggregation points and the plant.

The operational requirement is controlled biomass handling — not a municipal dump site.

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Climate impact

Measurable emission reductions in every factory.

Biomass residues left to rot in dumps and heaps release methane, a greenhouse gas many times more potent than carbon dioxide. OLAMES diverts these residues into pellets that replace fossil fuel in industrial boilers. The reductions are quantified under an approved methodology, tracked through digital MRV, and structured for authorisation under Ghana's Article 6.2 carbon-market framework.

232,680

tCO_2e per factory

over a 10-year crediting period

c.3.7 M

tCO_2e — Phase 1

16 factories in Greater Accra and the Eastern Region

11.2 M

tCO_2e — full programme

48 factories across Ghana over their crediting periods

YEAR 1

c.18,200

tCO_2e per factory

Annual reductions grow as avoided methane accumulates — residues diverted each year would otherwise have kept decaying for years.

YEAR 10

c.27,900

tCO_2e per factory

Where the reductions come from

Avoided methane

c.30,000 tonnes of wet residues per factory per year diverted from decay in dumps and heaps.

Fossil fuel displaced

c.15,000 t of pellets per factory per year — c.67 GWh of renewable heat, the energy content of c.6.7 million litres of diesel.

Cleaner air

Less open burning of residues in communities — a health co-benefit, not counted in the carbon figures.

Conservative by design: emission avoidance only — no removal claims — with every tonne weighed, tracked and independently verified.

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Social impact

Jobs and income for youth and women.

OLAMES is built on local value chains. Women dominate market trading and cassava processing, which generate much of the programme's feedstock; young people make up most of the collection and transport workforce. Every factory creates skilled jobs on site and, through its aggregation network, steady work and income in the communities that supply it.

c.40	c.50–60	4,000+
factory jobs	**collection & transport jobs**	**direct jobs**
per factory — operations, maintenance, laboratory, logistics	per factory — tricycle riders and transfer-station staff	across 48 factories at full programme scale

Indicative planning figures, to be confirmed against measured baselines. In addition, each factory provides income for hundreds of vendors, generators and collectors — 1,273 vendors have already been enumerated in Greater Accra's coconut value chain.

Our commitments to youth and women

Targets set on real data

Gender- and age-disaggregated baselines, with participation targets for women and youth set against them and reported to investors.

Fair, transparent pay

Every delivery weighed on verified scales and recorded digitally, with a protected minimum price for collectors.

Skills and careers

Road-safety, maintenance, laboratory and digital-records training, with pathways from collection into supervision.

Safe, inclusive workplaces

PPE in women's fits, separate facilities, safeguards against harassment and abuse, and zero child labour in the supply chain.

Aligned with the SDGs 5 Gender equality · 7 Clean energy · 8 Decent work · 12 Responsible production · 13 Climate action

Shift-based factory operations also support Ghana's 24-Hour Economy agenda.

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Partnership value

What partnership with OLAMES can unlock.

OLAMES works alongside municipal and district assemblies, landowners, biomass generators and industrial energy users to establish the operating conditions for clean biomass supply — while delivering visible public value. The opportunity is operational, environmental and strategic.

Value to partners

- Cleaner handling of biomass residues
- Less uncontrolled dumping and open burning
- Local green jobs in collection and logistics, inclusive of youth and women
- Early participation in a climate-aligned industrial initiative

Possible areas of collaboration

- Suitable land for holding and aggregation areas
- Coordination with communities and biomass generators
- Supportive interface on permits and environmental management
- Offtake agreements, working groups or MoU frameworks

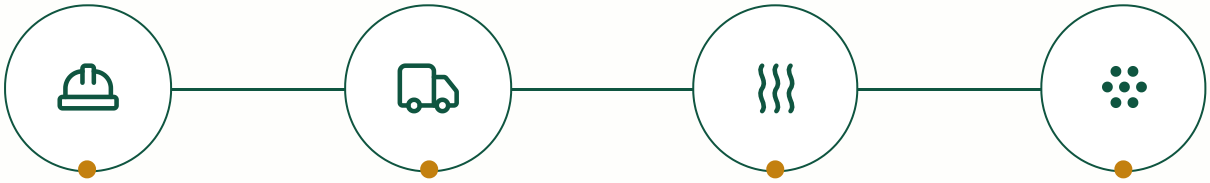
"A well-sited holding area can unlock an entire chain of collection, drying, aggregation and clean fuel supply."

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Status and next steps

From development into delivery.

The OLAMES pilot factory in Greater Accra is funded and in execution, with first pellet production targeted for 2027. In parallel, the programme is building its aggregation, solar-drying and digital-MRV operating chain, so that feedstock supply is in place ahead of full plant operations.



PILOT EXECUTION
Factory funded; equipment procurement under way.
2025 – 2026

AGGREGATION SET-UP
Feedstock sourcing, collection routes and pre-drying hubs.
2026

OPERATIONAL READINESS
Drying, batching, MRV records and supply protocols.
2026

FIRST PRODUCTION
Initial pellet output and early supply to industrial off-takers.
2027

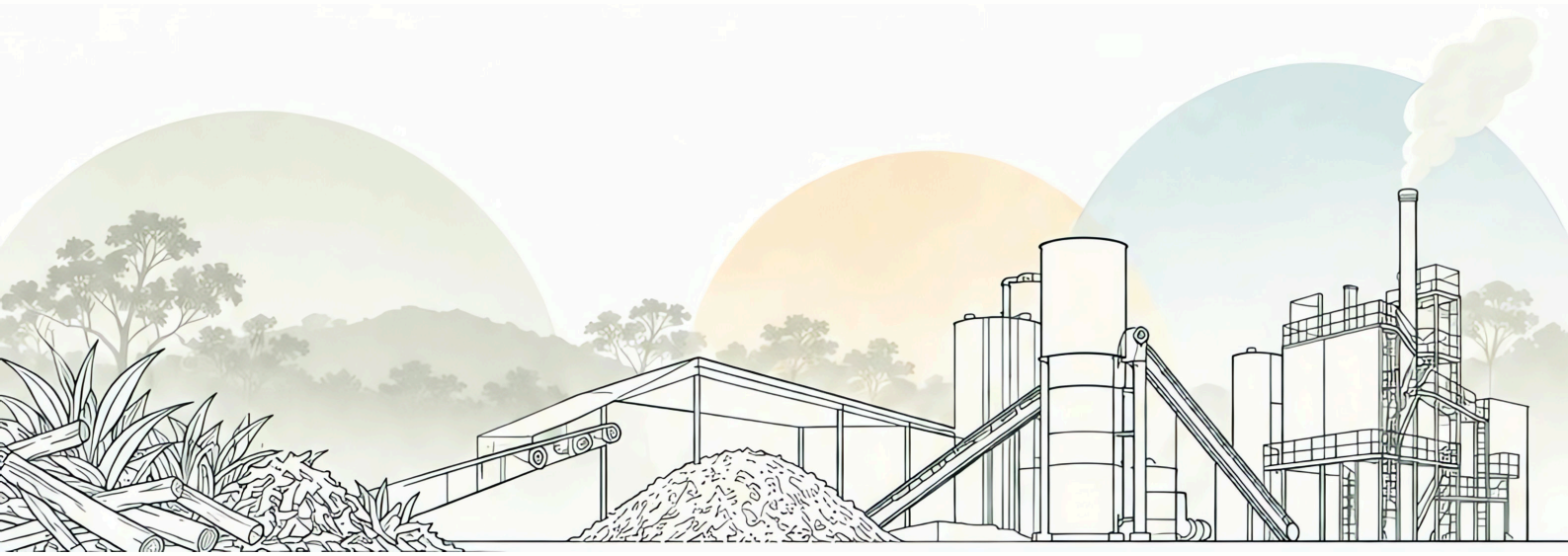
The pathway to national scale

- Greater Accra first: the pilot factory, then a four-factory cluster
- Expansion into the Eastern Region on mixed agricultural residues
- A national programme of up to 48 standardised pellet factories
- Verified emission reductions under Ghana's Article 6.2 framework

OLAMES is building practical partnerships — with assemblies, landowners, industry and investors — to turn local biomass residues into clean industrial energy.

Building a practical bridge between biomass handling and clean industrial growth.

OLAMES is McJones Energy's waste-to-energy platform for structured biomass aggregation, pellet production and industrial decarbonisation.



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Partnership Enquiries

McJones Energy Ltd
P. O. Box KB 232,
Korle-Bu, Accra.

E. info@mcjonesenergy.com
W. www.mcjonesenergy.com
T. 00233 303 405 790