



ELECTRICITY

Pyrolysis process energy, with electricity generation where configured.



TWO FEEDSTOCK PATHWAYS. DIFFERENT ENERGY PROFILES.

Tire processing

END-OF-LIFE TIRES

Feedstock: Scrap passenger, truck, and fleet tires, subject to system design.

Energy pathway: Process gas may be usable in a generator after appropriate gas treatment.

Plan for: Tire-derived gas cleanup and generator compatibility verified for the specific tire feed.

Biomass conversion

WOOD AND PLANT RESIDUES

Feedstock: Wood chips, sawdust, corn stalks or cobs, soybean straw, or sugarcane bagasse, subject to system requirements.

Energy pathway: Process gas may be recovered for heat and/or electricity where included in the configuration.

Plan for: Moisture, particle size, gas cleanup, and generator performance matched to the biomass.

1 • FEEDSTOCK



2 • PYROLYSIS



3 • GAS CLEANUP



4 • POWER + MATERIALS

Self-sustaining operation. Potential power for your site.

The machine can use its own process gas to meet its operating energy needs without ongoing grid electricity. Where the system also includes electricity generation, available net power may serve facility loads. Export depends on utility approval, interconnection equipment, and local compensation rules.

START WITH THE VERIFIED NET-POWER NUMBER

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LET'S TALK

Concept overview only. The partner-provided material does not specify a verified generator model, rated capacity, gross/net output, startup demand, or feedstock-specific performance. Confirm all equipment, emissions, permitting, and utility requirements with the manufacturer and local authorities.

Plan for the power you can actually use.

The key is net electricity after startup and process loads—not generator nameplate alone.

How can pyrolysis make electricity?

POWER PLANNING QUESTION

Some configurations clean process gas (syngas) and use it as generator fuel. Confirm whether a generator and gas-cleaning system are included in the quoted package.

How much power will be available?

POWER PLANNING QUESTION

Request gross generator kW, net usable kW, and kWh per ton for each feedstock, with test conditions. Net output subtracts the electricity used by heaters, pumps, controls, dryers, and other equipment.

Are tires and biomass the same?

POWER PLANNING QUESTION

No. Gas composition and moisture or contaminant loads can differ. Ask for separate gas-quality data, cleanup specifications, compatible generator details, and maintenance requirements for tire and biomass operation.

Can I use or sell the electricity?

POWER PLANNING QUESTION

Behind-the-meter use may offset purchased power if net generation is available. Exporting to a utility requires local interconnection approval, protective equipment, and an acceptable compensation arrangement.

Can the machine power itself?

POWER PLANNING QUESTION

Yes. It uses its own process gas to meet its operating energy needs without ongoing grid electricity. Confirm any startup or backup-power requirements and whether the selected configuration also supplies surplus electricity.

What should I confirm before buying?

POWER PLANNING QUESTION

Verify what the quote includes, emissions controls, permits, maintenance and cooling needs. If grid-tied, confirm inverter and switchgear certifications and the local utility's interconnection requirements.

Before purchase, request a feedstock-specific performance proposal

- Guaranteed gross and net kW; expected kWh per ton and operating assumptions
- Gas composition, cleaning train, generator model, and maintenance schedule
- Any startup or backup needs, process loads, and net electricity available
- Emissions data, required permits, and grid-interconnection documentation

Electricity output, self-sufficiency, export potential, and economics are not guaranteed. They depend on equipment configuration, feedstock quality, operating conditions, site loads, permits, and utility rules.