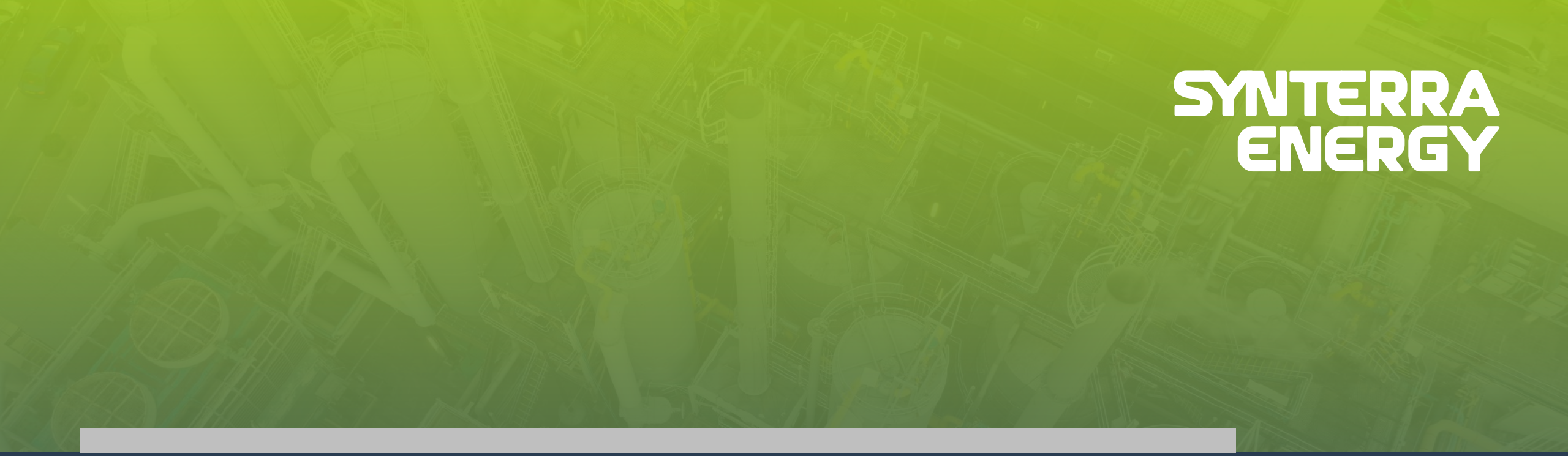


SYNTERRA ENERGY

Powering the Future.
Transforming Waste into Energy.

SYNTERRA ENERGY

The Global Challenge

- The world produces 2.1 billion tons of waste annually, and less than 20% is recycled.
- Energy demand continues to grow global electricity needs are expected to double by 2050.
- Current renewables (solar, wind) are intermittent and cannot provide reliable baseload power.
- Waste management and energy scarcity are converging global crises.

SYNTERRA ENERGY provides a unified solution: converting waste into renewable, storable, dispatchable energy.

Introducing SYNTERRA ENERGY

Who We Are

SYNTERRA ENERGY is a next-generation clean energy company delivering modular, zero-emission power solutions through advanced gasification and graphene solid state energy storage.

Our Mission

To transform global waste streams into renewable, storable, and scalable power redefining the future of energy.

Our Model

A circular energy ecosystem where waste becomes fuel, fuel becomes power, and elevates the quality of life across the planet.

SYNTERRA ENERGY

Our Groundbreaking Technology

Modular Gasification Plant System (MGP)

- Proprietary closed loop carbonization and gasification process.
- Converts solid waste into syngas, fuel oil, carbon black, and electricity.
- Zero emissions through ionized air filtration and carbon capture.

Graphene Solid-State Batteries

- Non Lithium, Scalable Storage with no fire risk.
- Long Duration Power 20 year life, 500,000+ cycles, 99% efficiency.
- Scalable & Adaptive modular design from MWh to GWh systems.
- Sustainably Built 100% recyclable, lowest lifetime storage cost.

The SYNTERRA Process

Feedstock Intake	Gasification	Energy Conversion	Battery Storage	Power Delivery
Tires, Tanker Sludge, MSW, Plastics, Biomass, Medical Waste	Waste converted to syngas using proprietary zero emission process	Syngas condensed into clean fuels and used to generate electricity	Electricity stored in graphene solid state batteries	Clean, continuous, dispatchable energy delivered to the grid or off grid users

Outputs:

Fuel oil

Electricity

Carbon black

Metals

Carbon credits

Key Advantages

Feature	Benefit
Zero Emissions	Closed loop carbon capture system eliminates pollutants.
Baseload Renewable Power	24/7 energy production unlike solar or wind.
Multiple Revenue Streams	Energy, fuels, carbon credits, and material recovery.
Scalable & Modular	Compact footprint, expandable processing lines & BESS Power
Circular Economy Integration	Turns waste into power, power into security and enablement.
Advanced Energy Storage	Graphene BESS ensures reliability and resilience.

SYNTERRA ENERGY

Market Applications

Ports & Shipping	Convert tanker sludge and waste oil into energy.
Industrial Zones	Energy independence and waste remediation.
Mining & Agriculture	On site power and waste to energy integration.
Municipal Waste	Sustainable waste management for cities.
Off-Grid / Islands	Build local, renewable power ecosystems.

Project Economics

CAPEX:

Base 14 Ton/Hour Plant Cost Starting at $23.5M* USD
Full Deployment in 12 Months
(*includes 10 MW NexEnergy BESS)
Achieves Generation of up to 10-15 MWH Firm Power depending on Feedstock

Scalable:

Expandable up to 56 tons/hour within one year.

Revenue Sources:

- Power Purchase Agreements (PPAs)
- Carbon credits
- Sale of recovered fuels and byproducts
- Battery system leasing or ownership models

ROI Drivers:

- Multi revenue ecosystem
- Low operating costs due to energy self sufficiency
- Strong ESG and carbon credit positioning

SYNTERRA VS Solar & Wind

Superior Financial Performance

5x Lower Capital Cost (CAPEX)

A Synterra plant costs an estimated $20M, versus $68M for solar or $55M for wind.

$68M Solar / **$55M** Wind

$20M Synterra

8x Faster Payback

Achieve return on investment in less than 1 year, compared to 8-9 years for alternatives.

8-9 Years
(Solar & Wind)

Less than 1 Year
(Synterra)

6x More Revenue Streams

Synterra generates income from 6 sources, while solar and wind only produce power.

Power Only
(Solar & Wind)

6x Revenue Streams
(Synterra)

Unmatched Operational Efficiency

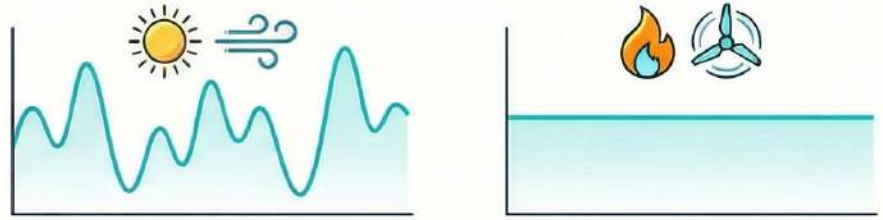
100x Smaller Land Footprint

300+ Acres
(Solar)

3 Acres
(Synterra)

Synterra requires just 3 acres, freeing up land compared to 300+ acres for solar.

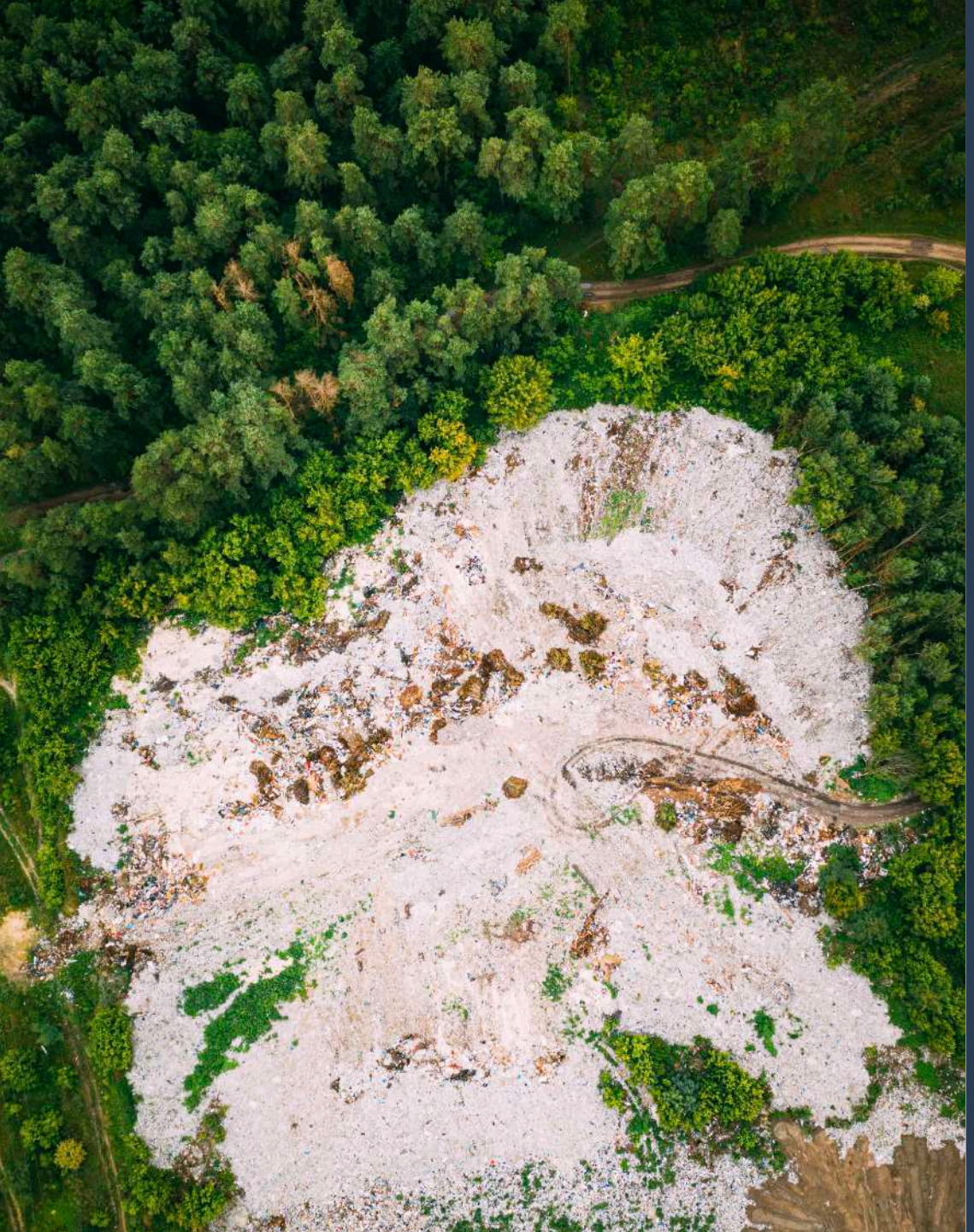
Firm & Stable Power Output



Intermittent/Variable Output
(Solar & Wind)

Firm & Stable Output
(Synterra)

Delivers consistent energy, unlike the intermittent or variable output from solar and wind.



SYNTERRA ENERGY

Environmental Impact

- Zero Emission Operation through closed loop ionized gas cleanup.
- Carbon Capture: CO_2 converted into stable solids or reused in processes.
- Waste Reduction: Eliminates landfilling and incineration.
- Sustainability: Enables circular economy for energy, waste, and materials.
- Carbon Credits: Each facility generates verified credits for investors and operators.

Competitive Advantage

SYNTERRA ENERGY	Traditional WtE / Incineration
Zero emissions	High CO_2, SO_2, and NO_x output
Multiple outputs (fuel, power, credits)	Single energy output
24/7 baseload renewable	Intermittent or combustion dependent
Modular, scalable footprint	Large, fixed installations
Integrated BESS	No energy storage or grid balancing

SYNTERRA ENERGY

Business Model

Building scalable modular Recovery and Energy plants enabling regional deployment and long term energy infrastructure growth

DBOO Model

Design, Build, Own and Operate.

Revenue Streams

Energy sales, carbon credits and recovered materials.

Partnership Model

Joint ventures, licensing and EAAS and PPA agreements.

Financing Structure

Blended equity, debt, Bonds and ESG linked capital.

Powering an energized cleaner world by turning waste into sustainable, storable energy.

SYNTERRA ENERGY stands at the intersection of **clean technology, affordable energy resilience and environmental restoration** transforming the global energy landscape one ton of waste at a time.

SYNTERRA ENERGY