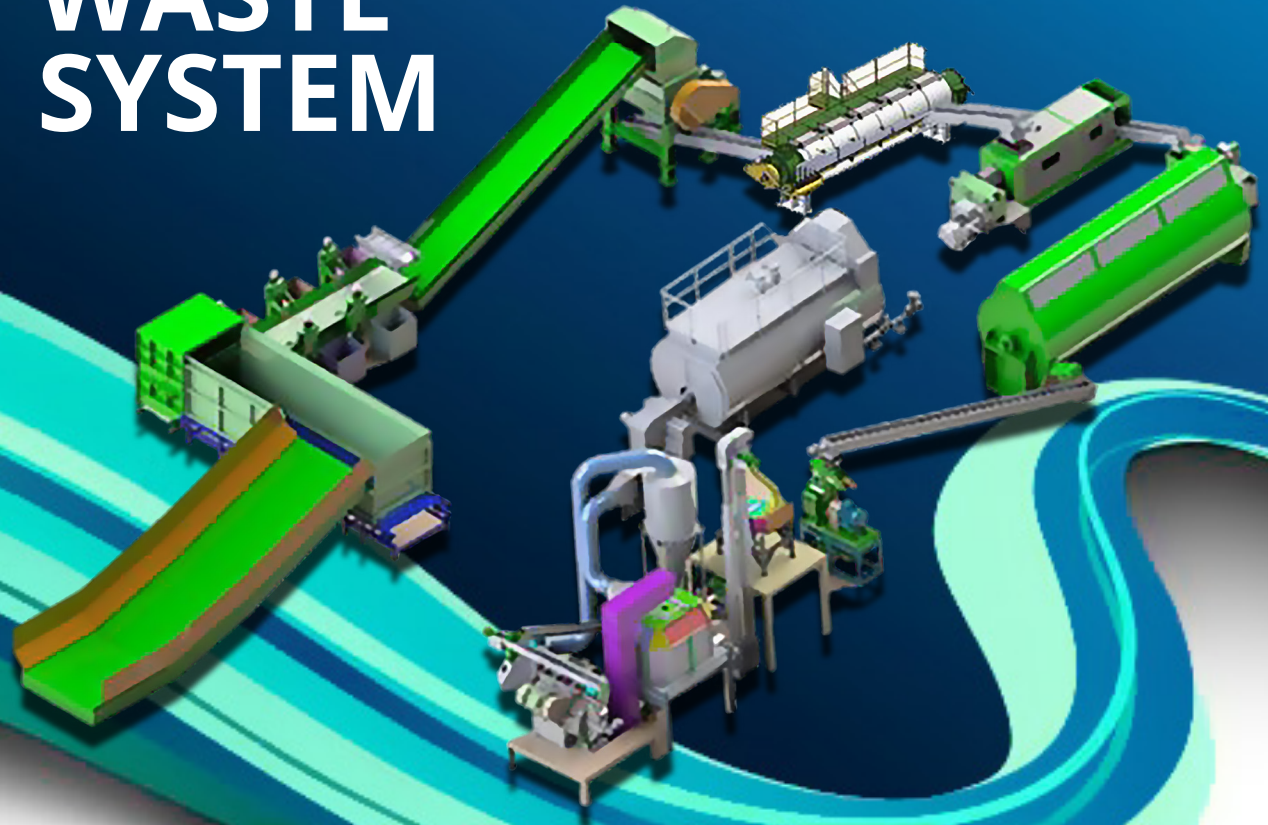


GEODYN SOLUTIONS, INC.

Transforming trash
or organic waste to
green products &
renewable energy

TOTAL WASTE SYSTEM



GEODYN
SOLUTIONS

**15 TON-PER-HOUR
TOTAL WASTE SYSTEM.**

■ Total Waste Solution

Landfilling solid waste produces greenhouse gas emissions and creates potentially deadly health risks to groundwater and surrounding environments.

Geodyn Technologies Inc. (“Geodyn”) are the makers of the world’s most innovative waste processing systems that sequester carbon and nutrients rapidly, producing useful products in minutes.

Geodyn’s Total Waste System (“TWS”) uses a patented disruptive technology to turn any solid waste material (municipal waste, organic waste, sewage sludge, etc.) into marketable products with radiant heat. This process kills all harmful bacteria without burning or releasing any harmful emissions. Permitted for operation in California, it is truly the only system that can deliver 5% moisture-content finished product at rates of 15-tons per-hour.

Organic waste (food waste, green waste and crop residue) can be quickly processed into soil amendments, eliminating the time and space required by composting. This system produces an odor free product, while extracting and purifying liquids for irrigation. Thus it also eliminates the odors and water use inherent to composting.

Geodyn eliminates the need for trash incineration and landfilling by turning municipal solid waste into a “green” coal-substitute, effectively sequestering all carbon and BTU value.

■ The Process

Turns this...



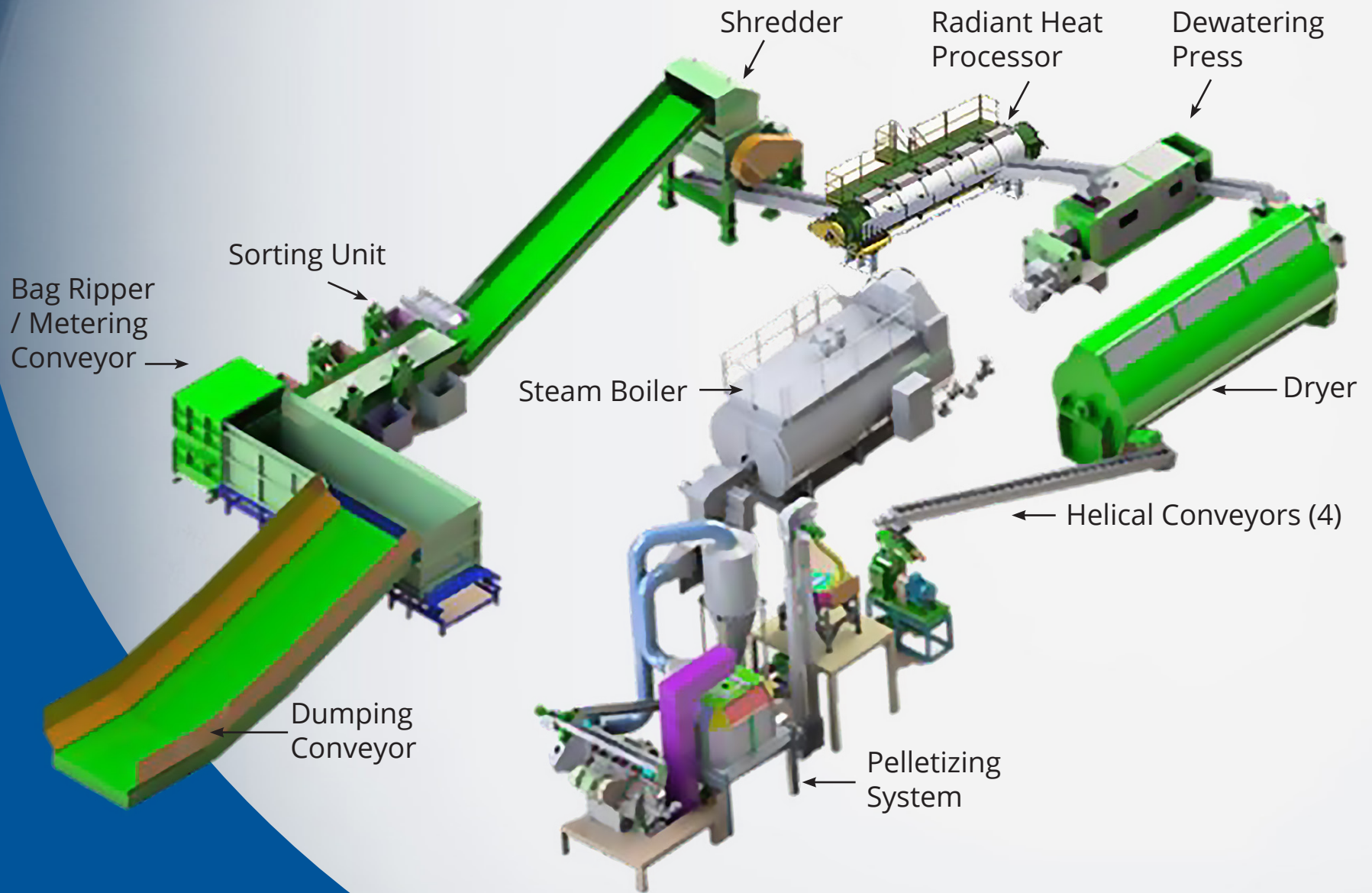
Municipal Solid Waste

Into this ...



8,000 BTU coal-substitue

15tph TWS Legend



Proprietary Design The Shredder



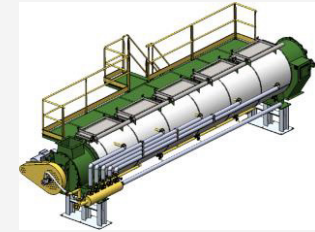
Proprietary Designed Geodyn Shredder

All of our processing systems start with shredders featuring an innovative design. All Geodyn shredders produce uniformly sized material, while generating less heat and lower RPMs. Consistently tested on the toughest materials (palm fronds and plastic sheeting), our shredders are sized to produce 1/2 to 15 tons-per-hour ("TPH") in uniform sizes of 50 millimeters or less. This is vital to the process as a small uniform size allows our system to quickly kill bacteria, viruses, and odors.

■ Radiant Heat Processor



Radiant Heat Processor

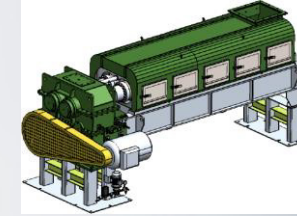


After shredding, the material goes to the Geodyn Radiant Heat Processor to eliminate bacteria, viruses and odors with a zero carbon foot print.

■ Dewatering Press



Dewatering Moisture Extracting Press



The material then moves to the Geodyn Dewatering Press to remove excess liquids. This process is used to reclaim and purify water, removing suspended solids and treating the liquid for reuse as irrigation, dust control, truck cleaning or other on-site or off-site uses.

■ Indirect Radiant Heat Processing Dryer



Capable of handling 85%+ moisture-content material, the Geodyn Radiant Heat Processing Dryer removes residual moisture while sequestering all carbon and nutrients, producing a low-moisture (5% to 15%, as desired) stable material. Animal feed or fertilizer from organics. A coal-substitute from trash.

Proprietary Designed and Patented Dryer

■ Indirect Radiant Heat Processing Dryer

A grinder is used to prepare end products if pellets or soil amendments are desired. The pelletizer and cooling tower create 5% moisture-content pellets, impervious to ambient moisture.



■ Total System Power Requirement: 570kWh



Fifteen ton per hour (15 TPH) Geodyn System, including Geodyn Pelletizer requires 570 kWh. Without the pelletizer, the system requires only 330 kWh.

The 500hp Boiler System

Operating on 87psi of dry steam, produces the encapsulate heat used by our patented process.



500 Gallon water feed tank



500 Horsepower Boiler

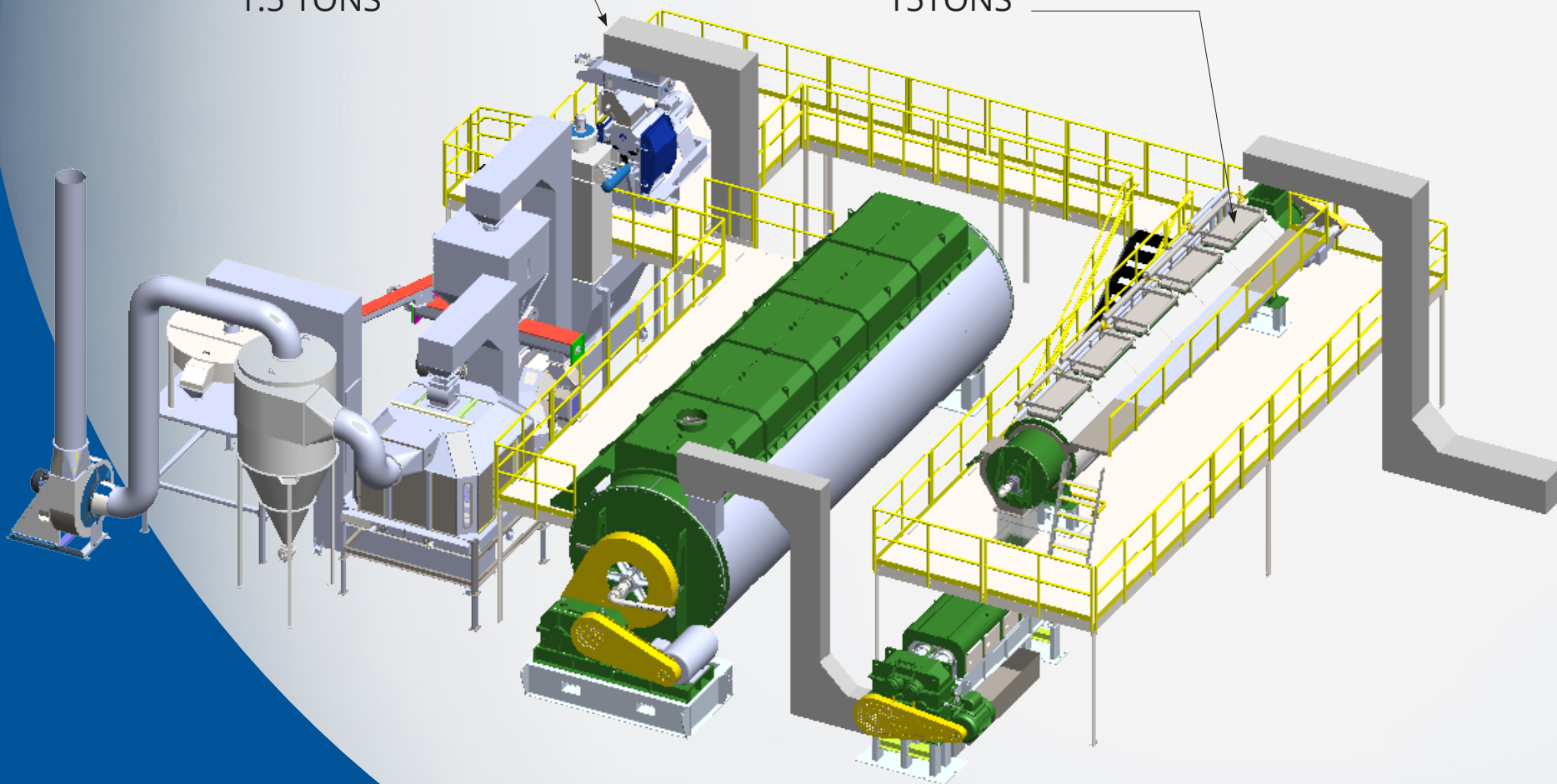


Condensate Pumps

Geodyn Delta Configuration Right Angle View

HAMMER MILL
ESTIMATE WEIGHT
1.5 TONS

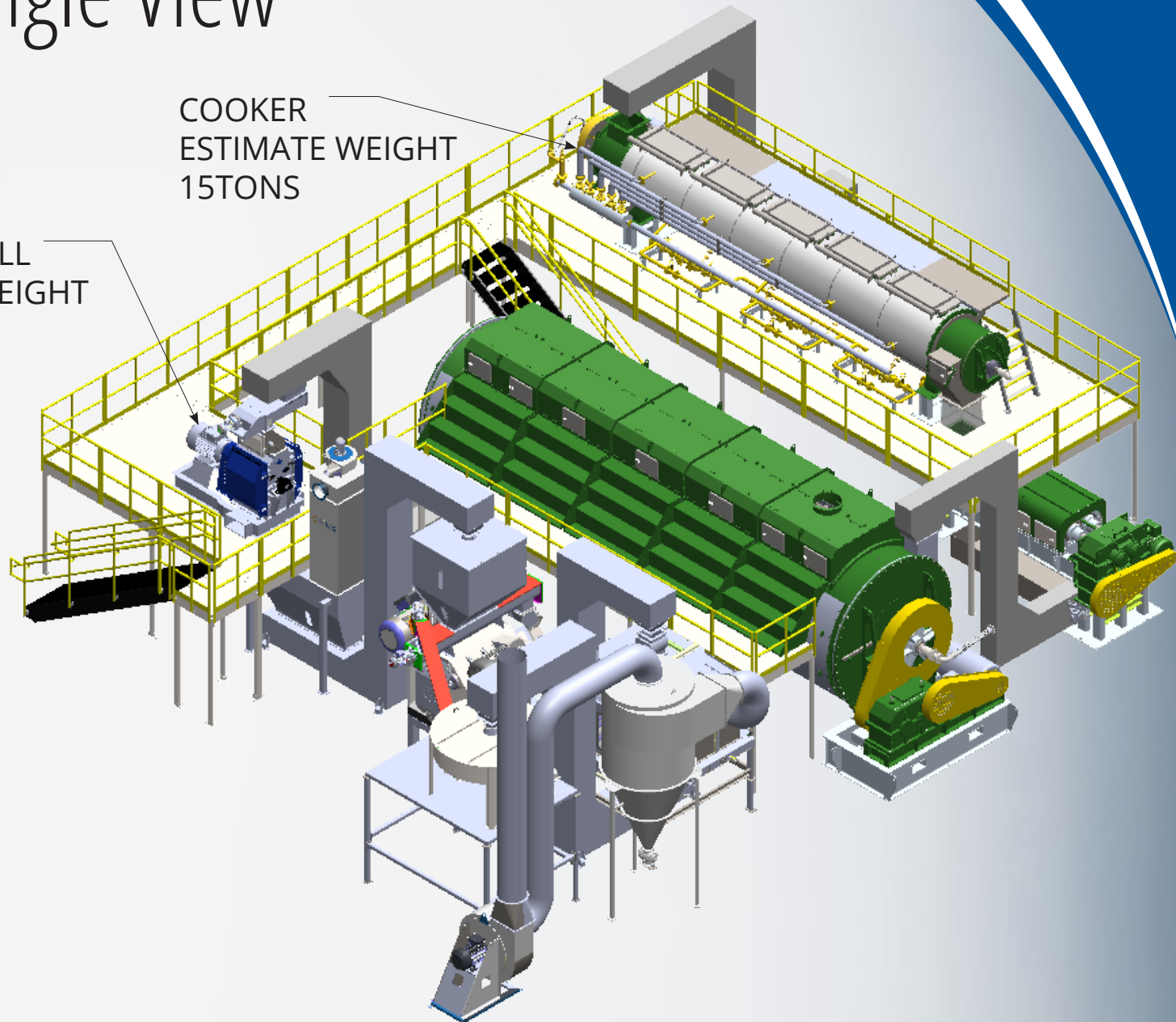
COOKER
ESTIMATE WEIGHT
15TONS



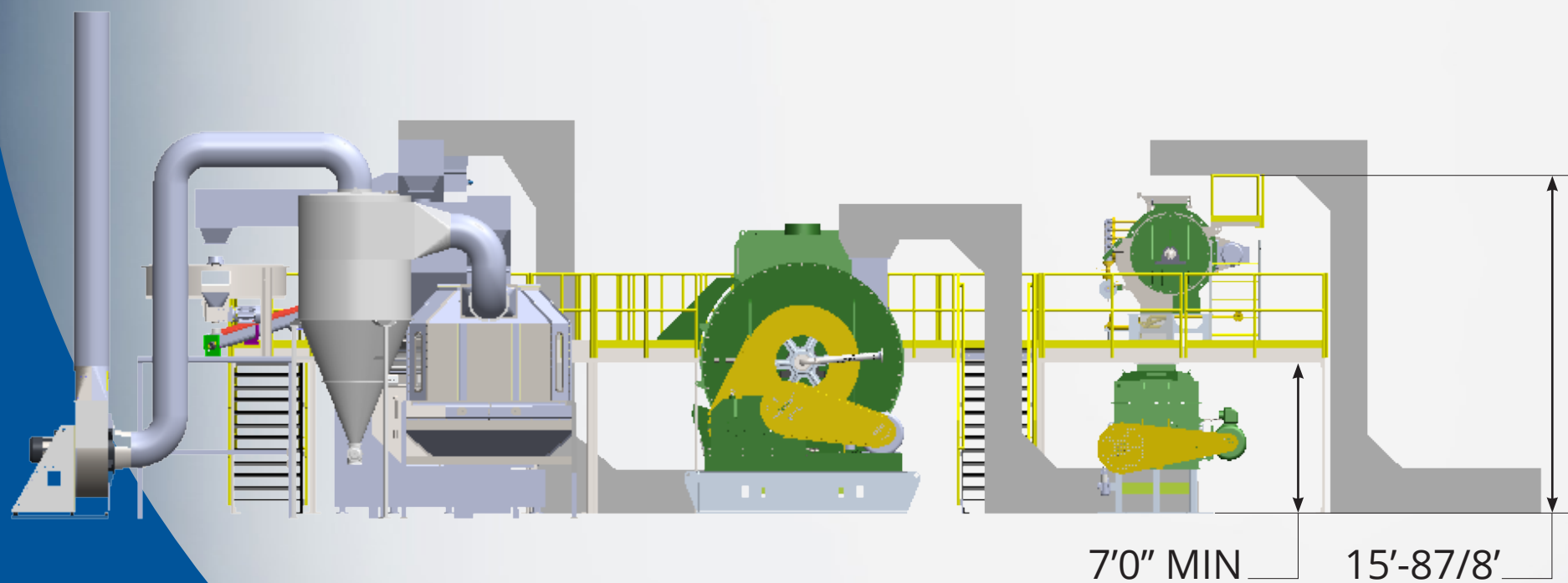
Geodyn Delta Configuration Left Angle View

HAMMER MILL
ESTIMATE WEIGHT
1.5 TONS

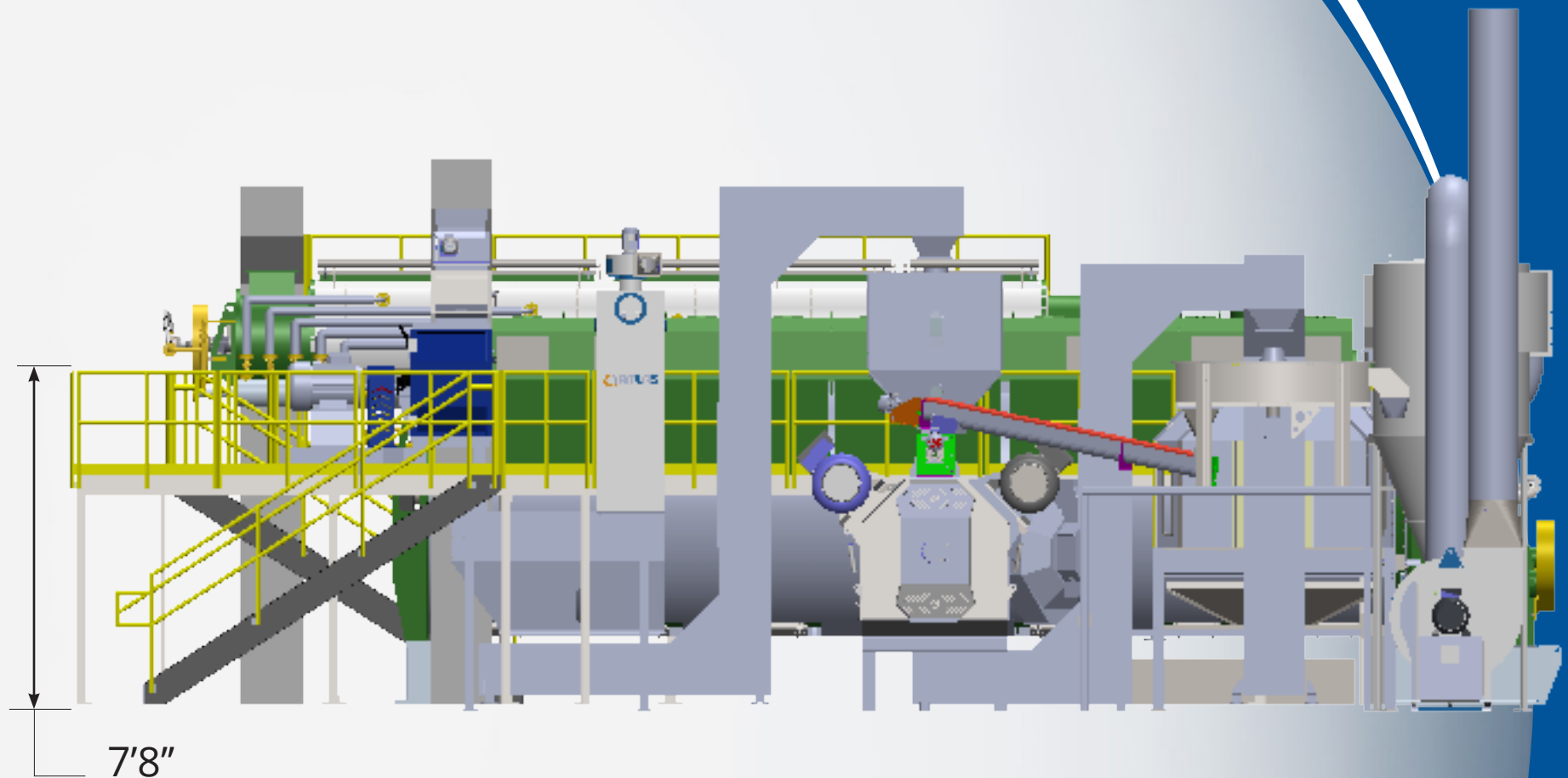
COOKER
ESTIMATE WEIGHT
15TONS



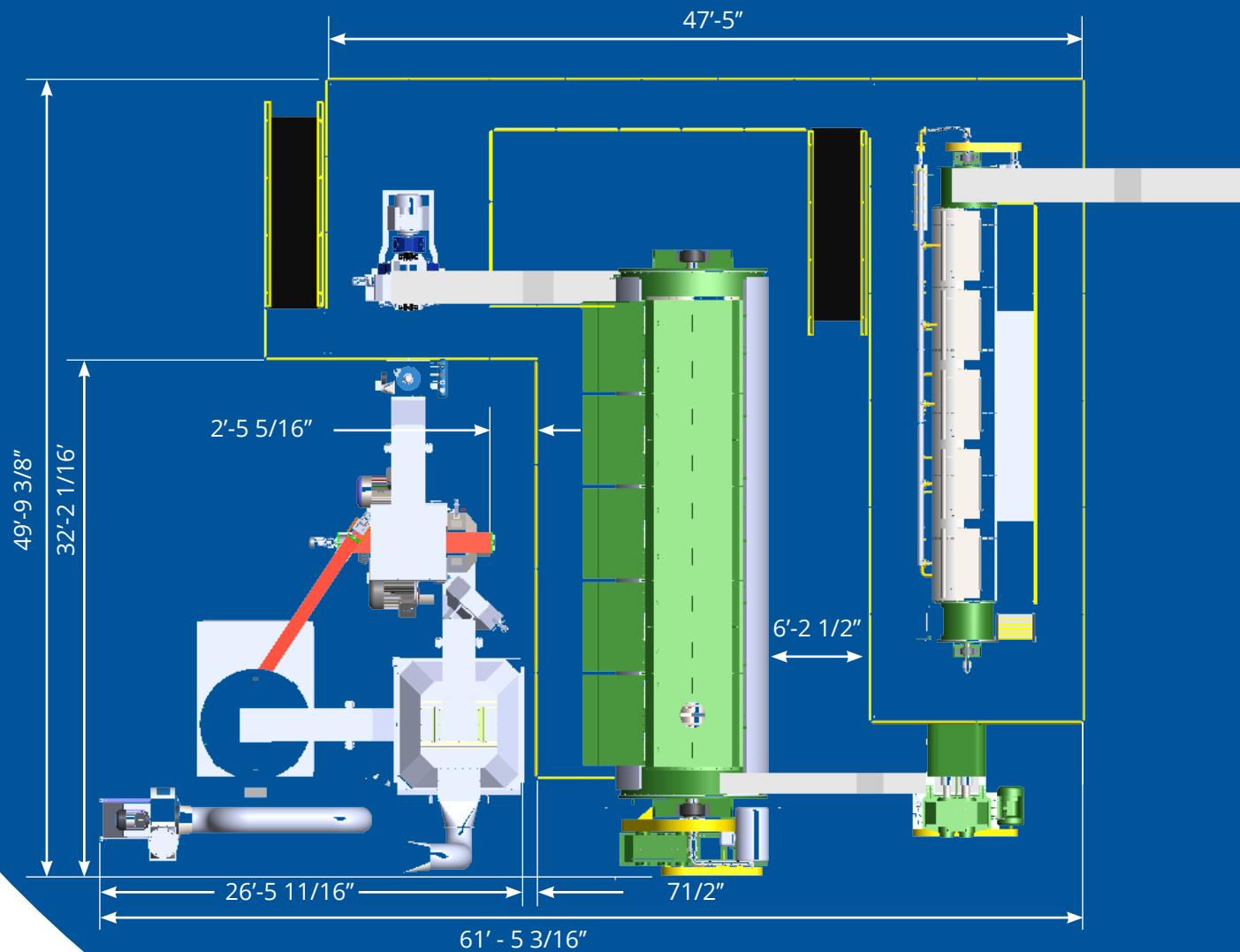
Geodyn Delta Configuration Front View



Geodyn Delta Configuration Left Side View



Geodyn Delta Configuration Top View

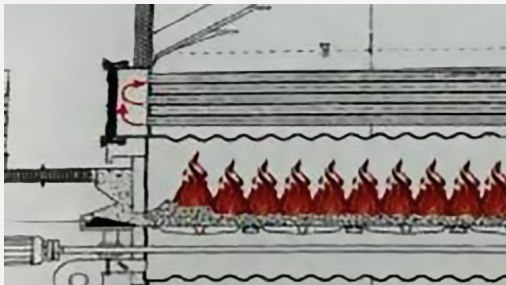


Geodyn Pellets to Energy in Boiler Application



This steam boiler is designed to utilize Geodyn pellets produced from:

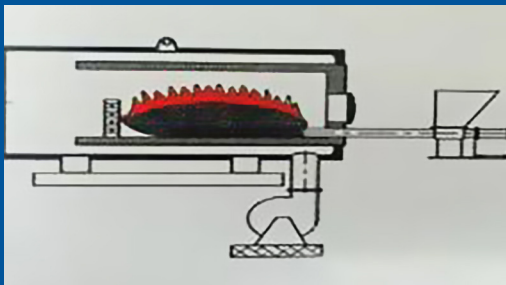
- *. **Food/Green Waste**
- *. **MSW (Municipal Solid Waste)**
- *. **Bio-Solids**
- *. **Animal Waste**
- *. **Wood/Green Waste**



Pellets will have calorific values of ranging from 4,000 to 5,300 Kcal/Kg.

This boiler teams with a hydrogenator to convert steam into electricity at a 70% efficiency rate.

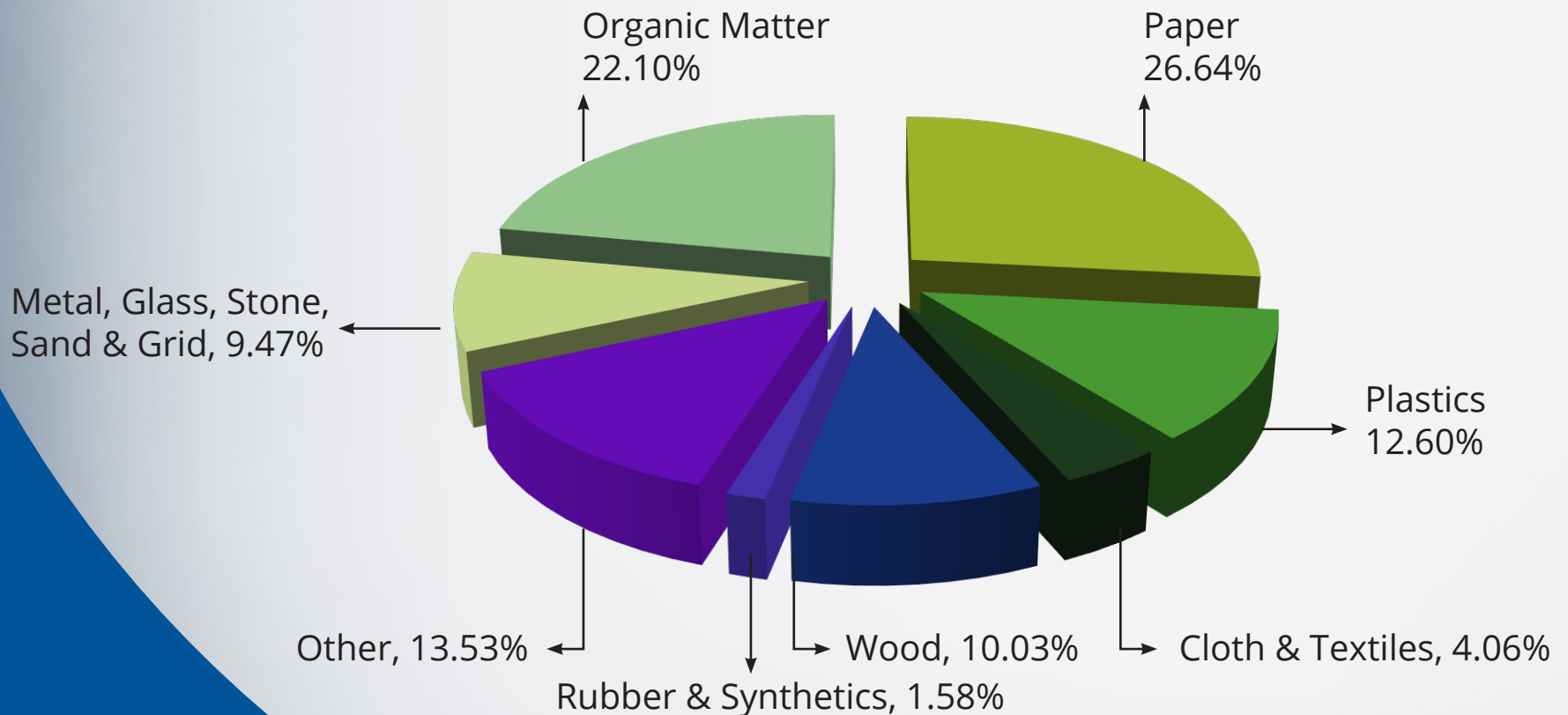
1 Kg of Geodyn Pellets = 1 to 1.2kW of electricity



Typical Pellet Composition & Calculated Calorific Value



1Kg Pellet : Consisting of processed matter in homogenised form.
Calorific Value : 4,496 Kcal/Kg
Moisture Level : 5 %



Fuel Comparison

Item	NG	Diesel	Coal	Geodyn
Heat Value	4,496KCal/kg	8,700KCal/kg	10,200KCal/kg	5,000KCal/kg
Boiler Efficiency	88%	88%	74%	80%
Density Kg/m3	0.74	830	833	719
CO ₂	1.96%	3.06%	1.78%	<1.00%
SO ₂	--	3.25%	0.5%	0.07%
Nox ppm	1.87	3.67	2.94	1.02

PROJECTED FULL TURN-KEY WITH INSTALLATION
15 TPH SYSTEM
AVERAGE ROI: 3 YEARS
PROJECT SPECIFIC ROI ON REQUEST



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