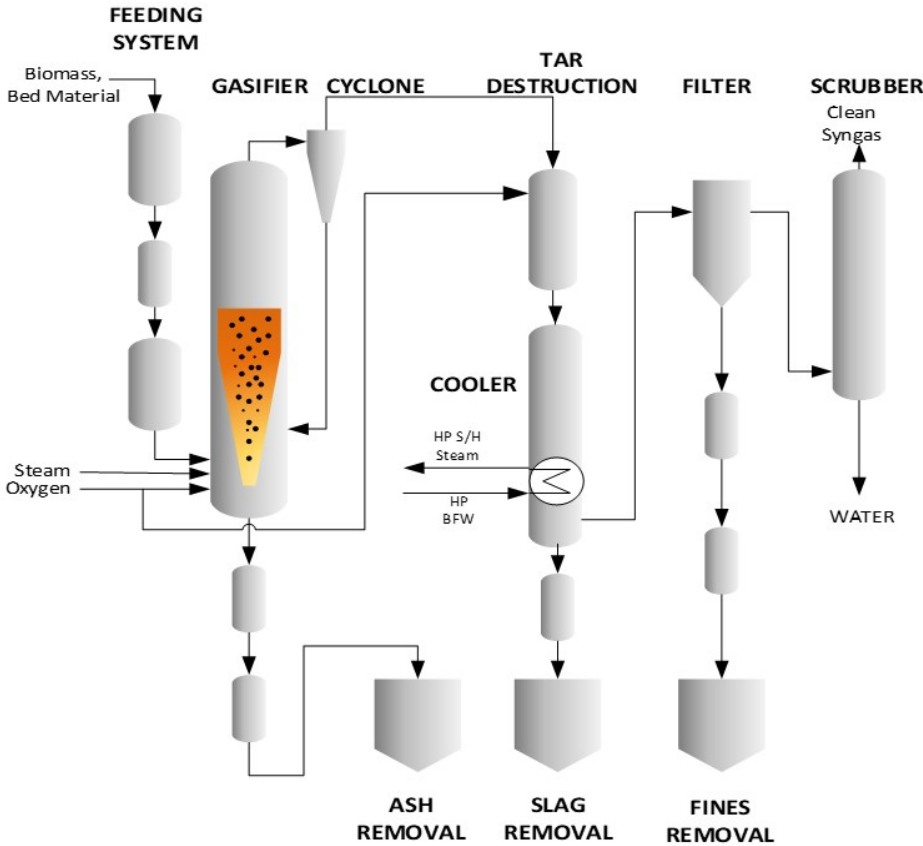




The SunGas S1000

Battery Limits and Specifications



Gasification Island

- Efficiency:
 - ✓ 95 - 98%+ Carbon Conversion
- 100' X 180' approximate footprint
- Turndown to 60% capacity
- Global Equipment Supply Chain
- Based on GTI's U-Gas® Technology

The SunGas gasification system produces the clean syngas required to produce renewable fuels and chemicals.

- Evolved and matured over decades through pilot, demonstration, and commercial projects around the world
- Commercial wood gasification reference plant operating in Europe since 2008

Input	Quantity	Specifications
Woody Biomass	Nominal 1000 tons/day	< 1 ½ inch-wood Chips, Particle < 3 mm (20 wt.% Max.), Particle < 1 mm (5 wt.% Max.) Moisture: 7-17 wt.%, Ash < 6 wt.% Dry Basis, Na+K < 0.4 wt.%
Oxidants (Oxygen, Steam)	Oxygen: 530-590 tons/day Steam: 300-360 tons/day	Oxygen purity 95 - 99 % (Depends on Final Product) LP Steam at 200 psig
Bed Material	10 - 15 tons/day	Tailored to Biomass Constituents
Electricity	1.6 MW	Excludes ASU, Gas Compression
Inert Gases (CO ₂ & N ₂)	CO ₂ : 180 tons/day or N ₂ : 86 tons/day	CO ₂ : Dry (Purity: >99%, no H ₂ S) N ₂ : up to 2% O ₂

Output	Quantity	Specifications
Gross Dry Syngas	45-55 MMSCFD	H ₂ : 30 - 35%, CO: 35 - 45%, CO ₂ : 20 - 30%, CH ₄ <0.2%
Superheated Steam	720 - 820 tons/day	900 psig, 650 ° F
Wastewater	180 - 220 USGPM (varies with biomass product)	Inert, non-hazardous disposal as long as no toxic chemicals in woody biomass feedstock
Waste Ash	30 - 60 tons/d	Landfill Disposal