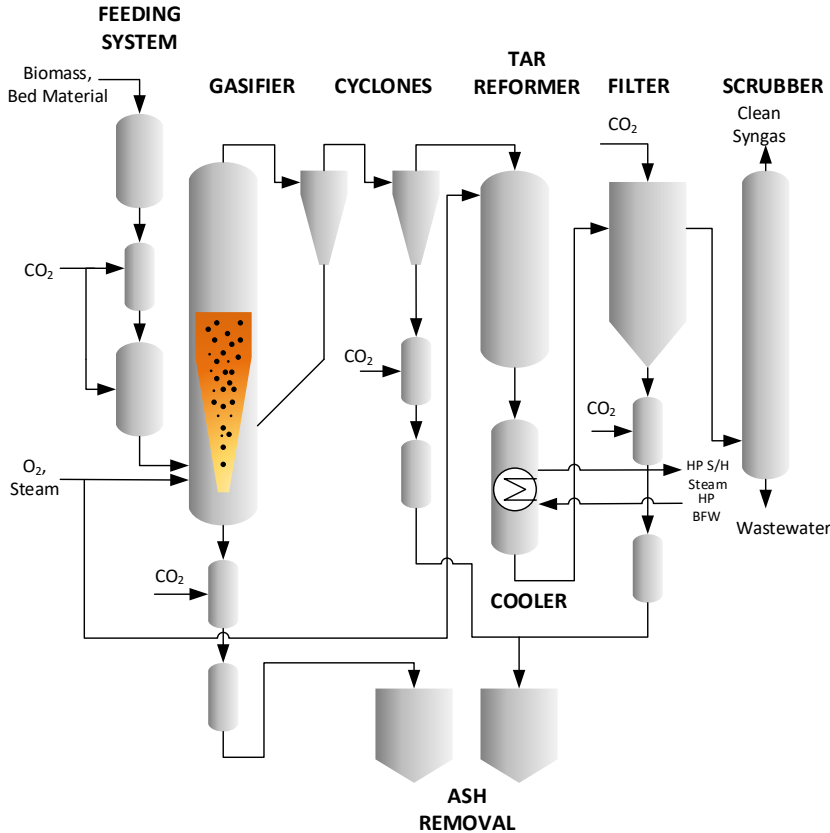




The SunGas System 1000™ Battery Limits and Specifications



Gasification Island

- Efficiency:
 - ✓ 95 - 98%+ Carbon Conversion
- 135' X 55' approximate footprint
- Turndown (60%)
- 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 2007

Input	Quantity	Specifications
Woody Biomass	Nominal 1000 (s)tons/day	< 1 ½ inch-wood Chips, Particle < 3 mm (20 wt.% Max.), Particle < 1 mm (5 wt.% Max.) Moisture: 15 – 20 wt.%, Ash < 5.5 wt.% Dry Basis, Na+K < 0.3 wt.%
Oxidants (Oxygen, Steam)	Oxygen: 340 - 360 (s)tons/day Steam: 360 (s)tons/day	Oxygen purity 95 - 99 % (Depends on Final Product) LP Steam at 200 psig
Bed Material	5 - 10 (s)tons/day	Tailored to Biomass Constituents
Electricity	175 kW	Excludes ASU, Gas Compression
Inert Gases (CO₂ & N₂)	CO ₂ : 135 (s)tons/day N ₂ : 20 (s)tons/day	CO ₂ : Dry (Purity: >90%, no H ₂ S) N ₂ : up to 2% O ₂

Output	Quantity	Specifications
Dry Syngas	40 - 45 MMSCFD	H ₂ : 36 - 38%, CO: 27 - 30%, CO ₂ : 28 - 30%, CH ₄ 4-6%
Wastewater	70 - 80 USGPM (varies with biomass product)	Inert, non-hazardous disposal as long as no toxic chemicals in woody biomass feedstock
Waste Ash	55 - 60 (s)tons/d	Landfill Disposal