The TRU continuously converts organic materials to syngas, steam and carbon char.
TRU - Technology Overview

• 20 years of engineering, testing and upgrades (US Patent 6,758,150)

• Meets all regulatory and performance standards set by US EPA under the “Clean Air Act”

• Proven compliance in converting a variety of organic materials to commercial products

• Version 5.0 available in 1000, 2000 & 4000 pound per hour systems (stationary and transportable)
TRU – Revenue Streams

• Tipping Fee – money paid to process material
• Biochar – valuable process by-product
• Steam – through waste heat recovery
• Electricity – from a steam turbine generator
• Carbon Credits – reduces greenhouse gases
Summary for the Next Economy

• TRU can be integrated into new or existing infrastructure to convert organic materials to syngas, steam and carbon char.

• TRU is a proven process to produce “Green Power”, high quality carbon and reduce greenhouse gases for global markets.

• Biochar serves as a long-term form of sequestered carbon.
TRU – Wide Range of Applications

- Agricultural-Waste to energy and Biochar
- Process steam or compressed air for chillers and infrastructure
- Forest-Restoration (including mobile) final step in insect kill remediation and forest fire fuel processing
- Industrial waste/soil remediation
- CO2 and Heat for Greenhouses
- Producing steam or electric power up to 2.7MW
Natural gas, fuel oil, or propane fires burners (minimum 5 Btu recovered for each Btu of input)

Syngas is immediately ignited versus condensed

System use of standardized components means less down time for maintenance.

“Carbon neutral” footprint
TRU - Prineville Oregon
TRU - Process Overview

- Continuously converts organic materials to syngas, steam and Biochar
- Automated control and sensors ensure optimum system performance
- Fully integrated safety interlocks on equipment
- Operator protection and system monitoring
Touch Screen PLC
TRU - Features & Benefits

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<th>Process Feature</th>
<th>Benefit</th>
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<td>Feedstock Flexibility</td>
<td>Process MSW, Ag Waste, Tires</td>
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<td>Waste Heat Recovery</td>
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<td>Cap-n-trade opportunities</td>
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<td>Continuous Process</td>
<td>No batch loading / unloading</td>
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The Thermal Recovery Unit (TRU)

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