



**enVerde**

**Dave Goebel**

**CEO and Founder**

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Office for Technology Commercialization

UNIVERSITY OF MINNESOTA

Driven to Discover<sup>SM</sup>

MN | CUP<sup>TM</sup>



g BETA



auri

Agricultural Utilization Research Institute



CLEAN  
TECH  
OPEN

Natural Resources  
Research Institute

UNIVERSITY OF MINNESOTA DULUTH

Driven to Discover<sup>SM</sup>

The world faces two major problems





What if everything  
could be used again?  
We take resources seriously.

**WM**  
WASTE MANAGEMENT

Find out how  
[wm.com](http://wm.com)





4.4

lbs



**2x**

**by 2050**



A glowing lightbulb with smoke rising from it, symbolizing an idea or innovation. The lightbulb is the central focus, with a warm orange glow emanating from its filament. Wisps of white smoke rise from the top of the bulb, suggesting a fresh idea or a process of development. The background is a soft, neutral grey, which makes the lightbulb stand out.

**1.7 Billion**





enVerde

















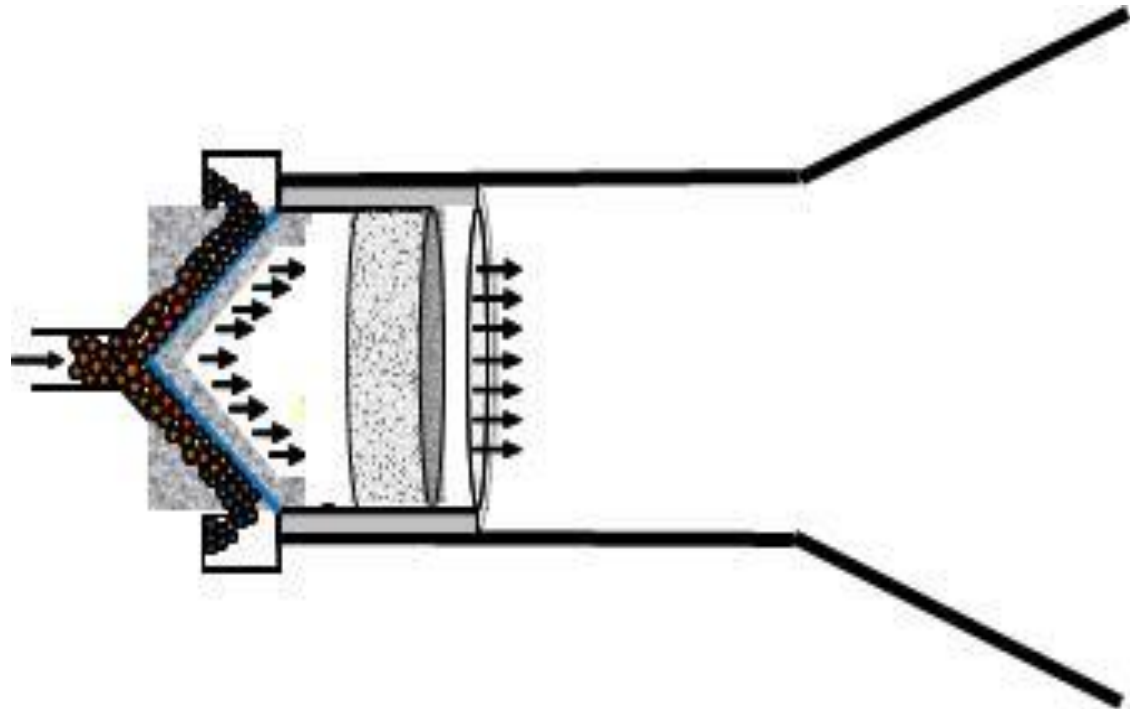
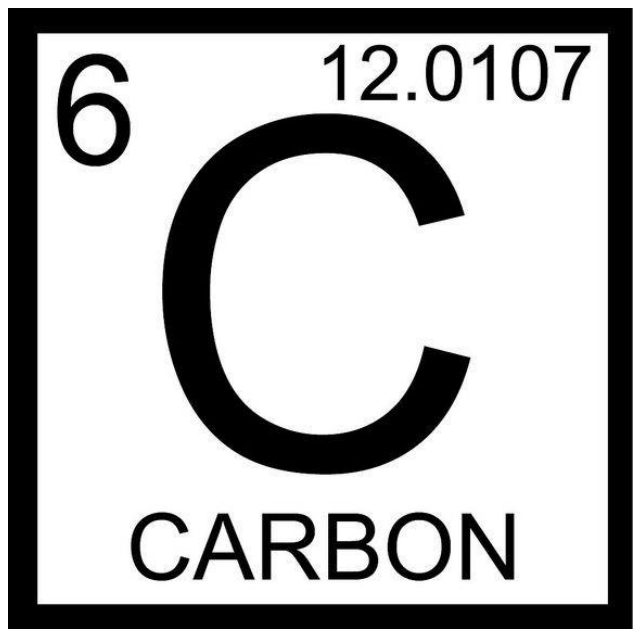


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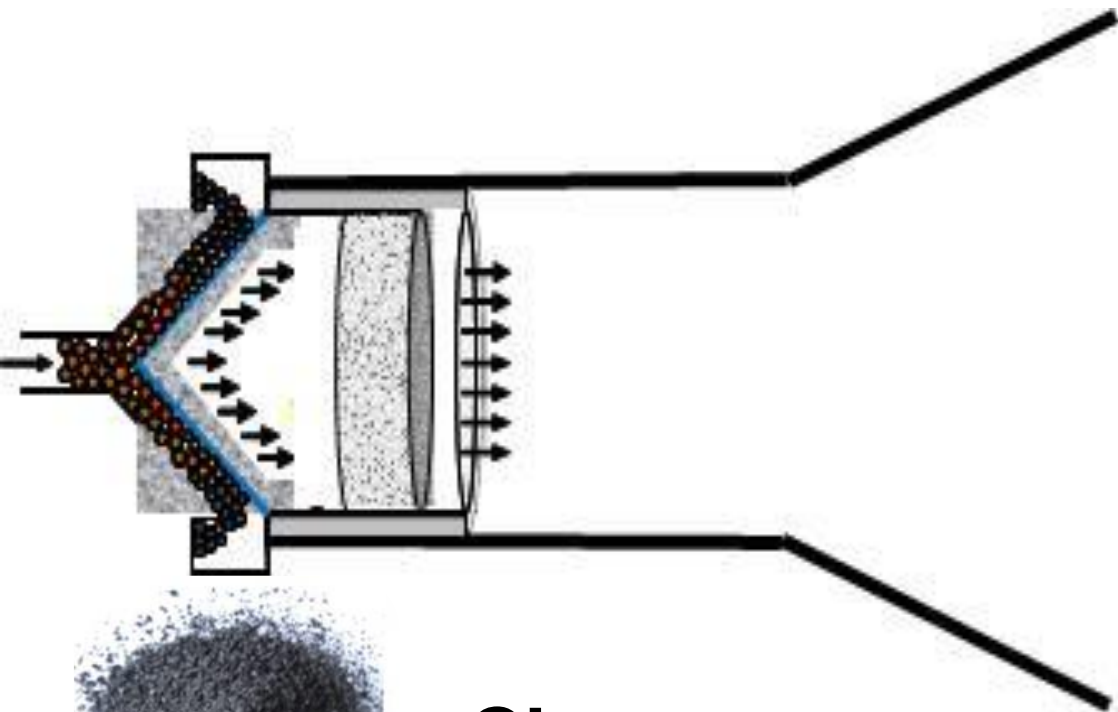
C

CARBON









**Char**



**Syngas**



**Heat**



**Green  
Oil**

**\$0.06** /kWh

**Waste** into **Royalties**

# 1 Megawatt

Powers **600** Homes

A row of wooden house-shaped blocks, with one pink block in the center and several green blocks on either side. The blocks are arranged in a slightly overlapping line, and the pink block is the central focus.

**\$500M**





**Dave Goebel**  
CEO and Founder



**Chuck Fortman**  
Supply Chain Leader



**Dr. Andrea Festuccia**  
Chief Scientist and Engineer



**Nancy Durand**  
Business and Operations Leader



**Dr. A. Russell Hoge**  
Lead Advisor



**Dr. Paul Dauenhauer**  
Advisor



UNIVERSITY OF MINNESOTA

**100 kWh**  
**Demonstration Plant**

**1 MWh**  
**Commercial Plant**



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