Problem: Global Plastic Waste

Crisis



Innovative Solar Technology

HELIOSTAT INTEGRATION

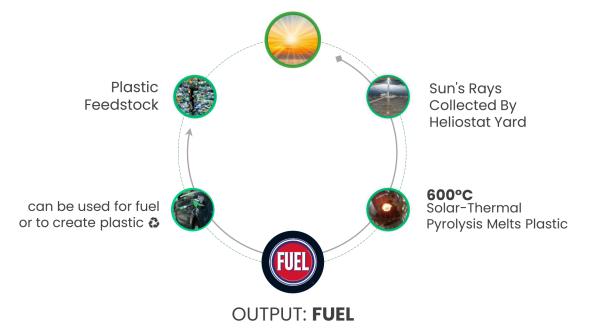
- Uses mirrors to concentrate sunlight
- Achieves necessary temperatures of 600°C for pyrolysis
- Prototype installed and tested on residential roof

PYROLYSIS PROCESS

- **1. Method:** Heating plastic waste in an oxygen-free environment
- **2. Output:** Produces fuel and reduces waste volume
- 3. Efficiency: Uses 40 kWh per ton of plastic

ENERGY EFFICIENCY

- Reduces reliance on traditional energy sources
- Sustainable and renewable energy solution



Solution: Simplified Heliostats Available

01.

03.

Off-the-shelf



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Environmental Impact

- Reduction in Landfill Waste: Significant decrease in plastic waste
- Lower Carbon Footprint: Solar energy integration
- Circular Economy: Converts waste into valuable fuel, reducing dependency on fossil fuels

Current Status and Future Plans

02.

- Prototype: Functional heliostat prototype currently being programmed
- Fundraising: Live on Netcapital.com to raise funds, SEC Reg CF Web portal
- Future Development: High-temperature
 Tesla turbine for enhanced efficiency

Potential Uses of Heliostat System

- RESIDENTIAL: Solar heating, electricity generation, reducing energy bills
- **INDUSTRIAL:** Process heating, power generation, reducing carbon footprint
- JEDI: Water desalination and distillation

American-Made Solar Prize Round 8

04.

- FOCUS: Innovative solar technology for sustainable pyrolysis and other use cases
- GOAL: Advance concentrated solar power in underserved markets, create a heliostat system that is commercially available and affordable

Contact:





simpleheliostat.com



recyclers-exchange.com