

Convergen Energy

“Producing Renewable Fuels and Power for Sustainable Businesses”



Convergen Energy creates a circular economy by processing non-recyclable industrial by-products that are converted into a fuel that is burned as a substitute for fossil fuels.



- ⇒ The fuel pellets are engineered to be combusted in solid fuel boilers and are designated as a “non-waste fuel made from non-hazardous secondary materials” by the U.S. EPA.
- ⇒ Convergen Energy has been supplying renewable fuels and power to businesses for over ten years.
- ⇒ Over one-hundred companies throughout the U.S. benefit from the CE circular economy which allows them to become landfill free and sup-



port corporate sustainability goals.

- ⇒ CE has diverted over 400,000 tons of non-recyclable industrial by-products from local landfills which has produced over 250,000 MW’s of renewable power. This is enough electricity to power almost 20,000 homes for a year.
- ⇒ Currently processing >7,000 tons per month of non-recyclable industrial by-products.

Convergen Energy

“MSW Handling and Feedstock Challenges”



MSW Challenges for Producing Alternative Fuels

- ⇒ Too much moisture
- ⇒ High levels of chlorine
- ⇒ Mercury, fluorine, and other contaminants
- ⇒ Low energy content (btu/lb)
- ⇒ Many, many sources of waste...
- ⇒ Variability, variability, variability...

Start with the end in mind...



Clearly defined product application requirements



Exact product specifications

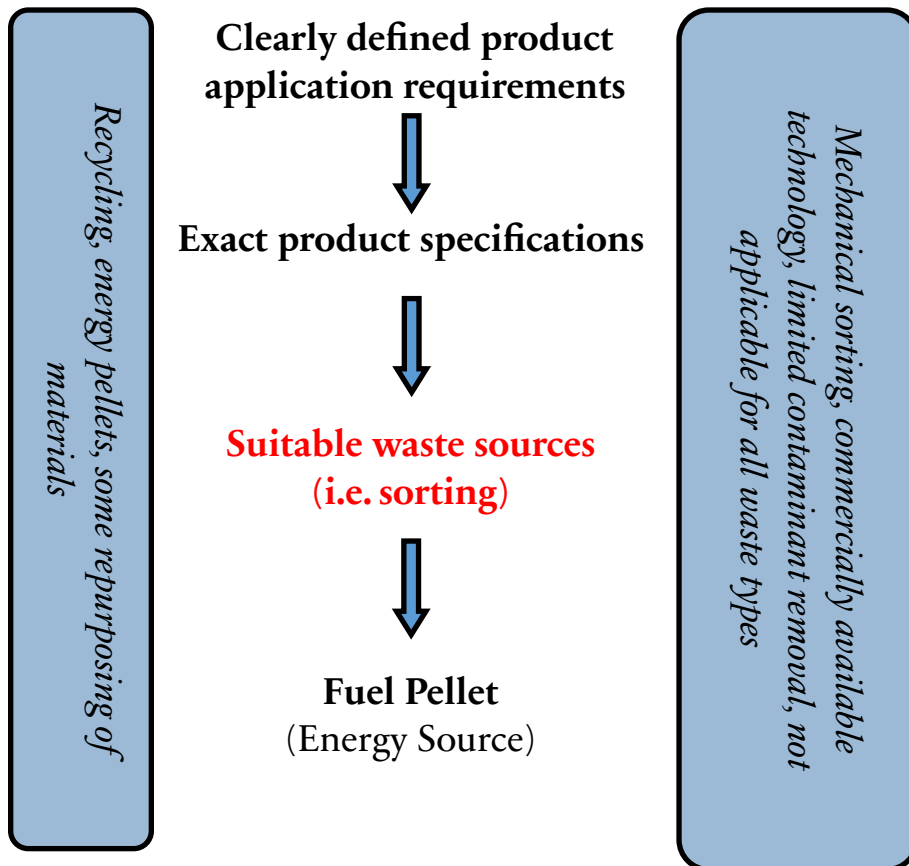


Suitable, sorted feedstock sources

- ⇒ Narrower scope of feedstocks vs MSW
- ⇒ Non-recyclable industrial by-products
- ⇒ Pre-screen all materials
- ⇒ Test for chlorine, mercury, etc.
- ⇒ Segregate and mix materials for engineered fuel recipe
- ⇒ Massive shredder systems
- ⇒ Metal removal
- ⇒ Pelletization
- ⇒ Cooling/Screening
- ⇒ Saleable finished product
 - Meets permitting requirements
 - Performs well in boiler
 - Low moisture
 - Low contaminants
- ⇒ Able to develop feedstock supply chain
- ⇒ Providing sustainability solutions immediately
- ⇒ Enables R&D and future technology commercialization

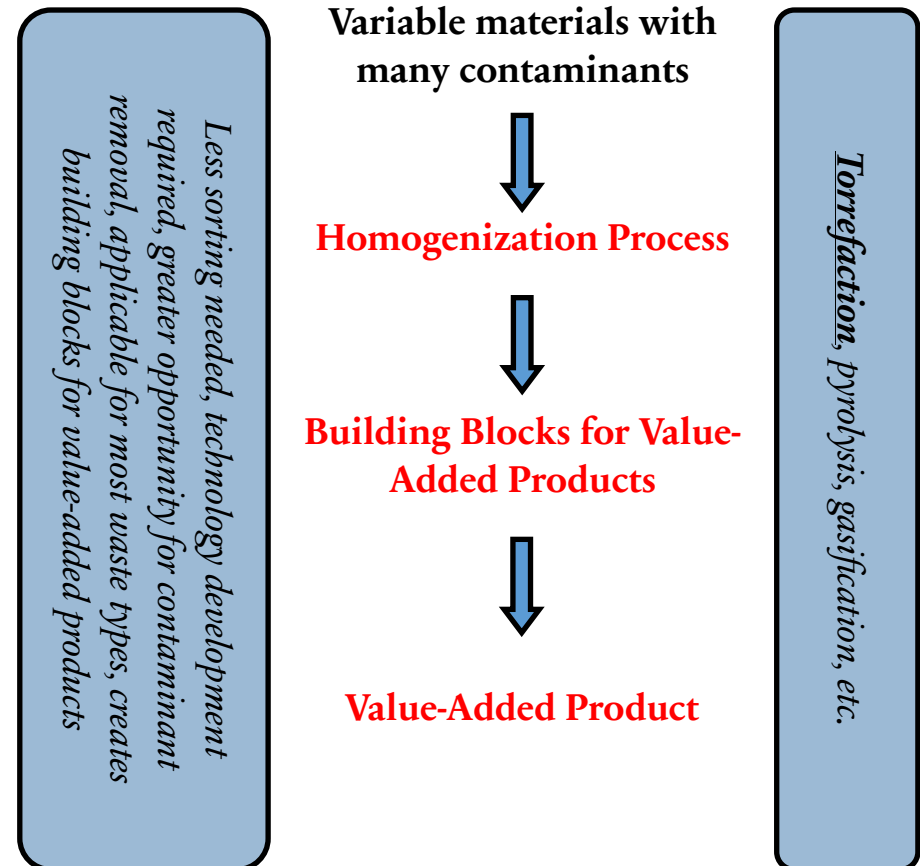
MSW is ultimately leading us in two directions:

CE Current Focus



Commercially viable today, allows CE to develop feedstock supply chain, able to create saleable products

CE Technology Development



Technology and R&D required, not commercially viable today, creates building blocks for higher value and more sustainable solutions