

RFO Meeting

3/29/21

Dynamic Energy Group presentation

In attendance:

DEG:

Jay Lankford  
Terry Planton  
John O'Rourch  
Angelo Piro  
Bob McCarthy

Dynamic Energy Group has created a process to convert biomass to a biofuel able to be used in Central Heating Plants. This process utilizes scrap resources from various industries, including material from companies like Dekka.

Their thermal decomposition process is non-catalytic (not a Fischer-Tropsch process), utilizing modular gasifiers that can process 10 metric tons/day and is electric heated. Their target feedstock is cellulosic, producing an ultra-low sulfur (<10ppm target) fuel with the same heating content as #2 fuel oil. Reaching upwards of 1000°F, their process creates a stable, more pure product that reaches an acidity of 3.5 (?), which does not require a stainless steel retrofit. The final product produces both diesel and biochar, which can be marketed to agricultural customers.

Given the big demand for renewable fuel, DEG sees significant potential for their biofuel.

Their plant requires 10 months to build and has access to rail for to provide for greater logistical opportunities. There are virtually no emissions from processing.

Yearly, their plants:

- Divert 176,000 tons from landfills
- Produce 14 million gallons of biodiesel
- Produce 23,000 tons of biochar
- Remove 35,000 tons of CO<sub>2</sub>
- Earn \$24M in RIN credits

Other considerations:

Scope 3 emissions

Electricity

- Purchasing from Limerick
- 9-10 MW

Potential for thermal RECs

Price indexing?