

RFO Meeting

3/15/21

Ensyn Presentation

In attendance:

Greg Gosselin – Ensyn

John Costlow – SEF

Brian Hillard – SEF

Greg Welker – DCED

Monty Alger, Penn State University

Adain Walter, Penn State University

Michael Decman

Greg Gosselin:

Cannot mix biodiesel with petroleum. The conversion to RFO can make use of existing boilers, but requires a new burner in addition to other components.

Ensyn's RFO has 75kBtu/gal

- Fluctuates between 71kBtu and 81kBtu, depending on feedstock
- #2 fuel oil has 140kBtu / gal
- RFO is heavier than #2 fuel oil

Burning RFO also creates particulates. Tanks for RFO are insulated, not heated

Processing RFO results in:

- 70% fuel
- 15% natural gas
- 10% char
- Natural gas and char used in processing

Renewable fuel standard was created to support domestic fuel production, which led to Renewable Identification Number (RIN). RINs stay w/ renewable fuel oil until it is burned (contrary to electric RECs).