Renewable Fuel Oil (RFO)

What is Renewable Fuel Oil (RFO)?
Renewable Fuel Oil (RFO) is a pyrolysis oil derived from wood or wood-based feedstock. Ensyn is currently the only commercial producer.

RFO Characteristics:

- RFO possesses a 25% water content and a PH of 2.5.
- RFO can contain solids, like ash.
- High water content makes flame stability a challenge to achieve.

Benefits of RFO:

- RFO is 100% renewable and carries the highest RIN rating (7).
- RFO is not subject to traditional energy market volatility.
- RFO is superior to heavy oil in terms of lower sulphur content, thus lower SOx emissions.

How do I burn it?

There are several challenges to consider when burning RFO:

1) With a PH of 2.5, the fuel has a similar corrosion property to that of lemon juice and requires that the wetted components be made of stainless steel or brass construction.

2) The ash content can be troublesome for plugging strainers or nozzle passages and can lead to particulate emissions.

Preferred Utilities developed a state-of-the-art combustion system to successfully burn RFO.