

RTP® – Scale-up & Commercial Deployment

ENSYN - 40+ years in business

RTP®

- ✓ Ensyn's core technology a platform for multiple products
- ✓ Converts solid biomass to high yields of liquid biomass
- ✓ Fast thermal conversion no pressure, H₂, or catalyst
- ✓ Scalable to at least 20M gpy (80M l/y) economy of scale

RTP Production

- ✓ Continuous commercial production since 1989
- √ 10 commercial RTP facilities commissioned
- √ 8 currently operating, 2 decommissioned after 20 yr & replaced
- ✓ Oldest of current RTP units operating since 1996
- ✓ Additional 6 RTP demonstration and pilot units for testing



Renfrew, Ontario, 3M gpy commissioned 2006







Cote Nord, Quebec, 10M gpy commissioned 2018



Products

- ✓ Initial commercial products
 - Food additives & chemicals
 - Process heat
- ✓ Initial energy product:
 - Heating fuels
 - Anchor product for initial projects
 - capacity expansion to seed growth products
- ✓ Growth products a platform technology
 - Renewable Gasoline & Diesel
 - Green Methanol & Ethanol
 - Green Hydrogen
 - Green Marine fuels
 - SAF
 - Carbon sequestration (CDR Credits)

Ensyn's FPBO

(fast pyrolysis biooil)



Commercial Operations

Renewable Heating Fuels



Heating & Cooling Fuels

In Development

Gasification, Co-processing and Carbon Sequestration





- Renewable Gasoline & Diese
- Green Methanol & Ethanol
- Green Hydrogen
- Green Marine fuels
- SAF
- CDR Credits



Production Development = Capacity Expansion

- ✓ Immediate projects under active development in:
 - Maine (20M gpy) and
 - Nova Scotia (10M gpy)
- ✓ Near-term project expansion in MN, WA and WI
- ✓ Initial projects anchored on heating fuels
- ✓ Additional production expansion in Canada and US to leverage production of FPBO for growth products
- ✓ Important new alliance with Castlerock Green Energy and Nexus Development Capital for US development
 - Alliance operating through JV: Castlerock Biofuels LLC
 - Agreements to fund the Maine project to FID
 - John Murphy, Managing Director of Castlerock Biofuels to address tcbiomass tomorrow



★ Immediate projects under active development

