Our Business

- We produce a renewable liquid fuel from wood and other non-food biomass
- Our key product is Renewable Fuel Oil™ (RFO™)
- RFO is a flexible petroleum-replacement with multiple uses including heating and for production of drop-in transportation fuels
Commercial Status

- Commercial production for over 20 years
- Over 35 million gallons produced to date
- Five commercial facilities in operation in US and Canada
- Equipment provided to projects by industry leader with performance guarantees
Technology

- Technology is RTP™, Rapid Thermal Processing™
- Fast thermal conversion
- Simplified, scaled-down version of fluid catalytic cracker (FCC)
- Does not require catalysts, high pressure or hydrogen
- Technology partner is UOP, a Honeywell company
Business Plan

- Build-own-operate model - with strategic partners
- Capacity expansion underway in North America and internationally
- Initial focus:
  - Canada
  - USA
  - Brazil
  - Finland
  - Malaysia
RTP™ History

1984: Foundation

1989-1998
Commercialization & Scale-up US - $20+M sale for Chemicals

1998-2005
Petroleum Business Development & sale for US$100 MM

2006-Present
Renewable Liquid Fuels: Key alliances & Project execution

Since 1996, Ensyn has returned to shareholders over 2x the amount it has raised in equity funding
Ensyn’s Commercial RFO Plant
Renfrew, Ontario
Powerful Strategic Relationships

Strategic Relationships

Shareholders

- UOP, A Honeywell Company
- Envergent
- Chevron Technolav Ventures
- Fibria
- FPI
- Ivanhoe Energy
- RENOVACAPITAL
- REDARROW

- Credit Suisse
- IMPAX

FELDA PALM INDUSTRIES

ENSYN
UOP, a Honeywell Company

UOP
- Engineering & Supply of RTP Equipment
- Performance guarantees
- Upgrading to transport fuels
- Global reach

Ensyn:
- RTP technology
- Project development
- Know-how
From Cellulosic Biomass to a Barrel of Oil

Modular facilities producing 5-20 million gallons year of RFO  
Capex of $20-100 MM

- Heating Oil  
  RFS2 Approval in Process
- Refinery Feedstock  
  RFS2 Approved
- Diesel Power Generation
- Stand-alone Upgrading - Transportation Fuels  
  RFS2 Approved
RFO Heating Oil

- 20+ years of combustion experience – over 15 million gallons combusted
- Multiple commercial RFO demonstrations in different boilers – Ensyn & partners
- RFO can be co-fired or used alone in conventional commercial and industrial boilers
- RFO combustion emissions compare favorably with fossil fuel
RFO in Refineries: Drop-In Transportation Fuel

Utilizes existing refinery capital equipment and infrastructure

Fully fungible hydrocarbon
RFO Roll-out – Scale & Cost

- RFO production facilities of 5-20 million gallons per year
- Capex of $20 -100 million each
- Biomass consumption of 100 - 400 dry metric tonnes per day
Brazil - Strategic Alliance with Fibria

- Fibria Celulose S.A., (NYSE: FBR) is the world’s largest market pulp producer
- Ensyn and Fibria in 50/50 joint venture for the roll-out of RFO capacity in Brazil
- Fibria invested $20 million for 6% of Ensyn in late 2012, sits on Ensyn Board
Summary: Ensyn Renewable Liquid Fuels

What we do
- Produce a liquid petroleum replacement from cellulosic non-food biomass

Economics
- Powerful unit economics – cash cost of ~ $50 BOE & capital-light

Technology
- Commercially proven RTP technology - over 35M gallons produced - UOP/Honeywell performance guarantee

Markets
- Global petroleum markets – leverages existing refinery infrastructure

Strategic Relationships
- Strong Strategic Relationships – UOP Honeywell (Envergent), Chevron, Fibria, Felda, Renova & others

Roll-out
- Significant capacity expansion in progress