

Presentation to

**The Commonwealth of Virginia
Joint Commission on Technology &
Science**



January 11, 2011

Meeting Agenda

1	Introduction to ReEnergy and Riverstone
2	ReEnergy's Renewable Energy Initiatives in Virginia <ul style="list-style-type: none">• Key attributes• Envergent and the RTP technology• Initial opportunities
3	Discussion of State Policy Support & Programs <ul style="list-style-type: none">• Renewable energy programs/financial incentives• State facility energy customers• Expedited permitting processes
4	Summary



ReEnergy Holdings LLC

- Formed in 2008 by Riverstone Holdings and management team
- Biomass/waste fuel renewable energy company growing through acquisitions and targeted project development



- Owner and operator of fuel processing and renewable energy generation facilities
- 20+ years of experience in renewable energy and waste fuel industries
- SPSA privatization initiative

- Private equity firm founded in 2000 dedicated to the energy industry
- \$17 billion under management
- Riverstone/Carlyle Renewable & Alternative Energy Funds - world's largest renewable energy fund



REENERGY'S RENEWABLE ENERGY INITIATIVES IN VIRGINIA

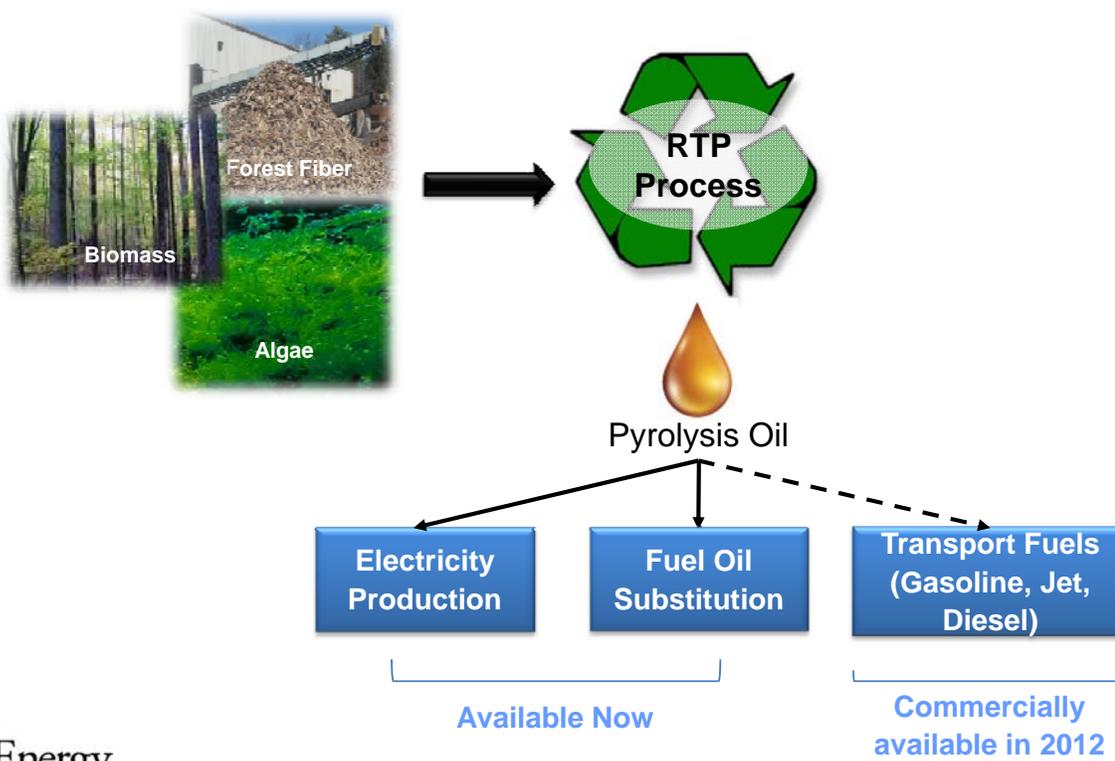


Key Attributes

- Expands the renewable energy platform for the Commonwealth of Virginia
- Significant capital investment
 - ~\$80 million construction cost/project
- Integrates with and supports local industry
 - Recycling, timber, and energy-intensive industries
- Job creation during both construction and operating periods



Pyrolysis Oil to Energy & Fuels



Envergent Technologies LLC

- Formed in 2008
- Provides pyrolysis oil technology for fuel oil substitution and electricity generation
- Development of technology for upgrading pyrolysis oil to transportation fuels



- Leading process technology licensor with ~\$2 billion in sales, 3000 employees
- Nearly 100 years of refining technology development, scale-up and design
- Modular process unit supplier
- Global reach via Honeywell & UOP sales channels

- Developers of innovative RTP™ fast pyrolysis process
- Over twenty years of fast pyrolysis commercial operating experience
- Seven commercial RTP units designed and operated

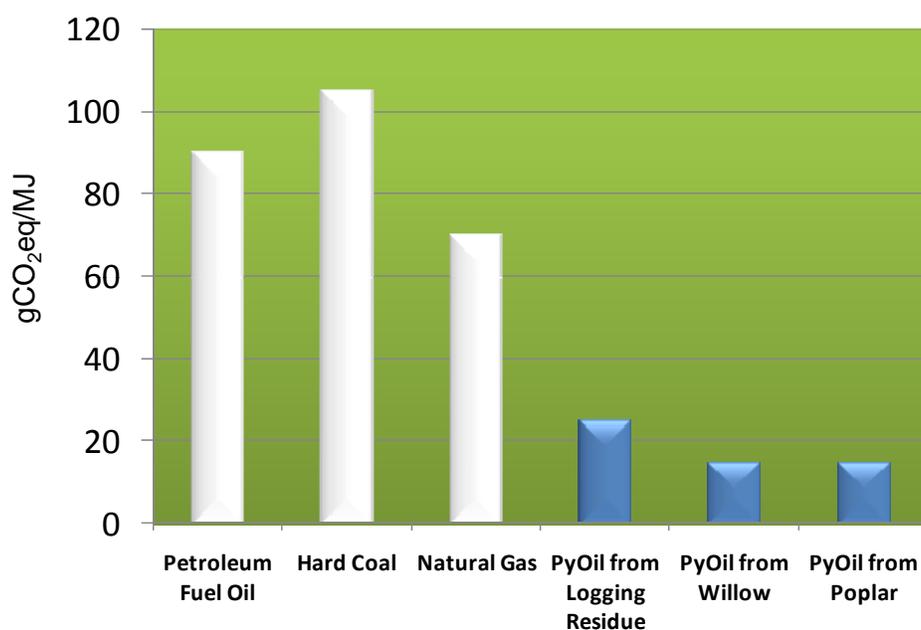


RTP™ System

- Commercially proven technology – 7 units in operation
- Reliable operation with 90+% on-line availability
- Designed to maximize pyrolysis oil yield, 70-75 wt% based on hardwood
- Performance guaranteed by UOP/Honeywell
- Engineering and modular delivery by world-renowned industry leader
- Significant greenhouse gas (GHG) emission reduction



Life Cycle GHG Emissions Through Combustion



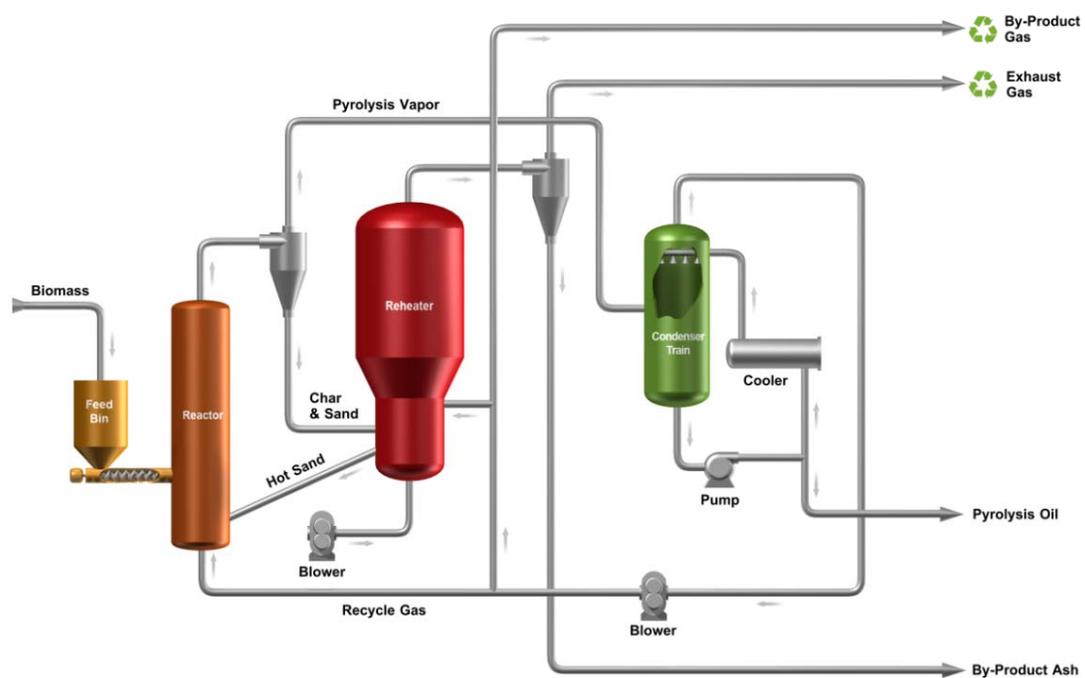
Source: <http://www.envergentech.com>, June 2010

Reference Facility

- In operation since 2007
- Renfrew (Ottawa) Canada
- Largest installation to date (200 green TPD/100 dry TPD)

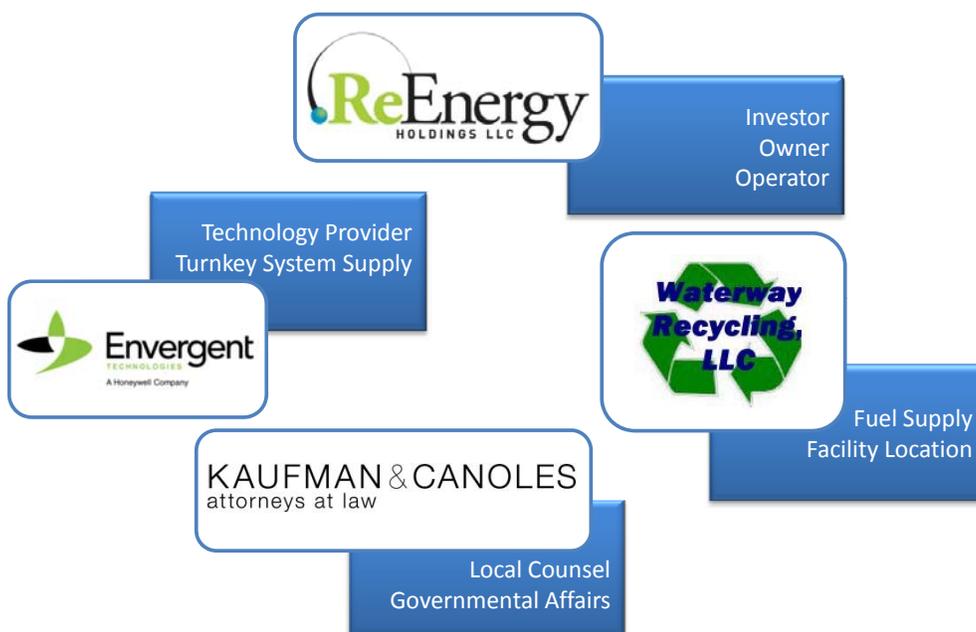


RTP™ Flow Diagram



INITIAL OPPORTUNITIES

Project Team Members



Virginia Team Members

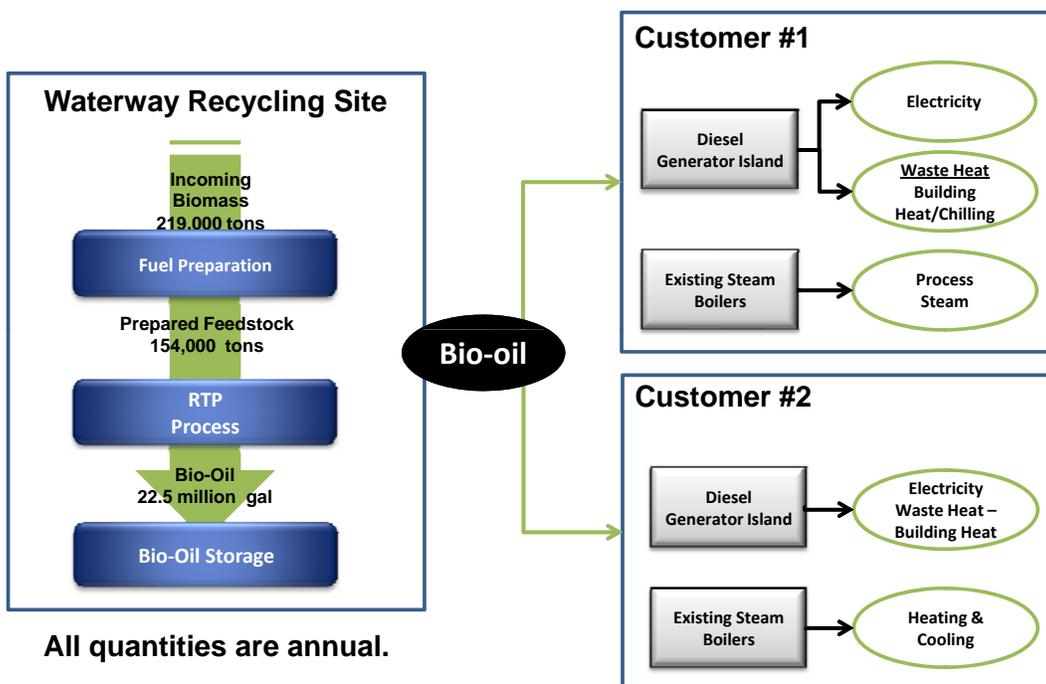


KAUFMAN & CANOLES
attorneys at law

- Local ownership
- State-of-the-art C&D processing system
- Provides reliable, high quality and large volumes of recovered waste wood
- Excellent location to permit, construct and operate an RTP Bio-oil Facility
- Significant regional presence
- Proven-track record in public-private projects
- Recent experience with ReEnergy and Waterway Recycling
- Engaged in renewable energy initiatives



Project Schematic Diagram



Feedstock Supply Options

Category	Primary source
Recovered Wood	Waterway's C&D processing operations in City of Chesapeake
Green Biomass	Regional VA timber operations
Creosoted Wood	Reconstruction of wharfs/docks in Hampton Roads region
Hurricane/Storm Debris	Wood debris (trees, limbs, demolition wood) from storms
Agricultural Wastes	Regional crop and processing waste/residues

DISCUSSION OF STATE POLICY SUPPORT & PROGRAMS

Opportunities for Public Policy Support

Policy Area	Commentary
Renewable Energy Policy	<ul style="list-style-type: none">• State renewable portfolio standard/RECs• Grants• Tax incentives
State Facilities as Energy Customers	<ul style="list-style-type: none">• Preferential set asides for renewables• Long-term contracts
Expedited Permitting Processes	<ul style="list-style-type: none">• Permit-by-rule program• Fast-track program• “One-stop” expedited permitting program

SUMMARY

Summary

The ReEnergy program offers:

- Source of capital for financing to support construction and long-term operations
- Experienced team
- Innovative, advanced and proven technology
- High thermal efficiency, low emissions profile
- “Inside-the-fence” energy solution – to meet the needs of targeted customers, including the Commonwealth of Virginia and the U.S. Navy
- **A real-world solution to Virginia’s objective to build a world-class renewable energy industry sector**



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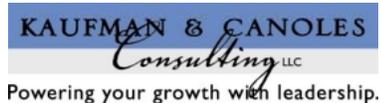
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