



Braven.

Braven. Environmental

Corporate Overview

July 2020

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Section #1

Introduction to Braven Environmental ("Braven")

Section #2

Braven's Recycled Fuel Production Unit

- Braven's Recycled Fuel Production Unit ("RFP Unit") Developed over the course of seven years, with further enhancements in efficiency and production simplification in the last three years
- Both the RFP Unit and process are patent protected in the U.S. and abroad and Braven has a portfolio of individual patents covering individual components and the entire process
- The Unit is modular in its design, and multiple units can be manufactured, installed, tested and in full operation in less than six months
- Its modularity allows Braven to install units at or very close to the waste plastic source and/or offtake partners' facilities (such as refineries), significantly reducing the carbon footprint associated with traditional waste plastic disposal and petroleum derived chemical product logistics
- Capacity to process on average 1½ tons of mixed waste plastics per hour, resulting in a yield of approximately 2.4mm gallons of Braven PyChem per year per RFP Unit
- Our RFP Units are designed to be installed in multiples, allowing significant customization depending on waste plastics to be eradicated in a certain geographical location

Braven Zebulon – North Carolina Case Study

- Braven has fully operational, commercial, full scale facility in Zebulon, NC and available for live or virtual visits
- Braven has completed the assembly of this RFP Unit, having received building permits as well as approvals for the unit itself at the site (the “Special Use Permit”), and is building a strong local labor force
- The waste plastics are being supplied by Sonoco Packaging, a multi-billion dollar public company with facilities through the U.S. and Canada
- Sonoco is providing waste plastics through a 20-year contract that pays Braven a tipping fee to receive Sonoco’s plastic, delivered, to Braven’s facility
- Output is being purchased by a regional fuel distributor, Colonial Fuels, and Braven is currently in negotiations with major petrochemical companies to purchase a portion or all of the output as an alternative



Braven Zebulon – Pre-Processing

Braven's technology is robust enough to receive mixed waste plastics that do not need to be cleaned or treated in any way.



Braven Zebulon – RFP Unit



- Braven's RFP Unit measures approximately 45 feet by 14 feet
- Modular and is designed to be easily serviced
- Easily installed in existing warehouse buildings

Braven Zebulon – Braven PyChem

- Braven PyChem can be used as a raw material that is used to make plastics, or can be delivered in gaseous or liquid form as a substitute for traditional fuels
- The condensing sections are compact and the unit has incorporated a distillation tower to further fractionate the outputs



Section #3

Next Steps

Braven Cumberland, Virginia

- 6 Unit Facility
- County owned property lease signed
- Currently in Phase 2 engineering
- Expected groundbreaking Fall 2020
- Expected installation of RFP Units in Q1 2021
- Expected commissioning Q2 2021
- Projected PyChem output per year – 14.4mm gallons/year



Section #4

Braven's Markets

Section #5

Braven's Values and Competitive Advantages

Braven was designed from the outset to be a triple bottom line company:

- Environmental Sustainability – Braven's technology redirects waste plastics away from landfills, rivers and oceans to an environmentally friendly process that creates the opportunity to reuse its output to make new plastics, and produces fuels or electricity, all with minimal emissions
- Economic Sustainability – Braven's economic model stands on its own – independent of government or private subsidies, grants, support or good will, and as a result offers local communities sustainable, secure job opportunities. Furthermore, by reducing waste plastic management costs for municipalities and corporations, it allows for the redirecting of capital to other community enhancing projects
- Social Sustainability – With every new facility established by Braven, we create job growth, support local initiatives to better care for the communities, and are committed to using a localized work force to fill positions across the spectrum, especially pulling from local schools, colleges and universities. We are further dedicated to create a fair, safe and diverse work environment

Braven's Competitive Advantages

- Commercial – Our first generation RFP Unit was proof of concept and commercialization of our technology with generation 2 improving on efficiency of manufacturing and installation, along with a significant increase in throughput
- Modular Design – Each RFP Unit, with specifications to yield of approximately 2.4mm gallons of Braven PyChem per year per RFP Unit, can be placed in a footprint of approximately 2,500 sq. ft., allowing for flexible installation options
- Low Capital Requirement – Each RFP Unit costs a fraction of the large facilities using similar technologies recently financed and built by competitors
- Low Conversion Cost – Braven's low capital cost and efficient operation allows it to generate a substantial margin per gallon, even at today's fuel prices
- Short Implementation Time – Braven's manufacturing time and installation requirements allow potential purchasers to be operational typically within six months

Additional information available upon request.

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