

Charles Smith - 2012-13 Investment Plan Inquiry

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Subject: 2012-13 Investment Plan Inquiry

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Hello,

My name is Zachary Rodriguez. I am a consultant for New Horizons Strategic Consulting in Chicago, IL. I have been working with a California-based company to help them find federal and state incentives for the financing of a biofuel production machinery/equipment near La Mirada, CA. After looking at the website for Alternative and Renewable Fuel and Vehicle Technology Program, I noticed that the program is working on the 2012-13 Investment Plan. I was wondering if you thought we qualified to be part of the upcoming budget. Here is a brief abstract of our project:

Introduction

The intent of abstract is to provide detailed information concerning the purchasing of a Pyrolysis System Equipment for the purpose of creating synthetic fuel. The equipment will be purchased and used by The Carpet Recyclers, located in La Mirada, CA. This company is part of GF Industries, a publicly traded company.

History of Plastic By-Product

From 1900-1985, more than 180 paper pulp plants were built across the United States, growing into a 130 billion dollar industry. This industrial development was heralded for the number of jobs it created, as well as the revenue it generated. What was not recognized was the significant impact that this industry had on our environment. In the process of recycling the paper, plants and manufacturers were liquefying the plastic residue that coated the paper, and dumping it into many major rivers and the Ocean.

As public awareness grew concerning the hazards of dumping waste into our water supplies, it became increasingly more difficult for the paper pulp industry to dump this plastic. With the implementation of the Clean Water Act in 1987, the EPA began placing regulations on the amount of waste companies could dump into various water supplies. The effect of these regulations caused the industry to stop producing at peak capacity, reducing production by 55% over 25 years.

The paper pulp industry responded by seeking out recycling solutions to separate plastic from production hardware and flow processes. Environmental Systems Technology & Research, Inc. (ESTR), a long-standing and reputable water treatment company, was contacted by the industry to seek a long term solution to plastic by-product problem. ESTR's recommendation was to create advanced recycling, separation units that create pure poly or oil based plastic; thus, increasing the value of the poly by-product. This is done through a process called Thermal Dynamics.

Thermal dynamics is a hybrid of gasification and liquid fractionation, except that the heat pattern is an algorithm to take specific high grade poly and convert it at a high ratio into raw oil. Thermal dynamics provides a heat conversion system that permits carbon molecules to re-arrange into different arrays within the same primary organic material.

Since the process is heat and not catalytic, continuous flow is possible and the flow is at a high production conversion rate. Also, by avoiding the use of chemically invasive catalysts, the process of thermal dynamics produces no emissions and creates little to none, less than 2%, hazardous residue.

The equipment necessary for this recycling process includes a thermal dynamic conversion system capable of converting plastics at least an approximate rate of 6,000 gallons per day, equivalent to approximately 40 tons

per 24-hour day. This system was designed to specifically address the limitations of other technologies and involves the thermal decomposition of organic matter at temperatures sufficient to gasify organic material under a slight vacuum and in the absence of oxygen. As the temperature increases, vapors flow out of the reaction chamber and are further processed into a cleaned producer gas.

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If you have any questions or ideas for how we can get funding, I would really appreciate it. With all of the programs available in California, I just want to be sure I'm not missing something.

Thank you for your time.

Sincerely,

Zachary Rodriguez
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