

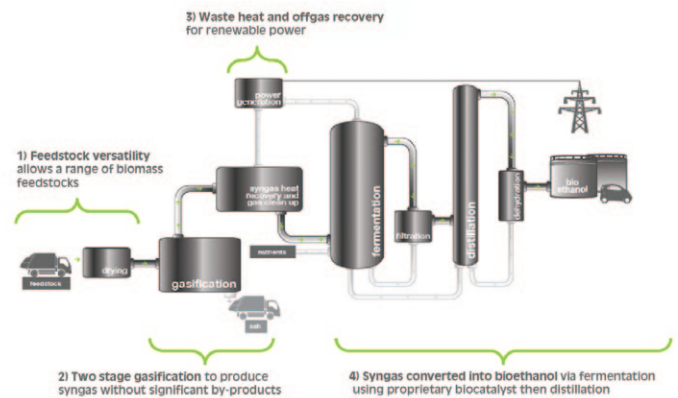
# INEOS New Planet BioEnergy

## Indian River BioEnergy Center

INEOS Bio and its joint venture partner, NPE Florida, are investing millions of dollars to build the BioEnergy Center and bring clean energy jobs to the Treasure Coast region of Florida. The Indian River County BioEnergy Center, near Vero Beach, Florida, will produce eight million gallons of advanced biofuels per year from renewable biomass including yard, wood and vegetative wastes. The facility will also generate clean renewable power for export to the local market. The total project investment will be more than \$130 million and will create an estimated 380 direct and indirect jobs (including 175 construction jobs) over the next two years, and 50 full time jobs once the BioEnergy Center becomes operational.

The INEOS BioEnergy technology efficiently converts a wide range of low-cost organic materials, including household and vegetative wastes, into bioethanol for use as a renewable road transport fuel while generating renewable power for export to the local electricity grid.

This breakthrough technology has been under development for more than 20 years and will substantially reduce greenhouse gas emissions from both cars and energy generation. Not only does it reduce the amount of waste going to landfills, but it also breaks the link between food crops and bioethanol production. The ability to make fuel from agricultural, yard, wood and household waste opens up an exciting new avenue to achieving sustainable energy independence.



The INEOS Bio process consists of four steps to generate clean fuel and renewable power: gasification, fermentation, distillation and power generation.

### **What are advanced biofuels or advanced bioethanol?**

Advanced biofuels are produced by a unique process technology that uses organic wastes rather than food-derived resources to produce ethanol. Additionally, advanced biofuels technology utilizes essentially all of the biomass feedstock resulting in higher yields and greater efficiency.

### **What is feedstock?**

The term feedstock refers to the raw materials that are used to produce liquid transportation fuel and electricity. About 90% of the feedstock for the Indian River BioEnergy Center will come from vegetative waste including tree stumps, limbs, leaves, grass and plant material. We expect the remainder to include a portion of the municipal solid waste stream that currently ends up in the County landfill.

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For more information contact  
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or visit the following websites:

INEOS New Planet BioEnergy  
[www.inpbioenergy.com](http://www.inpbioenergy.com)

INEOS Bio  
[www.ineosbio.com](http://www.ineosbio.com)

NPE Florida  
[www.newplanetenergy.com](http://www.newplanetenergy.com)

### Benefits

- Over \$130 million project investment creating an estimated 380 direct and indirect jobs (including 175 construction jobs) over the next two years, and 50 full time jobs once the BioEnergy Center becomes operational
- Ability to produce clean, renewable fuel and power will be significantly increased and U.S. dependency on fossil fuels will be reduced – eliminating the food vs. fuel debate
- Use of bioethanol as a road transport fuel will reduce greenhouse gas (GHG) emissions by at least 90% compared to gasoline
- A safe, simple, reliable process

### Funding

In December 2009, the U.S. Department of Energy (DOE) selected INEOS New Planet BioEnergy to receive a \$50 million cost matching grant to help lay the foundation for full commercial-scale development of the biorefining industry in the United States. In January 2011, the U.S. Department of Agriculture (USDA) selected INPB to receive a \$75 million Loan Guarantee for the project. Both the DOE and USDA funding programs are part of the ongoing effort to reduce U.S. dependence on foreign oil, spur the creation of the domestic biorefining industry and provide new clean-tech jobs throughout the country. The balance of funding for the project will come from INEOS Bio and NPE.

### About the Joint Venture

INEOS Bio is a BioEnergy company commercializing and licensing the world's leading advanced bioethanol technology process for the production of renewable biofuels and renewable power from a wide range of low-cost carbon materials.

INEOS is the world's fourth largest chemicals group and a leading manufacturer of petrochemicals, specialty chemicals and oil products. As of the end of 2010 it operates 15 businesses and with a production network spanning 61 manufacturing facilities in 13 countries, the group produces more than 40 million tonnes of petrochemicals and 20 million tonnes per annum of crude oil refined products (fuels) each year. INEOS employs 15,000 people globally and more than 3,000 people in the United States. It has annual sales of around \$40 billion.

NPE Florida is engaged in the development and implementation of advanced biofuels and energy projects.

