

FACT SHEET:

MARYLAND'S ANIMAL WASTE TECHNOLOGY FUND GRANT RECIPIENT PROFILE



Renewable Oil International MD, LLC

BACKGROUND

WHAT IS THE ANIMAL WASTE TECHNOLOGY FUND?

The Maryland Department of Agriculture's (MDA) Animal Waste Technology Fund provides grants to companies that demonstrate new technologies on farms and provide alternative strategies for managing animal manure. These technologies generate energy from animal manure, reduce on-farm waste streams, and repurpose manure by creating marketable fertilizer and other products and by-products.

Grant Recipient
Renewable Oil International MD, LLC
Florence, AL

Benefitting Farm
Chesnik Farm, Wicomico County

Grant Amount
\$1.2 million

Issue Date
August 5, 2015

Animal Manure Managed
Poultry litter

PROJECT HIGHLIGHTS

SCOPE OF PROPOSAL

Renewable Oil International MD, LLC (ROI) will use rapid thermal decomposition or fast pyrolysis, also known as biorefinery technology, to reduce the volume of poultry litter generated at the Chesnik's poultry operations by 50 to 63 percent. The patented process involves placing poultry litter in an enclosed container that excludes air. The litter is then rapidly heated under controlled conditions causing it to decompose into various products. The Chesniks operate eight poultry houses on two farms in Wicomico County that generate between 800 and 1,000 tons of poultry litter annually.

Benefits

Several by-products are produced during the thermal decomposition process. These include bio-oil, which can be marketed as an asphalt

extender; bio-char, a charcoal-like product used to enhance compost; and synthesis gas or syngas, a mixture of carbon monoxide, carbon dioxide and hydrogen which can be used as a heat source to dry the poultry litter.

Additional markets are being explored but are not secured. If the demonstration is successful, ROI plans to scale up projects to address manure management issues regionally or for multiple farms on the Lower Eastern Shore where poultry operations dominate the landscape.

For More Information
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“ROI is pleased to partner with a poultry farmer and the Maryland Department of Agriculture to demonstrate the company’s innovative nutrient management technology to process poultry litter into value-added products on the Eastern Shore.”

Phillip Badger
ROI Chief Technology Officer



Maryland Department of Agriculture
Office of Resource Conservation

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