

VERMONT STATE CONSERVATION INNOVATION GRANTS
Quarterly Progress Report

Project Title: Fuel from the Field to the Flue: Grass pellet heating equipment combustion optimization project.
Grantee Name: Meach Cove Real Estate Trust
Project Director: Christopher W. Davis
Progress report author (if different than Director):
Period Covered by Report: 4/1/2013 to 6/30/2013
This Report Date: 7/30/13 Project End Date: 6/30/14

Work performed during this period:

1. The Project Director met numerous times with Adam Dantzcher and John Bootle of Renewable Energy Resources (RER), LLC over the past months and the result is a collaboration between RER, LLC and Meach Cove Farms to work on different but interrelated aspects of grass combustion. Meach Cove Farms would install a grass combustion capable boiler for evaluation under the CI grant program, and RER would produce grass “briquettes” on-site that would be burned in the Meach Cove Farms boiler. This collaboration will provide the only operational grass biomass production and combustion demonstration project in Vermont, and perhaps New England.

Here is how this would work:

Meach Cove Farms has leased space to RER, LLC in one of the buildings on this property to set up their grass processing and densification equipment and produce 2.0” diameter grass “briquettes”.

RER has been working with Meach Cove Farms to identify several biomass boilers that have the necessary features to burn grass fuel in several different sizes.

The primary candidate for the boiler that Meach Cove Farms would purchase under the CIG program would be a 125 - 200 kW sized boiler produced by the EVOWorld company that is headquartered in St. Pantaleon, Austria. RER is working with EVO World to represent them in the Northeastern US.

<http://www.evo-world.net/wood-chip-systems.html>

The EVOWorld company has formed a partnership with the Troy Boiler Works, in Troy, NY to produce their 25 – 300 kW sized boilers in Troy. Meach Cove Farms would receive support and parts as needed from the team at Troy Boiler Works and RER, LLC.

Meach Cove Farms would purchase and install the EVOWorld boiler in their building to produce space heat for the building. This same building is where RER will be producing grass “briquettes”. This co-location within the same building will allow Meach Cove to easily obtain a supply of grass fuel in the larger (2.0” diam.) sized “briquettes” and to evaluate their combustion in the EVOWorld boiler.

Meach Cove Farms would also fuel and evaluate this EVOWorld boiler with the smaller 1/8” diameter pellets that have been produced from the hay on the Meach Cove Farms property under Meach Cove’s CI grant.

2. Information on the EVOWorld boiler and the features that make it well suited to burning grass is contained in the attached appendix.
3. Schedule of next steps:

The project Director met representatives of RER and EVO at the Troy Boiler Works, in Troy, NY on July 9. The EvoWorld and Troy Boiler Works representative, Louis Okonski, is scheduled to visit the building at Meach Cove Farms in early August to review the details of the proposed installation.

It is anticipated that Meach Cove Farms will order and take delivery of an EVOWorld biomass boiler in October, 2013.

It is anticipated that Meach Cove Farms will have the boiler installed and providing space heat in early November, 2013. Grass fuel combustion following the evaluation parameters and procedures used by Michael Newton at the SUNY Canton, NY School of Engineering biomass boiler grass combustion testing program would begin as soon as the EVOWorld boiler is operating as designed on wood pellets.

Reporting and optimization of grass fuel in the EVOWorld boiler would continue through at least June, 2014 as described in Meach Cove CI grant narrative.

EQIP and CIG provisions:

1. The primary EQIP-eligible producer for this project is:

Meach Cove Real Estate Trust
P.O. Box 309
Shelburne, VT 05482

2. There are no (\$00.00) direct or indirect payments for structural, vegetative or management practices under this project.
3. The Project Director, Christopher W. Davis, certifies that there will not be any direct or indirect payments made to an individual or entity for any structural, vegetative or

management practices through this grant. The AIG and HEL/WC provisions do not apply to this project.

End of Document.