APPENDIX A Biomass Combustion Systems Grant Application

Section 1: Applicant Information

Company/organization: School Distr				
Address (must be a street address: can	not be a P.O. Bo	ox):		•
School District of Marathon	_			
204 East Street	,		•	
Marathon, WI 54448	_			
County: Marathon County	-			
Company's federal ID number (EIN or	SSN): 39-600	03266		
Business Type (circle one):	, <u></u>			
Individual/Sole Proprietor	Corporation	Partnership	Government	School
Church	Other:	· ·		<u> </u>
Business Classification (circle one):				
For Profit	Non Profit		•	-
Name of primary contact: Richard P		Administrator		
Contact's phone number: (715) 443-2	226 ext. 107		•	
Contact's fax number: (715) 443-261	1			
Contact's e-mail address: rparks@ma		IS		
Address where system will be installed			ot be a P.O. Box):	
(if different from mailing address)		•		•
Marathon Area Elementary School	o]	-	•	
100 Spring Valley Drive				
Marathon, WI 54448	•			
County where system will be installed (if different fron	n mailing addre	ss):	
Electric utility at the installation address	: Wisconsin	Public Service	-	
Natural gas utility at the installation add				

Section 2: Contractor Information

Stored 2. Community manage
Company/organization that designed and engineered the combustion system:
Marth Wood Shaving Supply, Inc.
6752 State Hwy 107 North
Marathon, WI 54448
Mailing address:
Marth Wood Shaving Supply, Inc.
6752 State Hwy 107 North
Marathon, WI 54448
Phone number:(715) 842-9200 ext. 237
Fax number: (715) 443-3858
R-mail address: ti@marthywood.com

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Name of installation contractor: Renewable Energy Systems, LLC

Mailing address: Renewable Energy Systems, LLC

7633 East County Road L Solon Springs, WI 54873

Phone number: (715) 375-2751
Fax number: not avialable

E-mail address: <u>mpollock@centurytel.net</u>

List two or three similar projects undertaken and successfully completed by the company or organization that designed and engineered the combustion system and the installation contractor (if different). Provide the name and phone number of a contact person for each project. Focus on Energy reserves the right to contact these individuals:

Rivers Edge, Office Building Ken Maki, (715) 634-8955

Economart, Grocery Store Ted Schmitz, (715) 635-2839

Baldwin Dairy, Anaerobic Digester (715) 635-2836

Name of installation subcontractor (if any):		
Phone number:		
Fax number:	 	<u>.</u>
E-mail address:		
,		
Name of installation subcontractor (if any):		
Phone number:	 	· · · · · · · · · · · · · · · · · · ·
Fax number:	-	
E-mail address:		

→ Attach resume summaries for all contractors that will design, engineer and install the project.

Section 3: Project Description

Type and description of combustion system (attach additional sheets as needed):

Our goal is to install a pellet boiler so that we can create a dual heating system for our

Elementary school. Being an entity which annually relies on our local taxpayers for funding our operations, it is important for our public educational facility to be attentive to areas in which we can save on expenditures. We believe there will be benefits for our district and taxpayers by the installation of a Pelco 1520 unit. Based on the location of the boiler room at

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our Elementary facility, there will be limited labor/construction cost which also makes this project appealing. Our current boilers are now twenty-two (22) years old. The cost of replacing these boilers, should something happen, is quite expensive. Our anticipation is that the installation of the pellet boiler will reduce the wear on our current natural gas boilers thus extending their life too. Based on limited funds available for such a project, we are need of the financial assistance that would be gained by the award of a Focus on Energy Grant.

- → Please attach a copy of the following additional information to the application:
 - Feasibility study for the proposed project (for projects producing over 200,000 therms/year)
 - Process flow diagram
 - Site plan
 - Manufacturers equipment descriptions
 - System warranty information
 - Proposed project construction timeline schedule
 - Letters from vendors demonstrating availability of biomass supply

Estimated date of hiring an installation contractor: November 1, 2008

List permit applications that may be required, or have been submitted, and provide permit status:

The Village of Marathon has an ordinance prohibiting the use of solid-fuel fired outdoor heating devices within the village. I am currently on the agenda for their next meeting.

October 9, 2008, to ask that the village board consider a waiver for the school district for this pellet boiler system. (Informal discussions have seemed positive for this request.)

Status of power purchase agreement (electrical systems only):

Not Applicable.

Planned installation completion date:

December 30, 2008

Describe how you will operate and maintain the combustion system when completed (O&M plan):

Our staff will operate the unit in accordance with the parameters found in the operations

manual. A copy of the operation manual is included as an attachment with this email.

Additionally, the installer will provide initial training for our staff.

Describe how you will you will be tracking the economics of the project when it is operating (e.g., separate account management for combustion system related income and expenses, combined accounting with other business income and expenses)?

Our school usage for heating systems is seasonal. Since we are only looking to install a unit at our Elementary school, we will be able to utilize a cost comparison looking at the annual fuel cost for the wood pellets and the monthly natural gas rates on the bills from our High School facility. We have also been asked to be included in a cost savings analysis by Mr. Don Keck upon competion of our project.



Section 4: Project Costs

Provide a cost breakdown listing of the biomass combustion system. Break out all major equipment (e.g., biomass storage, automated fuel feed system, combustion system, combustion system controls, heat exchanger system, ash removal system, etc.).

NOTE: Buildings, legal fees and roadwork are not considered part of the combustion system.

Itemized list of combustion system components and costs (use additional sheets if necessary):

BOILER Pelco 1520, pellet burner, 9 foot feed auger, 4 foot ash auger, long neck cyclone and chimney tee with freight \$42,495

BIN Schuld/Bushnell White Epoxy 12x10 bin with ladder, ground lid opening, slide gate, bottom manway, transition and freight....... \$11,074

SYSTEM INTEGRATION Renewable Energy Systems will coordinate placement of boiler, bin, connect augers, supply/return waterlines vinyl coated where needed, core drilling, heat exchanger, setting the plate, installing outdoor reset control with 3-way mixing valve as desired by CESA complete with all antifreeze....\$40,662

ELECTRICAL Seliger Electric to primary wire the Pelco Boiler, primary pumps with starter, reset controller and donfoss motorized valve.....\$2,460

CONCRETE Ellenbecker to construct 20x15 slab or pylons to properly support bin and boiler while also allowing for appropriate drainage...\$5,900

FENCING Security Fence to install 70 foot of 8 foot high chain link fence with 1 opening double swing 8 foot door prior to frost......\$2,950

WARRANTY, an extra year for 2-year coverage for installation only......\$2,500

Total estimated cost of system: ___\$108,041

Project Revenue Sources:

Estimated annual fuel savings for utilization of heat (dollars/year): \$3,883.00

Estimated annual revenue from electricity sales or savings (dollars/year): Not Applicable

Estimated annual operation and maintenance cost (dollars/year): \$\square\$ \$250.00 per year

Simple payback period (years): <u>10+ years with a 25% grant.</u>
(total estimated cost of the project) divided by (the estimated annual fuel savings + other revenue minus annual recurring costs such as additional estimated operation and maintenance costs)

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Show simple payback period calculation:

This information was taken by adding the annual savings projected in the Pre-Feasibility Assessment Results information that has been included with this application. (Please refer to the pre-feasibility life cycle cost model.)

→ Attach an installation/equipment estimate or bid from a manufacturer or installation contractor.

Section 5: Financial Need

Describe why you need Focus on Energy funding for this project. Provide details of why your proposed project cannot proceed with the financial resources available to you.

Our district has been researching the possibility of implementing the addition of this renewable energy source for heating at our Elementary facility since last spring. As a public entity the full cost of the project will prohibit the district from being able to proceed because the payback for installation will exceed the desired commercial payback of less than ten years. Even with all costs going up, the assistance of this program will allow us to bring the installation payback within this ten year window. Additionally, other expected indirect paybacks for the district include increasing the longevity of our current boilers, saving heating costs by utilizing the heat exchange system allowing for moderate temperatures to be utilized (not just current boiler limits) during fall and spring, and most importantly allowing the district to have the benefit of a dual system to take advantage of the most cost efficient fuel source on a monthly/annual basis.

→ <u>Financial Information (include A or B below)</u>:

A. If this project requires financing in the form of a loan, please attach a letter from your lender that they will provide financing for this project.

Estimated date to obtain financing: _Not Applicable

Source of financing: Not applicable

B. If this project does not require a loan, please attach a letter from your financial institution (bank, credit union, etc.) that indicates sufficient funds are available to complete this project.

Letter is being sent via U.S. mail.

Have you applied for or been awarded other grants for this project (government, utility, etc.)? If yes, please identify the grant, source of grant, the grant award amount and anticipated award schedule:

No, this is the only grant of which I am aware for our project.

