

**Conrad Grebel
University College**

Solar Grebel

Solar Panel Funding
Proposal

March 9, 2011



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Dear Nikki Best,

As students at the University of Waterloo and residents of Conrad Grebel University College, we have taken our school's commitment to building a better future for Canada and the world to heart. We know that the responsibility for environmental justice lies with each and every one of us, and this awareness has motivated us to work tirelessly to bring green technology to life in our community.

In Fall of 2008, a group of dedicated students embarked on a mission to introduce solar energy in their home, Conrad Grebel University College. Out of their efforts was born Solar Grebel, a student-led initiative that over the past two and a half years has researched solar technologies and raised funds to install solar panels on the college's roof. In December, Solar Grebel's work came to fruition with the successful installation of three solar thermal panels that provide hot water to the college.

This is not the end of the road for Solar Grebel, however. Our vision is to see solar thermal technology implemented to its full potential, not just at Conrad Grebel, but in our community at large. Not only is there capacity for more panels at Conrad Grebel, but it is our hope that with the success of our initiative other institutions in the Waterloo area will be encouraged to follow suit.

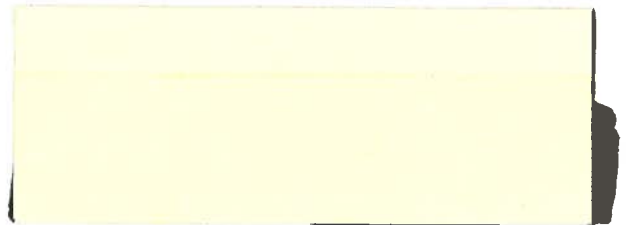
We would like to invite you to take part in a global trend for environmental change. Solar Grebel is an example of a *working* solution, fulfilling our energy needs for today as well as opening the door for a better tomorrow. As our world continues to irresponsibly consume, what better way to uphold the core values of The University of Waterloo than by supporting sustainable energy?

Support for solar thermal technology is growing around the world, and we hope that the success of Solar Grebel will start a ripple of change throughout our community. We look forward to your support.

Sincerely,



Solar Grebel



Solar Grebel

Solar Grebel
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Waterloo, ON
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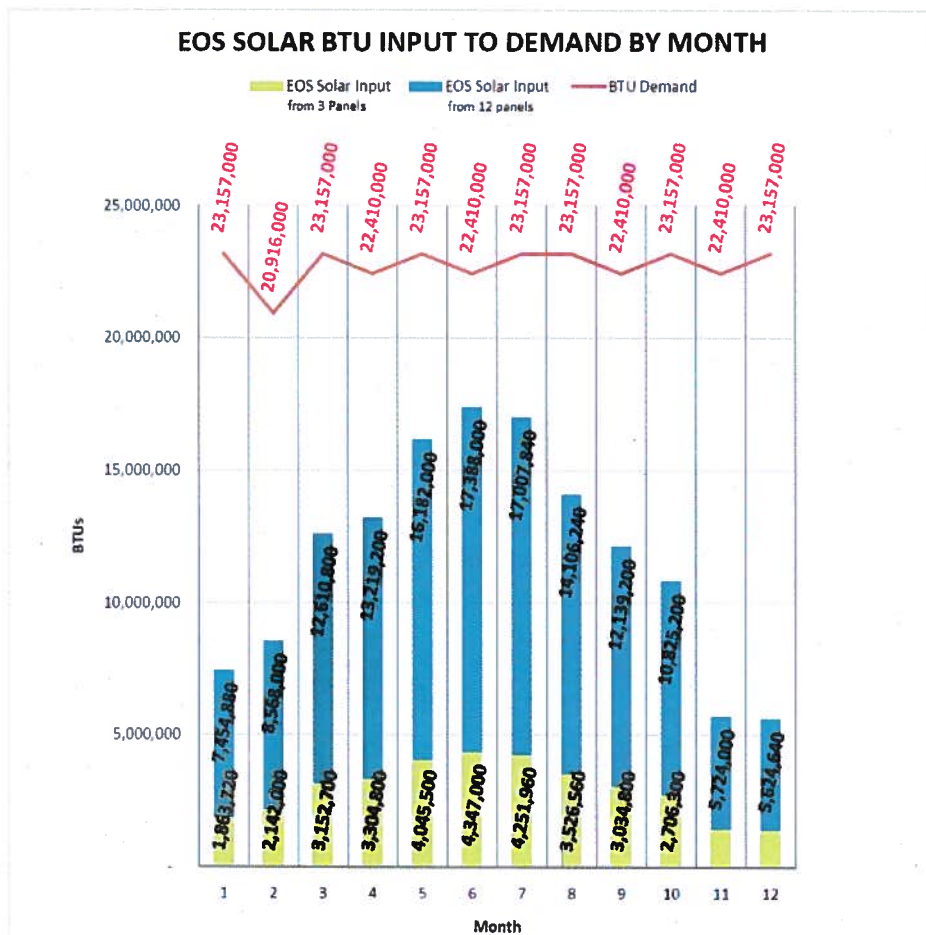
1.0 Project Description and Timeline

In the Fall of 2008, a group of seven students agreed upon a goal to install a solar energy system at Conrad Grebel University College (CGUC), a residence of the University of Waterloo. The system was to be the first of its kind at a University of Waterloo residence. The students involved were excited to show initiative, educate themselves, research possible alternatives, and take command of the project with the guidance of CGUC's administration. 'Solar Grebel' was born.

Since that time, a steady stream of students have made contributions to the project; raising funds, writing a Request For Proposals, contacting system suppliers, and arranging a final contract. In August 2010, a system supplier was selected. In December 2010, three panels and two water tanks were installed, at a cost of \$48,072.

Several items are currently on the agenda:

- Education and student involvement will continue to be a priority. Current residents of CGUC will have opportunities to learn about solar thermal technologies and make contributions to the project.
- Raising the last of the funds needed for the first stage of the project.



- The second stage of the project: expanding the system to its maximum capacity. The current infrastructure can accommodate 9-12 panels. Every added panel will increase the return on investment on the system, as shown by the chart on the left comparing 3 and 12 panels.

2.0 Financial Report and Itemized Budget

2.1 Expenses

	Amount (\$)
System & Installation	43,260
Engineer Consultation	1,000
HST	3,540
Original Estimate:	47,800
Actual Final Expense:	48,072

2.2 Revenue

	Amount (\$)	
Donations	35,018	
Pledges	750	
Conrad Grebel Student Council	1,500	
Conrad Grebel Administration – Capital Budget	5,000	
Government Grants	4,140	
Total:	46,408	Short: \$1,664

2.3 Itemized Budget for New Panel

1– EOS Twin Glass Evacuated 30 Tube Solar Thermal Collector	
Piping c/w Balancing Valves	
Premixed Propylene Glycol	
Unistruct Frame	
Ballast Weights (180 lbs./panel)	
Installation	
Approx. Total:	\$5215.00

3.0 Request for Funding

We, the Solar Grebel Team, feel privileged to be the first group to bring solar technology to the University of Waterloo campus. We hope that the benefits from this green initiative will be seen by others and spread across campus and the region. These solar panels cut down gas costs, gas emissions, and help encourage other green initiatives. Our group is very excited about this project and after working on it for two years, the first stage of the project is complete. Three solar panels have been installed, along with the necessary infrastructure.

However, as a student run initiative, we have no formal funding. Over the past two years, we have fundraised 97% of the funds needed for the first stage of the project. We are asking your institution help to fund this project. The remaining debt will be paid off first, and following that, additional panels can be sponsored for \$5,215. This is only a target, however, as any help your institution can provide will be much appreciated.

Your generous donation will be acknowledged in publications such as the Waterloo Chronicle, Imprint, Grebel Now, the UW Daily Bulletin, and any future press releases put out by Solar Grebel. We are also planning to put up a plaque in the Conrad Grebel atrium thanking each major supporter of the project.

A partnership with your institution will be mutually beneficial: it would increase public knowledge of your environmental efforts, as well as decrease our residence's ecological footprint. We look forward to your support.

FEDERATION OF STUDENTS
SPECIAL PROJECTS FUND

Providing all students with an opportunity to amplify and optimize their interests

APPLICATION FOR FUNDING

Date of Application: March 9th 2011

Representative Spokesperson for Project:

Proposed Project: To put 3 solar thermal panels including all the required infrastructure on the roof of the Conrad Grebel Library

Title: Solar Grebel- Solar Thermal Project

Time Frame of Project: Completed- At this point we are in the process of fund-raising in order to pay off the system. A portion of the cost has been loaned to us by Conrad Grebel and the aim is to raise all the needed funds by the end of the term.

Amount of Funding Requested: \$1700, this is approximate amount of debt we have left of the original \$45 000 project. The request exceeds our deficit because our hope it to expand. The roof of the Library is rated to hold up to 12 panels. If this amount is unreasonable any amount granted would be highly appreciated.

State how the project is affiliated with the University of Waterloo.

Society _____

Service This is a service to the University as it brings not only green technology but cuts spending of one of the University's institutions. In addition it brings attention to the University by means of positive publicity; examples of which can be found below or on our proposal.

Club Solar Grebel is a club run out of Conrad Grebel University College. We meet at least weekly, and often bi-weekly to organize our goals for the week and manage tasks.

Individual _____

Other _____

Have you applied for funding from another source? If so, where and has funding been awarded? After the completion of the above information, you must also attach the following documentation to this application:

Yes, we received a 10 000 dollar grant from TD friends of the environment. We also received a 4,140 government rebate for our three solar panels.

These Next four items can also be seen in our proposal for funding which is attached in a Pdf file. We at Solar Grebel feel very grateful that you have taken the time to look at our project.

1. Description of Project and time line

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2. Promotion of Project

We have been acknowledged in publications such as the Waterloo Chronicle, The Canadian Mennonite (magazine), Grebel Now, and the UW Daily Bulletin. In addition we have been in contact with Imprint, and are hoping to be featured in the Waterloo Record. Finally, we are planning to put up a plaque in the Conrad Grebel atrium thanking each supporter of our project of the project.

3. Itemized Budget

Expenses (\$):

- System & Installation 43,260
- Engineer Consultation 1,000
- HST 3,540
- Original Estimate: 47,800
- Actual Final Expense: 48,07

Cash Generated (\$):

- Donations 35,018
- Pledges 750
- Conrad Grebel Student Council 1,500
- Conrad Grebel Administration –
- Capital Budget
- 5,000
- Government Grants 4,140

Total: 46,408

Deficit: \$1,664

Itemized Budget for a New Panel

- 1– EOS Twin Glass Evacuated 30
- Tube Solar Thermal Collector
- Piping c/w Balancing Valves
- Premixed Propylene Glycol
- Unistruct Frame
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Approx. Total: \$5215.00

4. Participants