



STUDENT SUSTAINABILITY COMMITTEE

Funding Award and Acceptance Letter

December 6th, 2021

Project: **Renewable Energy House**

Dear **Roman Y. Makhnenko**

On behalf of the University of Illinois at Urbana-Champaign Student Sustainability Committee (SSC), we would like to thank you for initiating a project that improves the sustainability of our campus. SSC is pleased to inform you that your project will receive **\$2,935.00** in grant funding.

In order to remain eligible for this award, you must agree to the following conditions:

1. The project must be completed within two years. A final report of all work completed should be provided to the SSC Assistant Director by **December 6th, 2023**.
2. Project status updates and detailed account statements must be provided at the end of each semester, in the method requested, until the project is completed.
3. The Contact Person will be individually responsible for all official communication and the execution of this agreement.
4. The awardee will take the appropriate steps to create a CFOP with OBFS UAFR University Accounting Services. The CFOP provided for this award shall strictly be used for the money awarded in this proposal.
5. Any substantial modifications to project scope, budget, or timeline must first be approved by SSC. These requests must be submitted in a formal letter to the Chair and the Assistant Director.
6. All projects will be expected to follow campus policies and procedures as well as any applicable State and Federal laws.
7. SSC reserves the right to revoke funding if the project does not comply with the terms and conditions outlined in this letter.
8. Any press releases or educational/promotional materials involving the project should acknowledge SSC funding.
9. Any signage involving the project or events surrounding this project should include SSC's logo and/or a statement of which fee funded the project. Projects must coordinate with SSC to ensure promotion appropriately highlights the SSC's contributions to the project.

If you agree to the terms and conditions for the funding, please sign on the designated line at the bottom of this letter. If you have any questions regarding these requirements please contact the SSC, at sustainability-committee@illinois.edu. You will be notified when the Institute for Sustainability, Energy, and Environment and Vice Chancellor for Student Affairs officially approves this project. Again, thank you for your interest in improving the sustainability of the University of Illinois at Urbana-Champaign. We look forward to working with you in the future.



STUDENT SUSTAINABILITY COMMITTEE

SSC Signatories

Jack Reicherts

Jack Reicherts, Chair
Student Sustainability Committee

Awardee Signatory

Roman Y. Makhnenko

Roman Y. Makhnenko
Applicant

**Faculty or Staff Project Advisor
(for Student-Led Projects)**

N/A

[First and Last Name]
Faculty/Staff Project Advisor

iSEE Signatory

Madhu Khanna

Dr. Madhu Khanna, Director
Institute for Sustainability, Energy & Environment

Student Affairs Signatory

Dr. Danita M. B. Young

Dr. Danita Brown Young, Vice Chancellor
Division of Student Affairs



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Project Information

Project: Renewable Energy House

Funding Source:

Cleaner Energy Technologies Fee (302571)

Sustainable Campus Environment Fee (303692)

Funding Amount: \$2,935.00

Receiving Campus Unit: Civil & Environmental Engineering (CEE)

Unit Financial Contact: Heidi Thiele

E-mail: hlgreen2@illinois.edu

Project Description:

This project intends to make a 3D printed house (approximately 1'x1.5'x2' in size) that would incorporate different types of renewable energy sources. It will use solar panels and wind turbines connected to voltmeters to show the electric output based on environmental conditions. The house will be fixed on transparent soil and lights will be installed to demonstrate geothermal energy principles. Plant grass around the house will be implemented and biofuel production will be simulated. The renewable energy house will be used at outreach events at UIUC and local schools.

This proposal directly funds:

- Solar panels: \$40.00
- Windmills: \$50.00
- Lighting: \$50.00
- Soil: \$200.00
- 3D printing: \$400.00
- Voltmeters: \$55.00
- Grass and fertilizer: \$35.00
- Wires/clamps: \$20.00
- Undergraduate RA wages: \$2,000.00
- Wires: \$20.00
- Batteries: \$45.00



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- Paint: \$20.00