



Eugene Water & Electric Board

4200 Roosevelt Blvd.
Eugene, OR 97402-6520
541-685-7000
www.eweb.org

2025 EWEB Greenpower Grant Application

Contact Information:

Greenhill Humane Society

NAME OF ORGANIZATION

Cary Lieberman

CONTACT NAME

Executive Director

CONTACT TITLE

88530 Green Hill Rd.

STREET ADDRESS

Eugene, OR 97402

CITY/STATE/ZIP

541-689-1503 ext 113

TELEPHONE

541-689-5261

FAX

director@green-hill.org

E-MAIL

https://www.green-hill.org

WEBSITE

Greenhill Solar Project

PROPOSAL TITLE

\$50,000

GRANT AMOUNT REQUESTED

SIGNATURE

3/24/2025

DATE

Email completed application and proposal to:

Cheryl Froehlich

Cheryl.Froehlich@eweb.org

1. Background:

- Mission of the organization
- The needs your organization addresses
- The population your organization serves
- A brief description of your current programs and operating budget

2. Project Description:

- Statement of the primary purpose of the project and its relationship to EWEB's mission
- The population you plan to serve and how they will benefit from the project
- Strategies you will employ to implement the project

3. Project Evaluation

- Your criteria for a successful project
- The results you hope to achieve by the end of the funding period
- The method by which you will measure effectiveness

4. Budget and Timeline

- A budget for the project for which funds are requested, **including any additional funding which has been secured at the time of application.**
- Timeline of the project

5. Attachments

- Proof of nonprofit status (copy of IRS letter)*
- List of board of directors*
- One-paragraph resumes of key staff working on the project
- Amount and source of any other funding support previously received from EWEB (if applicable)
- Proof of ownership or authority to install equipment at or otherwise modify building, if request for facility construction project

*Optional or not needed for public and academic institutions.

Application deadline: Must be submitted no later than March 26, 2025

Questions? Contact Cheryl Froehlich, Cheryl.froehlich@eweb.org, 547-685-7676



Greenhill Humane Society

Solar Project

Mission

Greenhill Humane Society provides care and shelter for animals, support and resources for people, and education to promote the humane treatment of animals.

Needs addressed by Greenhill Humane Society

Greenhill Humane Society has been caring for animals and supporting people in Lane County since 1944. We operate the only animal shelter within the Eugene/Springfield area. It is estimated that 70% of Lane County households own pets. When those pets become lost, when families with pets have challenges or are in crisis, or when a family is looking to bring home a new pet, we are this community's primary resource. We also shelter and care for abandoned, abused, and neglected animals. Recent years have seen rising challenges in our community that Greenhill has stepped up to meet including increased financial challenges, lack of secure housing, and natural disasters. Greenhill distributes over 70 tons of pet food and supplies annually to individuals, families, and organizations in need throughout Lane County. Greenhill also provides emergency animal shelter and veterinary care for individuals and families with pets needing to evacuate their homes because of wildfire or in situations of extreme heat or cold.

Population served

Greenhill Humane Society serves residents within the wider Lane County region, as well as animals and people throughout Oregon. Our Crisis Care programs for distributing pet food and supplies and disaster response primarily help local individuals and families who are senior, disabled, limited-income, rural, have lack secure housing, or a combination.

Current Programs

- Animal sheltering that includes a high-level of veterinary care and behavioral enrichment.
- Last year, we sheltered and cared for 5,942 animals.
- Adoption of homeless animals to individuals and families;
- Reuniting lost animals with their families;
- Crisis Care sheltering of animals in situations of domestic violence, medical emergencies, and other crisis situations;
- Low-cost spay/neuter surgeries for free roaming, un-owned community cats;
- Pet food and supply pantry for individuals and families who have pets and are struggling financially. This program also distributes pet food and supplies to local community organizations.
- Humane education, promoting respect and care for pets and people.
- Disaster response including community coordination, resource distribution, and providing sheltering for pets so families can safely escape and recover from a disaster.

Operating Budget: Fiscal Year 24/25: \$3,812,712

Greenhill Humane Society

Solar Project

Project Description

With this grant, Greenhill plans to install a 10.56 KW Solar Electric System on its recently constructed Veterinary Medical Clinic roof. This project will increase resiliency, reduce our dependence on non-renewable resources, while reducing expenses, enabling us to put more resources into helping the community.

Greenhill Humane Society is the sole organization in our community that provides large-scale sheltering and veterinary care during times of crisis and disaster. It's critical that Greenhill's organization is sustainable and its campus resilient to potential disasters.

In 2023, Greenhill Humane Society completed a \$6 million expansion and remodel of its humane animal care campus. This enabled Greenhill to provide a high level of animal care with expanded animal sheltering capacity as well as capacity to store pallets of pet food and supplies for use during a disaster. Included in the expansion is on-site water storage that enables the shelter to operate for a minimum of 10 days if a natural disaster impacts the water supply to the campus. Upgrades to the facility have been focused on improving animal welfare, addressing the needs of our community, and environmental sustainability. Included in the goals of the project is the addition of solar electric panels and, eventually, battery storage to enable the shelter to operate independently should the electric grid fail during a disaster event.

This project complements Greenhill's other environmental initiatives which include extensive use of natural light, energy efficient heating and cooling systems and on-site waste-water filtration. The project is consistent with EWEB's mission to enhance our community's vitality by utilizing renewable energy sources thereby reducing our carbon footprint.

This granted project will enhance Greenhill's mission to help people and animals in this community, particularly those who need us most in normal times and in times of crisis: limited income, seniors, disabled, and individuals and families with housing insecurity.

Greenhill intends to engage Advanced Energy Systems to install the proposed project. Specific details of the project can be seen in the proposal by Advanced Energy Systems that is attached. Solar panels will be installed on the flat roof of Greenhill's veterinary medical clinic. While the solar panel project is constructed, we also intend to widely publicize the project; promoting what it represents from an environmental and sustainability perspective as well as what it will do to enhance our community as a whole. Greenhill Humane Society is a destination for many people locally as well as those visiting Eugene. The solar panel project will be a living example of our community's values and a model for other communities.

Project Evaluation

The project will be successful when installed and generating electricity as planned. We are ready to install the panels and equipment as soon as funding is available. We will be monitoring our solar

Greenhill Humane Society Solar Project

energy production through web-based tools and will be able to see the direct impact this project has achieved.

During its lifetime, this project is estimated to offset 5.7 tons of CO2 and save the organization over \$57,000 which will be used to further Greenhill's mission.

This project will have an immediate impact on our current programs that help animals and people within Lane County in two ways. First, the project will result in real energy cost savings which means that more resources can be put directly into helping animals and people. Secondly, the project itself, including web-based monitoring will serve as an educational opportunity. This ties in well with our humane education programs which focus on compassionate and respectful treatment of animals, people, and the environment in which we all live.

The project will have two potential longer-term impacts as well. First, in the event of a natural disaster that impacts utility supplied power in the area, the solar panels will enable us to operate some of our equipment and lighting while the panels generate power. Second, this project will serve as the beginning of a larger system that includes more solar panels and battery backup, ultimately increasing solar electric production and creating more resilience in the event of a disaster.

Long-term effectiveness will be measured by comparing estimated-to-real electricity production and real-time stress testing during disaster events.

Budget and Timeline

The \$50,000 grant will be used to cover the full cost of the proposed system as designed. Any additional funds that may be required to complete the project will come from Greenhill's general fund. See the attached proposal from Advanced Energy Systems.

Greenhill is ready to move forward on installation of the project as soon as the funds are committed.

Thank you for your consideration of this grant.

Sincerely,



Cary Lieberman
Executive Director
Greenhill Humane Society



Turning tax liability into renewable energy



Greenhill Humane Society

Site Location: 88530 Green Hill Road
Eugene, Oregon 97402

10.56 KW Solar Electric System

Presented by
Justin Wilbur
Wednesday, March 12, 2025

Since 2002 Advanced Energy Systems has completed hundreds of solar energy installations throughout the state. Our clients include private commercial, industrial, and residential customers, as well as local, state and federal agencies. We provide a turn-key solution including site evaluation, energy analysis, grant writing, tax incentive analysis, engineering, custom design, project management, installation, and service. Advanced Energy Systems is an Oregon-based company. www.AESrenew.com

This Proposal is valid until 4/11/2025

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Advanced Energy Systems • 65 Centennial Loop, Eugene, OR 97401 • 541-683-2345 • www.aesrenew.com • CCB 160523



To: Cary Lieberman
Re: Greenhill Humane Society
88530 Green Hill Road
Eugene, Oregon 97402

10.56 KW Solar Electric System

System Description:

A 10.56 kW PV power system, including Silfab 440 QD BOB solar modules, a customized racking system, stainless steel module fastening hardware, Solis-1P7.6K-4G-US-APST inverter(s), live solar monitoring web page and all necessary conduit, wire, fuses and disconnects for an NEC-compliant system. Permit fees and utility paperwork included.

Total Cost Installed		\$50,000
Less Tax Credit & Incentives:		
EWEB Grant	(50,000)	
Total Tax Credit & Incentives	<u>(\$50,000)</u>	
Installed Net Cost Sub-Total		\$0
Income Benefit		
35 Year Energy Savings	<u>(57,807)</u>	
Net System Balance		(\$57,807)

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Energy Savings



First Year Savings
12,609 kWh First Year Savings
x \$0.084 From EWEB
= \$1,028.60 Savings



35 Year Energy Savings
405,775 kWh
at 3.7% Energy Rate Inflation
= \$57,807 Total Savings

Environmental Benefits

During its lifetime, this system will offset:



5.7 Tons of CO2

Which is the equivalent to the conservation of:



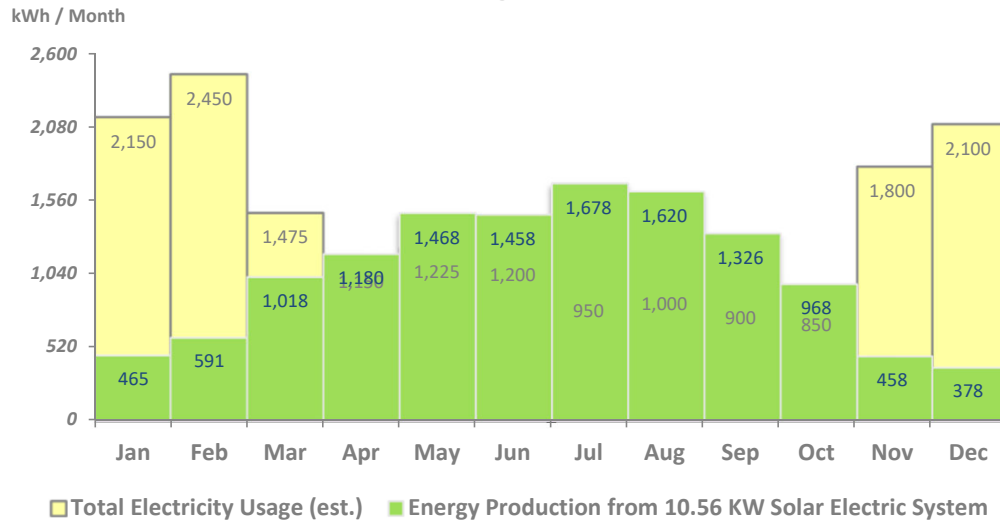
4,250 Trees

or. . .

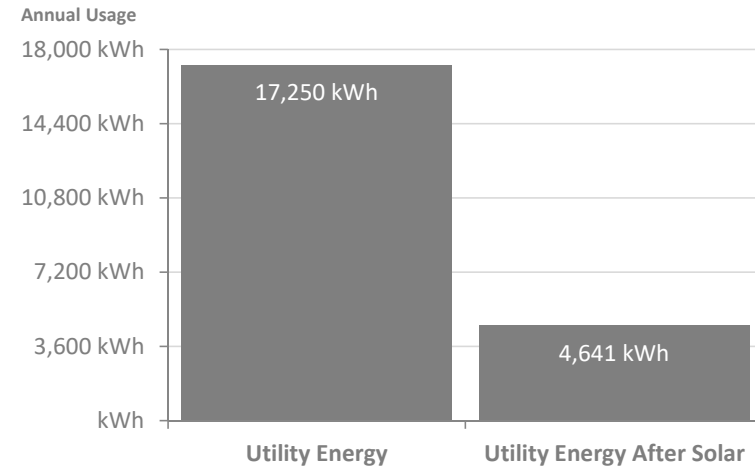


18,630 Gallons of Gasoline

Electrical Usage & Solar Production



Utility Provided Energy Offset by Solar: 73%



Notes:

1. The system will require electrical and structural engineering reports to verify feasibility. These reports are required for obtaining permits. The costs of these reports are included in the total system cost quoted above. The cost estimates in this proposal assume standard installation techniques applicable to most buildings. If engineering determines structural or electrical upgrades are necessary to meet current building codes, the cost of the upgrades will be presented as a change order. Additional cost from change orders is also eligible for tax credits and depreciation benefits to the system owner.
2. Live web based monitoring requires an accessible owner supplied connection to the internet no farther than 25 feet distance from the Solar Inverter. Advanced Energy Systems will either run an ethernet jumper or use ethernet power over wire (pow) "bricks" to make the final ethernet connection to the inverter. If these methods do not work Advanced Energy Systems LLC will charge additional labor and materials at Time and Material rates.
3. Utility or Energy Trust incentives are limited and available on a "first come first served" basis. These incentives require systems to remain operational for a period of time, failure to do so may result in repayment of the prorated grant amount. Cash grants are taxable, check with your financial advisor to determine applicable rates.
4. Specialized roofing procedures, if required by roofing contractor or roofing manufacturer of record, may increase the total cost.

Detailed Layout2

