

2021 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

www.green-hill.org

WEBSITE

Solar Electric Addition

PROPOSAL TITLE

\$50,000

GRANT AMOUNT REQUESTED



SIGNATURE

5/25/2021

DATE

Email completed application and proposal to:

Cheryl Froehlich

Cheryl.Froehlich@eweb.org

Application deadline:

Must be submitted **no later than**

MONDAY, MAY 31, 2021

Questions?

Contact Cheryl Froehlich

cheryl.froehlich@eweb.org

541-685-7676

Proposal: Please write a proposal containing the following elements. Submit the proposal as a PDF with your application.

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.

Greenhill Humane Society Solar Electric Addition Proposal

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 67% 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. Additionally, we are this community's resource for caring for abandoned, abused, and neglected pets. We are also this community's sole resource for sheltering pets in disaster situations.

Population served

Greenhill Humane Society primarily serves residents within the wider Lane County region, but we have helped animals and people throughout Oregon. Our Crisis Care Programs and programs for distributing pet food and supplies primarily help low-income pet owning individuals and families. Our Disaster Program helps families with pets who have been impacted by small or large-scale disasters.

Current Programs

- Animal Sheltering that includes a high-level of medical care and behavioral enrichment.
- 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 bank for individuals and families who have pets and are struggling financially. This program also distributes pet food and supplies to local community food banks.
- Humane education, promoting respect and care for pets and people.
- Disaster response providing sheltering for pets so families can safely escape and recover from a disaster, community coordination, and resource distribution.

Last year, we helped reunite or find new loving homes for 3,630 animals. In addition, we provided 1,341 cat spay/neuter surgeries to assist cat caregivers in reducing feral cat over population. Our humane education program reached more than 12,179 children and adults.

Operating Budget

Total Budget Fiscal Year 20/21: \$2,886,910

Greenhill Humane Society Solar Electric Addition Proposal

Project Description

In 2020, Greenhill Humane Society completed a \$6 million first-phase expansion and remodel of its humane animal care campus. This year, Greenhill hopes to install a 19.78 KW Solar Electric System on the newly constructed Dog Adoption Building. This project will potentially be one of many to reduce Greenhill's reliance on fossil fuels and save energy. The project complements Greenhill's other environmental initiatives designed into the first phase of construction which include extensive use of natural light, energy efficient heating and cooling systems and on-site waste-water filtration. Over its lifetime, this project is estimated to offset 10.6 tons of CO₂ and save the organization over \$90,000 which will be used to further Greenhill's humane mission. While this project does not include battery storage at this time, this system will also take Greenhill one step closer to improving resiliency in the event of an electric outage due to a local or regional disaster.

This project will have an immediate impact on our current programs that help animals and people within Lane County through 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 visible solar panels and 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 takes down utility supplied power in the area, the solar panels will enable us to operate some of our equipment or lighting while the panels generate power. Second, this project may 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. Greenhill is the only shelter for pets in this area that is capable of caring for animals in the event of a natural disaster. It is critical that we are able to remain operational during a disaster event.

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 west-facing roof of Greenhill's dog adoption building. The building itself was recently constructed in 2019.



Greenhill Humane Society
Solar Electric Addition Proposal

Project Evaluation

The project will be successful when installed and generating electricity as planned. We are ready to install the planned panels and equipment as soon as funding is available and would hope that all goes smoothly as planned. We will be monitoring our actual solar energy production through web-based tools and will be able to see the direct impact this project has achieved.

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

Greenhill Humane Society - 19.78 KW Solar Electric System Period Cash Flow (Cash Payment)

Year	System Cost				Utility Grants	System Revenue	Net Cash Flow		
	Cash Outflow				EWEB Grant	Annual Energy Savings	Cash Flow	Net Cash Balance	
1 2021	(\$50,000)				\$50,000	\$1,454	\$1,454	\$1,454	
2 2022						1,500	1,500	2,953	
3 2023						1,548	1,548	4,501	
4 2024						1,597	1,597	6,098	
5 2025						1,648	1,648	7,747	
6 2026						1,701	1,701	9,447	
7 2027						1,755	1,755	11,202	
8 2028						1,811	1,811	13,013	
9 2029						1,869	1,869	14,882	
10 2030						1,928	1,928	16,811	
11 2031						1,990	1,990	18,801	
12 2032						2,054	2,054	20,854	
13 2033						2,119	2,119	22,973	
14 2034						2,187	2,187	25,160	
15 2035						2,257	2,257	27,417	
16 2036						2,329	2,329	29,745	
17 2037						2,403	2,403	32,148	
18 2038						2,480	2,480	34,628	
19 2039						2,559	2,559	37,186	
20 2040						2,640	2,640	39,827	
21 2041		Summary					2,725	2,725	42,551
22 2042						2,812	2,812	45,363	
23 2043	Initial System Cost					2,901	2,901	48,264	
24 2044						2,994	2,994	51,258	
25 2045	Total Tax Credits			0		3,089	3,089	54,347	
26 2046						3,188	3,188	57,535	
27 2047	Utility Incentive			50,000		3,290	3,290	60,825	
28 2048						3,395	3,395	64,220	
29 2049	35 Year Total Energy Savings			91,218		3,503	3,503	67,723	
30 2050						3,615	3,615	71,338	
31 2051	Net System Benefit			\$91,218		3,730	3,730	75,068	
32 2052						3,849	3,849	78,917	
33 2053						3,972	3,972	82,889	
34 2054	Simple Payback			1 Years		4,099	4,099	86,988	
35 2055						4,230	4,230	91,218	
Totals:	(\$50,000)	\$0	\$0	\$0	\$0	\$50,000	\$91,218	\$91,218	

The enclosed figures are shown for discussion purposes only. Please consult with your financial advisor to determine the applicability of all tax credits, tax incentives, energy grants and rebates as your particular financial circumstances may be different from our assumptions. Incentives and rebates may be taxable in some cases. Credits, tax incentives, grants and rebates are subject to availability and are not guaranteed. This document is for the sole use of the intended recipient(s) and may contain proprietary and confidential information.

Energy Savings



First Year Savings
23,309 kWh First Year Savings
x \$0.062 From EWEB
= \$1,453.53 Savings



35 Year Energy Savings
750,129 kWh
at 3.7% Energy Rate Inflation
= \$91,218 Total Savings

Environmental Benefits

During its lifetime, this system will offset:



10.6 Tons of CO2

Which is the equivalent to the conservation of:



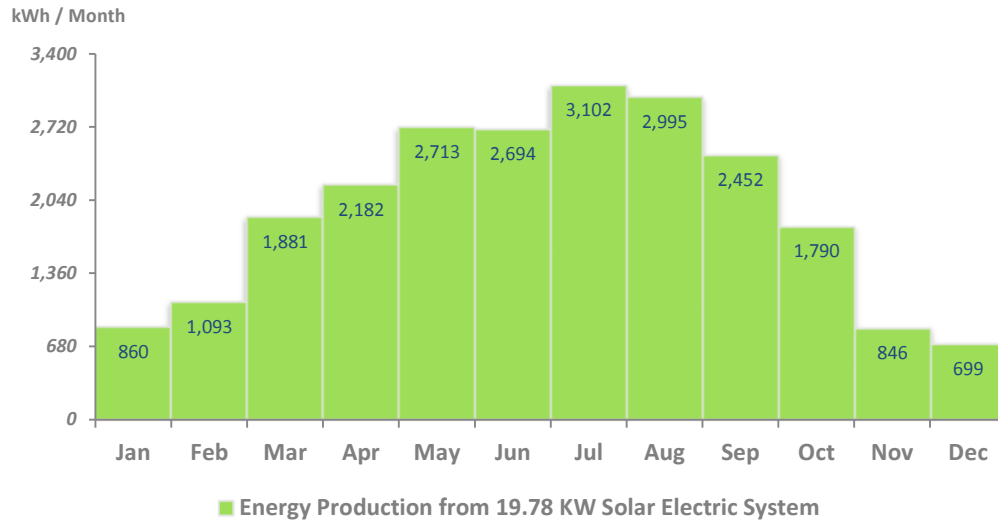
7,850 Trees

or . . .

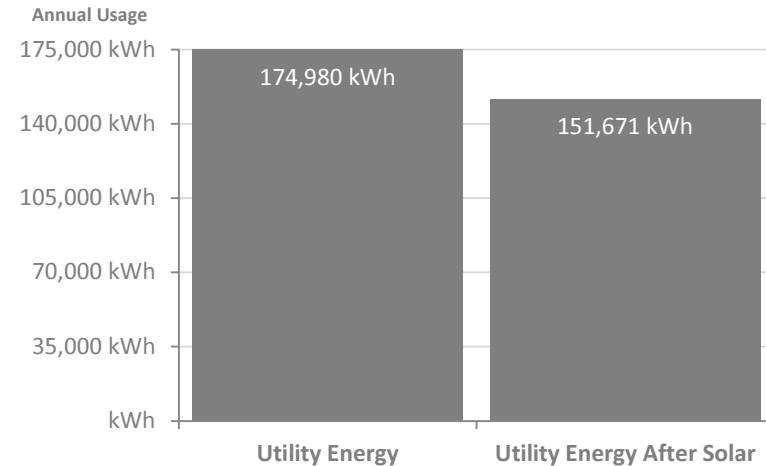


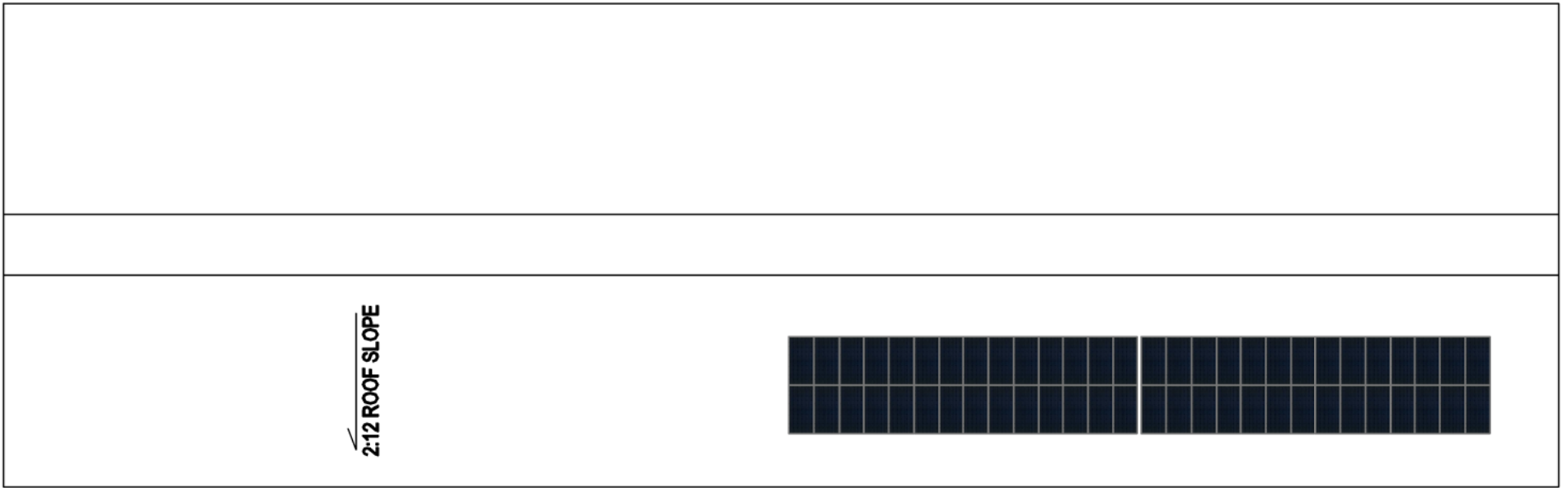
34,440 Gallons of Gasoline

Solar Production



Utility Provided Energy Offset by Solar: 13%





DRAFT #1 BY: TB
Revised 3/8/19

Greenhill Humane Society
20 kW Solar Energy System
88530 Green Hill Road
Eugene, Oregon 97402

*PRELIMINARY, NOT FOR CONSTRUCTION.

Advanced Energy Systems®

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This design was created using solar energy.

Greenhill Humane Society
Board of Directors
2021

Lisa Schor
Jennifer Morrocco
Renee Watts, DDS
Josh Smith
Amanda Weselak
Barry Meyers
Heather Nelson
Leia Pitcher
Sandra Smalley, DVM
Vi Jaqua, Pharm.D
Willy Hart

Greenhill Humane Society
Key Staff Working on Project

Executive Director: Cary Lieberman, CAWA

Cary has been Greenhill's Executive Director since October 2007. Prior to that, he served 3 years as a member of the Board of Directors and spent a year as the shelter's Development Director. In addition to his time at Greenhill, Cary has volunteered with S.P.O.T., the Feral Cat Coalition of Oregon, and served on the Lane County Animal Services Advisory Committee. He brings extensive experience in animal welfare, marketing, public relations and non-profit development. Cary previously worked in the development office at the University of Oregon. In 2009, Cary received his designation as a Certified Animal Welfare Administrator, and in 2014, he completed certification in No-Kill Animal Shelter Management.