

Reducing our community's energy use and producing renewable energy one neighbor, one home, one building at a time.



2019
Annual Report

From the President & Director



Dear Friends & Neighbors

Putting together our annual report allows us the opportunity to reflect on why we all love the Plymouth area community we've created together. The passion, engagement, and support you provide at all levels—contributing financially, volunteering at work days, meeting with us in your home to develop an energy plan—inspires and sustains us. And to the people like you, that support and participate, we say – thank you.

PAREI's 2019 brought with it a year of new growth organizationally and programmatically. With the support you provide, know that 2019 marked a substantial change for PAREI; a change that ensures we are here for the long term.

With the installation of another NH Solar Shares array in Warren, NH, we have doubled the number of families—now up to 20—receiving solar-generated credits on their electric bills. We completed 14 solar PV projects, expanded connections with local partners, and brought renewable energy to more of our fellow non-profits. Organizationally, we've grown too. Our new members tripled in 2019, a technical manager was hired to improve field and office operations, and we established a Finance Committee and Endowment Fund focused on long-term financial sustainability.

Looking ahead, our staff and Board are developing a Strategic Plan to provide an actionable path forward, maintaining PAREI's services and spirit while navigating our growth. We're excited for you to join us on this path.

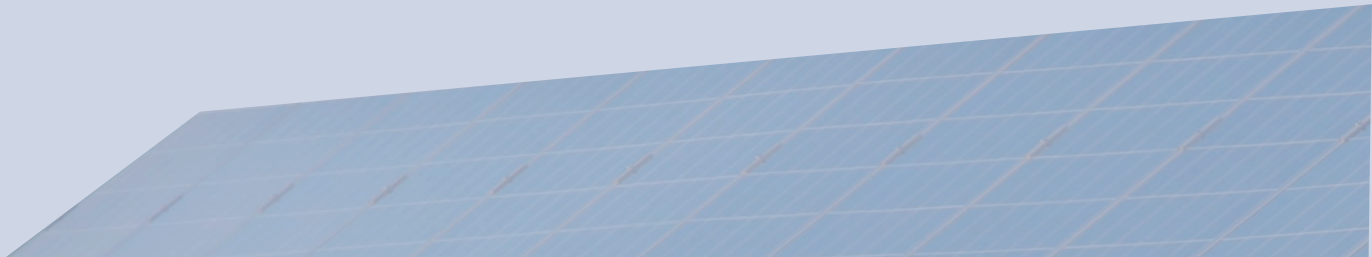
On behalf of all of us at PAREI, thank you for sharing in an energy vision for our community.

With Appreciation,

Sandra Jones
Director

Zak Brohinsky
Board President

The Plymouth Area Renewable Energy Initiative (PAREI) encourages and promotes energy conservation, energy efficiency and the use of renewable energy in homes and businesses in the Plymouth region by offering programs that address energy equity, local food sourcing, educational needs, community outreach and access to professional services. We strive to be a role model for our state and region by sharing our program models and lessons learned.



WHAT WE DO

EDUCATION & COMMUNITY BUILDING

- Energy Exchanges
- NHSaves Button Up Workshops
- Local Foods Plymouth
- Internship Program
- Solar Tours

CONSULT & ADVISE

- On-site Solar Assessments
- Home Energy Savings Consultations
- Local Energy Advisor Network
- Utility Incentive Programs
- Project Development

INSTALL & MAINTAIN

- Residential and Non-profit Solar Installations
- Solar IT Services
- Solar Thermal Assessments and Repairs
- Team of Experts

LOCAL FOOD SOURCING

- Local Foods Plymouth
Year Round On-line Marketplace
Outdoor Farmers Market and Special Events
- Educational Outreach

SHARE & INSPIRE

- NH Solar Shares
- Advocacy
- Best Practices
- Community Partnerships
- PAREI Resources Equipment Lending



The best kind of non-profit to support is a local one where you know the people running it and you can personally see the results of their work. PAREI checks off all the right boxes for integrity, open-mindedness, friendliness, community spirit, good work, and their willingness to share their model with other local communities and beyond. And do not forget PAREI's critical mission as a grassroots effort helping to mitigate the increasingly serious challenges of climate change. For us, it's a no-brainer to support PAREI's innovative and highly successful programs in energy conservation and green energy production.

Tom & Susan Stepp
Holderness, NH

2019 COMMUNITY IMPACT

1109

Local Foods Plymouth
Facebook followers

\$96,082

Donations &
Grants Received

300%

New member
growth
from
2018-2019

466

Panels Installed
151 kW

\$30000

Worth of on-bill
credits to NH
Solar Shares
participants

6

New
Community
Partnerships

PAREI and CADY's Energy Plan Receives Community-Wide Support



CADY's Annual Energy Savings

Solar Savings Gained from Behind the Meter Usage \$390.40

Solar Credits On bill from Exported Solar Energy \$336.02

2019 Total Solar Savings \$726.42

Oil Saved in 2019 (395.4 gallons) \$1,142.71

CADY's Total Energy Savings in 2019 \$1,869.13

In 2019, PAREI received a Community Partner Award from CADY (Communities for Alcohol and Drug Free Youth) for our sustained and successful partnership on a building wide energy reduction plan.

The planning started in 2017, after CADY purchased their building located on Highland Street, across the street from the PAREI office. Tim Tyler, who ran CADY's Restorative Justice Program, suggested they work with PAREI to button up their building and consider renewable energy.

Tyler joined PAREI seven years ago and received assistance with developing an energy plan for his home. That experience led to the CADY/PAREI partnership. Tyler said, "After CADY purchased their facility, I thought to myself..... why not go through the same process I did with my house? From that point on PAREI came to the rescue and we have been reaping the benefits ever since."

Our PSU intern got the project off the ground by assessing the building's solar resource factor and organizing a group of AmeriCorps volunteers to assist with cleaning and prepping CADY's basement.

NH Electric Cooperative's Commercial Heating Equipment and Weatherization Program assigned an energy auditor to the project. The audit recommended closed cell spray foam to insulate the basement's sills and walls. The blower door test revealed air leaks around the bathroom fan, vents, window trim, attic hatch and areas that once housed window styled air-conditioners. PAREI and AmeriCorps volunteers chipped in and ran two work days to complete this first-floor air sealing.

In addition, CADY installed three Mitsubishi Mini Split Heat Pumps (that also cool), and an energy efficient refrigerator. NHEC paid \$2660 in financial incentives for the weatherization and heat pump measures.

Thanks to funding from the NH Charitable Foundation, the project included a 7.2kW solar PV array installed by PAREI and Mauchly Electric. Due to the solar production and shifting away from inefficient AC window units, CADY saved 953kWH during the summer months of 2019 in comparison to 2017.

CADY's Executive Director, Deb Naro, is very pleased with the results. "This project exemplified collaboration at its finest by involving multiple partnerships including PAREI, NH Electric Cooperative, NH Charitable Foundation, Thomas Haas Foundation and many volunteers. The annual savings will impact our non-profit's bottom line for decades to come benefitting our local children! And since we are located on a busy road, we are a role model for the community demonstrating the importance of operating a building in an environmentally sustainable way."



NH Solar Shares - Warren



NH Solar Shares is an exciting and valuable new program for PAREI. The program brings the benefits of solar energy to income eligible families living in the NH Electric Cooperative (NHEC) service territory. The value of the energy generated from the arrays is credited to families' monthly electric bills. The Solar Shares program also offers the shareholders (aka participants) a fun club-like energy education and volunteer program.

This past December (2019), we completed the second NH Solar Shares community array on the donated roof space at Appleknockers General Store in Warren, NH.

The first NH Solar Shares project was built in Plymouth in 2018 on the hillside behind the Frosty Scoops ice cream stand owned by the Common Man Family of Restaurants. This 28kW community array, made up of three ground mounts and two solar pavilions, now serves as an educational picnic area for the public. The project includes a solar education trail that is slated to be finished by summer, 2020.

NH Electric Cooperative played a key role in developing NH Solar Shares. "We are committed to working long term with Solar Shares and support its effort to build community PV arrays in our service area and bring the cost savings of solar energy to more of our members," said Steve Camerino, NHEC President.

We're not stopping at two projects ---- Holderness and Rumney are up next! Please join us as a participant, volunteer or donor. Learn more at www.nhsolarshares.org

"When we first heard about NH Solar Shares and their mission to bring the benefits of solar energy to local families in our area, we were immediately interested," said Appleknockers store owner, Tori Berger. "We like supporting our local community in any way we can and we have the perfect roof for solar panels."



NH Solar Shares Picnic Area

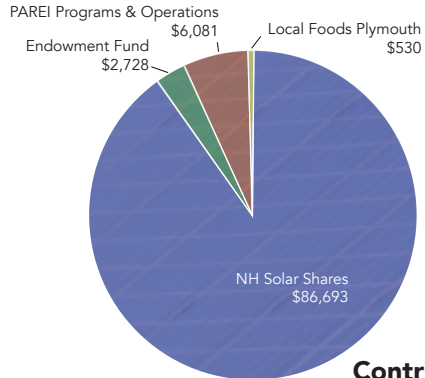
Financial Overview

Support and Revenue

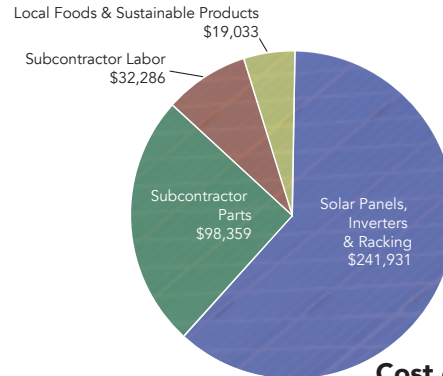
Contributions for General Operations and Programs	\$96,032
Individuals and Businesses	\$29,678
Foundation and Trust Grants	\$62,140
NH Community Development Finance Authority	\$ 4,212
Membership	\$9,120
PAREI	\$8,345
Local Foods Plymouth	\$ 775
Programs and Services	\$499,460
Total Support and Revenue	\$604,612

Expenses

Programs and Services	\$140,508
Cost of Goods and Subcontractors Operations	\$391,609
	\$ 62,283
Total Expenses	\$594,400
Net Income	\$ 10,212



Contribution Designations



Cost of Goods

Board of Directors



Zak Brohinsky, President
University Instructor, PSU
Land Conservation Specialist, Squam Lakes Conservation Society
Holderness, NH

Jenny Highland, Treasurer
Osteopathic Physician and Clinical Instructor
Bridgewater, NH

Joan Turley, Secretary
Consultant and GIS – Natural Resource Management
Plymouth, NH

Carl McNall, Emeritus
Retired from computer industry
Center Sandwich, NH

Doug Campbell, Self -Subsistence Farmer,
Retired Cabinet Maker and US Navy aviation electronic technician.
Wentworth, NH

Richard Hage
Retired – Higher Education Administration
Plymouth, NH

Melissa Leszek
Donor Communications Associate
The Nature Conservancy in New Hampshire
Plymouth, NH

Justin Hardesty
Media Specialist, EVP Marketing and Media
Thornton, NH

Kim Lovett
Executive Director, PbS Learning Institute
Holderness, NH

Chris Buckley
Retired English Teacher, Self-Subsistence Farmer
Plymouth, NH

How You Can Get More Involved

- ✓ Donate to the Endowment Fund for future operations
- ✓ Volunteer this Spring and Summer building the Solar Education Trail
- ✓ Increase your membership level to Partner or Supporter
- ✓ Become a Local Foods Plymouth buyer
- ✓ Borrow a PAREI resource such as the thermal scanner



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