

Energize Delaware Program Activity Report June 2024 to September 2024



Industrial Assessment Center

FY24	31 Energy Audits Completed
FY25	9 Energy Audits Completed

Clients receiving audits often participate in our low-interest loan program, EEIF for Non-Profits and the DNREC EEIF programs.

Affordable Multifamily Housing Program

New Construction	19 projects	1,128 units served
Existing Building	23 projects	1,172 units served

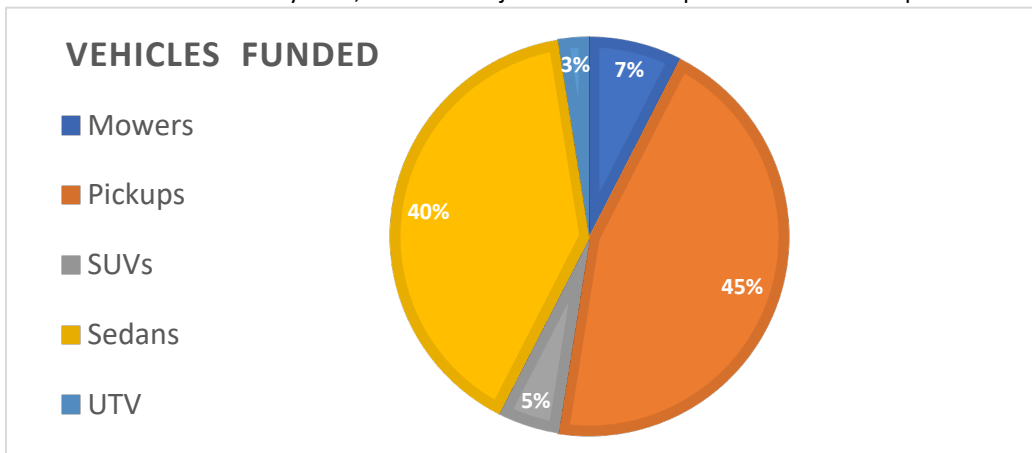
Distributed \$1.3 million in incentives



Farm Program - In FY 24, \$184,417 in incentives were granted to three farms—two poultry farms and one orchard. Measures included tunnel doors, insulation, brood curtains, ventilation fans, and diesel-to-electric motor conversions.

Challenge EV Grants for Local Governments

- \$3.97 million committed of its \$4 million combined FY 24 & FY 25 budget across 23 projects.
- 11 grants have been fully funded and closed out, with energy savings reporting set to begin in January 2025.
- Funding has supported the installation of 68 Level 2 chargers and 1 Level 3 charger for private use by first responders and municipalities.
- E-bikes were funded for Kent County EMS, and electric jaws of life were provided to 5 fire departments.



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Challenge for Libraries

Georgetown	99.91 kW	Operational
Frankford	52 kW	Operational
Lewes	41 kW	In Progress
Selbyville		Bidding



Description of Array Layout: Solar modules have a silver frame, dark cells, and a white backsheet.

ENERGY IMPACT		ENVIRONMENTAL IMPACT	
Projected First Year kWh Production	59,185 kWh	Tons of CO2 Offset/ Year	46.0 Tons
Yearly kWh Usage	70,000 kWh	Tree Offset/ Year	1,071.2 Trees
Estimated Usage Covered by Solar	85%	Barrels of Oil Offset/ Year	97.1 Barrels

Challenge for Schools - The Red Clay School District has completed its ESCO project, which included a solar array funded by Energize Delaware’s Challenge for Schools Grant, amounting to \$500,000. This will:

- Reduce emissions equivalent to 187 cars per year
- Cut CO2 emissions by the equivalent of 103 homes
- Sequester carbon equivalent to 13,019 trees over the next decade

Pathways to Green Ribbon Schools Program



In FY 24, Green Building United collaborated with 11 existing schools and recruited 9 new participants. Three energy audits are underway for Ursuline, Gauger-Cobb Middle School, and St. Edmonds. For FY 25, we are pushing for GBU to extend outreach into Kent and Sussex counties, streamline the mini-grant process, and increase the grant amount from \$3,000 to \$6,000.

Solar system funded by

1,825 modules
750 kW installed in 3 arrays
Producing 1,127,028 kWh annually

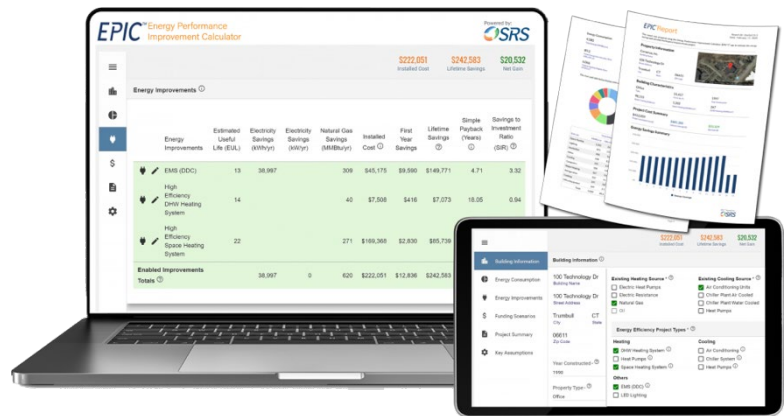
ANNUAL ENVIRONMENTAL IMPACT OF NCC-VOTECH SOLAR ARRAYS

Greenhouse Gas Emissions Avoided From	CO2 Emissions Avoided From	Carbon Sequestered By
187	103	13,019
Passenger vehicles driven for one year	Homes' energy use for one year	Tree seedlings grown for 10 years

Business Technical Assistance Program – SRS

(Sustainable Real Estate Solutions) has conducted energy modeling for small and medium size buildings.

- provided analysis on 18 properties, most properties modeled are considering HVAC work with major capital investments.
- Estimated costs for Energy Efficiency measures are \$1.7M with estimated lifetime energy savings of \$2M.
- Loan modeling completed on 4 different projects; reaching out to discuss our loan program and DNREC EEIF incentives.



EEIF for Non-Profits

- Our partner, Applied Energy Group (AEG), continues to assist clients with potential projects for this program. We have learned that some non-profit organizations pay the Public Utility Tax (PUT) which makes them eligible for the DNREC EEIF program. AEG is working to help these organizations find the appropriate funding paths.

- 7 applications started.
- To date, we have issued two rebates, totaling \$5,500.

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Community Ambassadors – The Southbridge Community in Wilmington hired two community ambassadors, who are Southbridge residents, to educate residents and assist with applications for Energize Delaware programs, the Weatherization Assistance Program (WAP), and the Low-Income Home Energy Assistance Program (LIHEAP). Training for Ambassadors with Home Energy Checkup and Counseling program (HEC2) & Lumeco Energy is set for September 19- 20.



What's your home energy score?



Home Performance with ENERGY STAR Program - Energy Efficient Earth, a contractor with the program, has been recognized by the Department of Energy (DOE) as the #1 Home Energy Score contractor in the nation, having completed over 1,000 projects. The Home Energy Score, developed by DOE, is a one-to-ten scale that estimates each home’s energy use, costs, and solutions. All Home Performance auditing contractors have been trained and certified as Home Energy Score contractors. The Fall All Hands Contractor meeting is scheduled for October 16 in Dover.

	May	June	July	August
Projects	146	143	210	171
Assessments	263	253	272	148
Grand Total	409	396	482	319

Home Energy Counseling & Check-up Program (HEC2)



The program has partnered with Delmarva Power, Delaware Electric Co-op, and Chesapeake Utilities to offer HEC2 appointments to their customers. This service is now available to all Delmarva Power and Chesapeake Utilities customers, regardless of income, and will be extended to market-rate multi-family units in Delmarva Power’s territory.

HEC² REPORTING

Performing Partners

This report shows a breakdown of the number of check-ups each partner performed beginning March 2024.

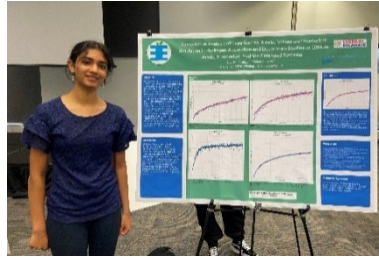
Partner	Mar	Apr	May	June	July	Aug	TOTAL
Central Delaware Habitat (Dover)	0	0	0	0	0	0	0
Franklin Energy (in-house)	18	15	18	25	36	15	127
Lumeco Energy LLC	12	18	14	31	33	2	110
Woodcock Home Energy	0	0	0	8	9	1	18
Total # of Home Energy Check-ups	30	33	32	64	78	18	255

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Empowerment Grant Program

- Elyte Energy’s college interns presented summer research regarding Hydrogen storage systems as part of a \$75,000 grant awarded fall 2023.
- Designing EV car wraps for the \$308,000 Food Bank of Delaware grant.
- Added all grantee awards to program page on [EnergizDelaware.org](https://www.energizedelaware.org), and deactivated EmpowerGrantDE.org website.



Online Marketplace Program

Shop for Energy Saving Products here: [Energize Delaware \(energizedelawaremarketplace.com\)](https://www.energizedelawaremarketplace.com)

192 products have been sold since June. Top sellers include Smart Thermostats, MA-40 Medify Air Purifiers, Wi-Fi and BLE-Enabled Smart Recessed Downlight Retrofit, and the Simply Conserve Tabletop Air Purifier. LED bug bulb 4 packs, Simply conserve air purifiers and filters are also available.

Pre-WAP Program

- New program implementers are under contract. Applied Energy Group (AEG) is overseeing program administration and Energy Efficient Earth is overseeing contractor onboarding and field work. Contractor kick-off meeting was held in August. New procedures are in place and projects have started. The first completed Pre-WAP job will be sent back to WAP in September.

Energize Delaware Residential Loan Programs

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Applications to Date	470	Approved loans totaling	\$ 5,257,090.38
Rejected	96	Completed projects	\$ 4,887,495.72
Withdrawn	3	Construction projects	\$ 369,594.67
Projects Under Construction	19		

Residential Solar Loan Program

Applications to Date	848	Approved loans totaling	\$ 11,977,857.78
Rejected	33	Completed projects	\$ 11,214,058.88
Withdrawn	26	Construction projects	\$ 763,798.90
Projects Under Construction	55		

DSHA Construction Loans - This partnership with DSHA offers new construction loans at 2% interest for developers of affordable multifamily housing. The loans encourage better energy performance than Delaware’s energy code for projects awarded Low-Income Housing Tax Credits (LIHTC) and permanent financing from DSHA as part of the DSHA Qualified Allocation Plan (QAP). Due to COVID and equipment delays, three projects are complete and loans will be repaid this year; two projects still under construction.

Property	Loan Amount	Status
Quaker Arts	\$500,000	Permanent Financing Complete & Fully Leased
Riverside, Phase I	\$500,000	Permanent Financing Complete & Fully Leased
Foster Commons	\$600,000	Permanent Financing expected 9/2024 & Fully Leased
Diamond Court I	\$400,000	Under Construction, ~50% complete
Diamond Court II	\$500,000	Under Construction, ~50% complete

Research and EM&V Activities

Energy Savings Performance Contracting Program Evaluation – We are reviewing the draft evaluation report with Warren Energy. Once the report is complete, we will work with NV5 to update the Energy Savings Performance Contracting (ESPC) program guidelines and guidebook to incorporate recommendations received from the evaluation.

Revamping the database – Energy Orbit is now Brillion, and we have upgraded to the Salesforce Lightning Platform. We are also reviewing licenses to ensure that they are assigned to the appropriate program partners due to staffing and program changes.

M&V and reporting– We discussed the new consolidated report framework proposed by DNREC at the EEAC meetings. Our input of timing, verified energy savings, fuel switching programs and cost-sharing program savings accounting have been accepted.

Research and Pilot Programs– Gabel Associates was selected to conduct the value of solar study. We had our kick-off meeting and started the data request with utilities. We are one of the candidates for a resilience Hub with Solar and Battery at 3 libraries.

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Program	YtD projects count (2024)	YtD GHG Abatement (2024)	YtD Energy Savings (MMBtu 2024)	YtD Cost Savings	
Online Marketplace	281	194	1,922	\$39,812	
Energy Assessments for Non-profits (Implemented)	10	203	1,940	\$37,562	
Energy Assessments for Non-profits (Potential)	11	581	5,466	\$195,137	
Pathways to Green Schools (Potential)	2	334	5,164	\$66,909	
Residential Solar Loans	112	822	5,574	\$212,365	
Affordable Multifamily (Potential)	1	61	147	\$21,160	
Affordable Multifamily (Implemented)	3	72	488	\$-	
Revolving Loans (New Loans 2024)	6	1091	10358*		
Home Performance					
	Jobs	2961	5,031	71,408	\$365,739
	Audits	4211	3,910	663.50*	\$86,120
HEC2	281	24.7	276	\$2,940	
Farm	3	152	2,437	\$111,902	
Pre-WAP	116				

1) All program data reported YtD as Jan- Aug of 2024.

2) Cost savings of the Solar loan and Online Marketplace are calculated as \$0.13/kWh.

3) Energy Assessment program is welcoming a new student late this August, so the data in EO is the record of Sept 2.

4) Home performance audit projects have negative savings in propane, oil and gas, which offset the 3,640 MMBtu of electricity savings.

5) Revolving loans line shows new loans that are in construction phase.

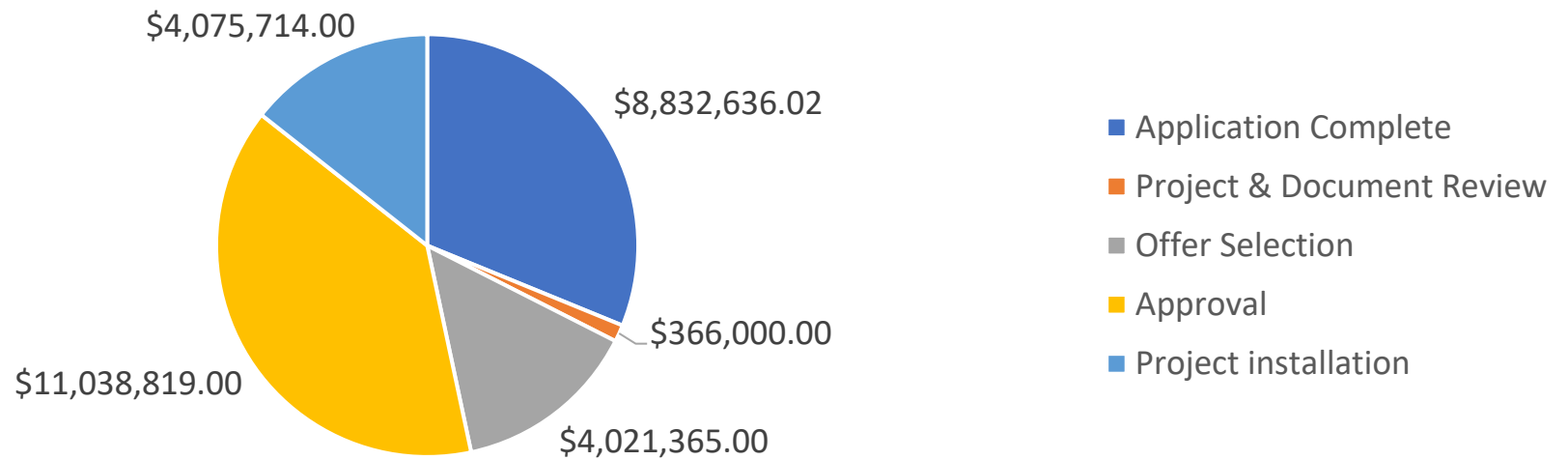
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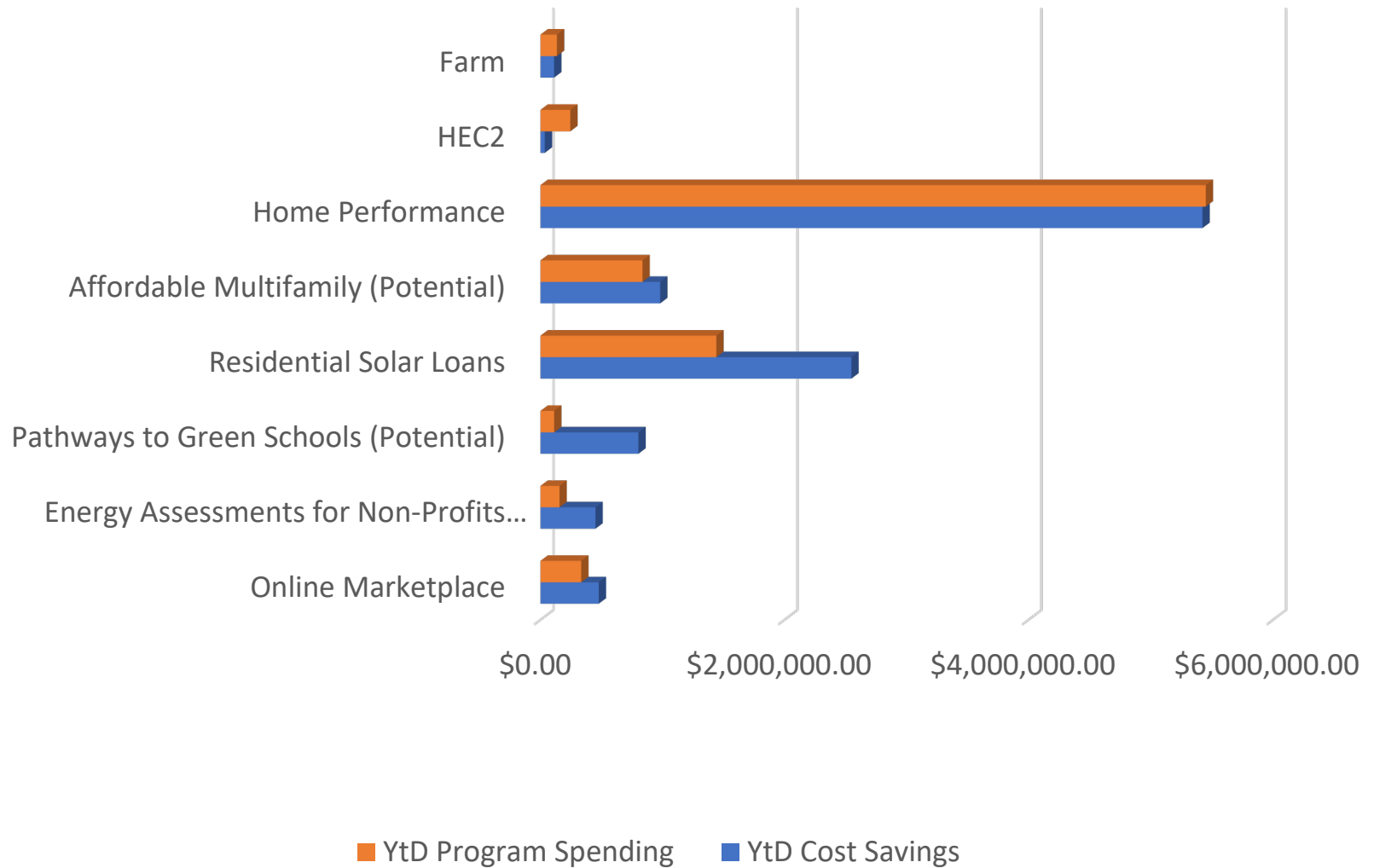
Revolving Loan Application Status Counts



Revolving Loan Application Loan Amount



Lifetime Cost Savings Vs Program Spending



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Program Goals:

	Emissions Reduction	Direct Efficiency	Economic Activity	Natural Climate Solutions	Energy Equity	Changing Behavior Through Awareness	Advancing Technology
Energy Assessments for Non-Profits	√	√				√	
Farm Program	√	√	√	√	√	√	√
C-PACE	√	√	√				√
Pre-WAP	√	√	√		√	√	
Pathways to Green Schools				√		√	
SREC Trade Auction			√				√
Affordable Multifamily Housing	√	√	√		√	√	√
Home Performance	√	√	√		√	√	
Home Energy Counseling and Checkup	√	√	√		√	√	
Community Ambassador					√	√	
Commercial Loans	√	√	√				√
Residential Loan/Solar Loan	√	√	√				√
Online Marketplace	√	√		√		√	√
EEIF for NP	√	√	√				√
Challenge Programs	√	√	√			√	√
Empowerment	√	√		√	√	√	√
Energy-Savings Performance Contracting	√	√	√			√	√