



PASCOAG
UTILITY DISTRICT

2022 Demand Side Management

Mid-Year Report

Docket 5195

Pascoag Utility District
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August 19, 2022

Ms. Luly Massaro
Clerk of the Commission
Rhode Island Public Utilities Commission
89 Jefferson Blvd.
Warwick, RI 02888

Re: Docket 5195

Dear Ms. Massaro,

On behalf of Pascoag Utility District (Pascoag or the District), enclosed are an original and nine copies of Pascoag's Reconciled Demand Side Management Mid-Year Budget for 2022. These submissions include a complete summary of the DSM Budget for 2022 including the activities and expenses, and the approximate energy savings to the District.

This filing is submitted under the terms of the District's Demand Side Management Tariff, currently on file with the commission.

If you have any questions please do not hesitate to contact me.

Very truly yours,


Desarae Dolan
DSM Coordinator

Cc: William Bernstein, Esquire

Highlights of the 2022 DSM Program

Residential Conservation Program

Home Energy Audits with Weatherization Incentives – Customer interest in the home energy audit and weatherization program remains high. A total of 34 home energy audits were performed by Energy New England from January-June. The maximum rebate for weatherization projects was reduced from \$3,000 to \$2,250 in order to serve more customers and the slight decrease to the incentive cap has not hampered the program significantly. 8 residential weatherization projects have been completed with an additional 7 projects scheduled to begin work in the next few weeks. There have been 313 LED lightbulbs, 14 smart strips, and 20 low-flow showerheads that were directly installed into homes that completed an energy audit. \$28,097.82 was paid for this program to date, funded by Regional Greenhouse Gas Initiative (2021-B). In addition, one commercial and industrial energy audit has been performed by RISE at no cost.

Residential Energy Star Offerings – The District processed 30 appliance rebates comprised of 2 refrigerator buybacks, 2 refrigerator purchases, 16 clothes washers, 6 clothes dryers, 2 room air conditioners, 1 dehumidifier and 1 air purifier. The District issued a total of \$2,069.00 in rebates.

HVAC & Water Heating Program- Interest in the District's HVAC & Water Heating Program has continued to grow. Customers have been calling the District office to inquire about rebates and information on the potential RI Office of Energy Resources High Efficiency Heat Pump rebate program. The District rebated 4 mini-splits and 2 heat pump water heaters through June, totaling \$2,175.00 in rebates. Additionally, 6 HVAC projects were completed in July and August alone, showing a major uptick in customer interest in efficient heating and cooling systems.

Enhanced Incentive HVAC Program-The District has a new program this year, offering an enhanced incentive to electric heat customers that install heat pumps, who have already received an energy audit and have weatherized their home. The DSM Coordinator has focused her outreach efforts on a 24 unit condominium complex that has electric resistant heat. Four customers from that complex are currently enrolled in the program and are at different stages of completing the requirements. Two customers have completed the weatherization process and are getting estimates for the HVAC components, one customer is working on getting a weatherization estimate and the last customer is scheduling her energy audit. Given that these customers have not completed the HVAC installs yet, there is no financial activity to report on this program at this time. The District is hopeful that each of these four projects will be completed this year and rebates will be paid to those customers in this program year.

Highlights of the 2022 DSM Program

Committed for 2021 Programs- The District processed 1 air purifier incentive from 2021 that qualified for a \$40.00 rebate.

Pilot Program: Landlord/Renter Weatherization Incentives-In 2021, the District completed 4 weatherization projects at duplex properties. In 2022, the District wanted to focus its efforts on 3-4 unit apartment buildings. This has proven more difficult due to the degree of correspondence that is needed to coordinate and facilitate the process of auditing all the units and scheduling weatherization work. Four landlords initially enrolled in the program. Three of the landlords were not able to coordinate with their tenants regarding gaining entry into the apartments for the home energy audit component of the program. Difficulties arose with tenants moving in/out, quarantining due to the coronavirus or not responding to calls/texts from the landlord regarding the program. The DSM Coordinator has currently enrolled an additional three landlords into the program and is working with them to get energy audits scheduled for all tenants. One landlord has all three tenants either scheduled or having completed their energy audit. There is no financial activity to report on this program yet but we're working closely with the remaining landlords and remain optimistic that their weatherization projects will be completed by the end of the year.

Industrial/ Commercial

Small Business Energy Star Offerings: There is no financial activity to report at this time. This program has been underutilized in previous years. The DSM Coordinator has sent out a survey regarding energy efficiency programs to commercial and industrial customers in order to gain insight into what types of rebate programs would be most beneficial. Responses so far have been slow but the data will be important to help us shape more responsive DSM programs for commercial and industrial customers in the future.

Committed Funds-Lighting & EE Projects- Pascoag Library has completed the second and third phase of their lighting project. The last two phases of the project will reduce their kWh by 2,137 and their kW by 1.38. The project cost \$8,525 with the District providing a rebate of \$2563.00.

The materials for Wallum Lake Rod and Gun Club's lighting project have been ordered but when RISE conducted the preconstruction walk through it was noted that some of the wiring needed to be updated for safety reasons. RISE is working with Wallum Lake to determine how to move forward with the project in light of these wiring issues.

Highlights of the 2022 DSM Program

Ashton Court will not be moving forward with their HVAC project. They were able to fix the existing heating system for less than it would cost to install new mini-split units.

Potential 2022 Lighting & EE Projects-The District is working on two potential projects for 2022. Zambarano Hospital is updating its Power Plant with LED lighting. The total project will reduce their kWh by 99,930 and their kW by 21.01. The project will cost \$68,575.00, with the District providing a rebate of \$19,143.00. Zambarano Hospital is the District's third highest usage customer so we're excited to work with them on this needed upgrade. This project is expected to be completed by the end of 2022.

The Clocktowers Apartment complex is looking to update its common area lighting within the building. If approved by their Board, the project would save 42,141 kWh and reduce their kW by 5.57. The project would cost \$31,621.00 with the District providing a rebate of \$12,781.00. A decision on the project should be made by their Board in the next few weeks.

There is no financial activity to report as these projects are in preliminary phases but if both projects are completed by the end of the year, the District will have spent 95% of the program's budget.

LED Street Light Incentive- The DSM Program rebated Pascoag Utility District \$10,000.00 for the LED Street Light Project that was completed in 2016 in which the District purchased and installed 610 LED Street Lights. This money reduces the Account Receivable from the DSM Program from \$53,096.00 to \$43,096.00.

Administrative

Administrative- The District spent \$9,661.54 on administrative labor, supplies and mileage associated with the various DSM projects.

Energy Consultant-The District spent \$4,696.50 on consultation services provided by Optimal Energy. We have been meeting virtually with Optimal Energy to discuss the DSM program and planning for 2023. They have also assisted the District with its Year-End Reconciliation Report for 2021.

Highlights of the 2022 DSM Program

Program Research and Development- The District uses this line item to have a source of funds to help develop future energy efficiency programs. There is no financial activity to report.

Community Outreach and Education- Events within the community are starting to happen once again. The annual 4th grade Steere Farm Elementary Field trip did not take place in the same way as it had in the past but staff were able to modify the curriculum to take place as an in-classroom visit. Staff members visited with the students and talked about the role of the electric company in the community as well as the importance of energy efficiency and conservation. The 4th graders also worked on posters for the Earth Day poster contest.

The Burrillville Aging Stronger Lunch and Learn event was held on May 11, 2022. 350 Burrillville residents over the age of 55 attended the event. The District had a booth at the event and were able to answer questions and handout flyers with information on our rebate programs. Roughly 300 people visited the booth and were provided information. 36 customers volunteered to fill out surveys regarding their opinion on the District's current residential DSM program. This survey will help inform decisions made on the 2023 DSM program. The survey was also included in their June electric bill and available electronically on our bill pay website.

The District also attended the Burrillville Family Fair on June 18, 2022. Over 1,000 Burrillville residents attended the Fair, with 475 attendees visiting our booth and receiving rebate information. In addition, 53 customers filled out DSM program surveys.

The District has spent \$2,294.91 on advertisements and labor associated with community outreach. The expenses are currently low because staff has been using up some of the fulfillment materials that were purchased prior to the pandemic. Additional materials will need to be ordered at the end of the month. Labor and expenses for the Green Festival were also not included in this figure as it is not happening until September.

Jesse Smith Library Partnership- the Jesse Smith Memorial Library in conjunction with the Public Works Department and the Pascoag Utility District encourages students in grades K-6 to create Earth Day Posters depicting why it is important to recycle and conserve energy in Burrillville. A total of twelve winning posters were chosen to be included in a 2023 calendar which also contained energy conservation and recycling tips. The calendars will be ordered later this fall. The District has also created space for advertisers in this year's calendars to offset some of the expense. The District has spent a total of \$642.13 on this project to date for prizes, materials and labor.

Highlights of the 2022 DSM Program

Energy Efficiency Management Continuing Education- Staff has attended free virtual meetings/conferences but has not participated in any offsite meetings at this time. There is no financial activity to report.

Pascoag's 2022 DSM Program has been off to a slower start. High inflation may be contributing to customers holding off on major purchases right now and several programs have experienced unforeseen challenges in customer completion of projects. The District is continuing to get rebate program information out to customers in a variety of ways and remaining engaged with customers in the process of completing energy efficiency projects. The total budget for 2022 was \$223,514.60; with \$107,548.00 estimated to be collected from customer billing, \$245.61 from carry over 2021 RGGI Funds, \$75,000.00 from 2022 RGGI Funds and the actual carry over funds from 2021 of \$40,720.99. The total expenses to date for 2022 were \$62,239.90.

Exhibit I: 2022 Approved Budget

Pascoag Utility District
Demand Side Management Programs - 2022 Approved Budget

	<u>Estimated</u>	<u>Actual</u>
Carryover from 2021	\$ 38,373	\$ 40,720.99
Estimated sales for 2022	\$ 107,548	\$ 107,548.00
RGGI Funds	\$ 75,000	\$ 75,000.00
RGGI Fund Carryover 2021	\$ -	\$ 245.61
Net 2022 budget	\$ 220,921	\$ 223,514.60

2022 Proposed
Budget

<u>Residential Program</u>		
DR2201	\$ 60,246	60 audits and weatherization incentives-RGGI Funds
DR2202	\$ 8,000	Energy Star Appliances and Refrigerator/Freezer Purchase & Buyback Program
DR2203	\$ 8,000	Central AC, Central Heat Pump, Mini-Split Heat Pumps and Heat Pump Water Heaters
DR2204	\$ 10,000	4 rebates for electric resistant heat customers who have had an energy audit and weatherized their home
DR2205	\$ 1,500	To accommodate programs with depleted funds from 2021
DR2206	\$ 30,000	Energy Audits and Weatherization for Rental Units. \$15,000 will come from RGGI Funds
Net Residential	\$ 117,746	
<u>Industrial/Commercial</u>		
DI2201	\$ 1,200	ENERGY STAR Equipment and Commercial Appliances
DI2202	\$ 10,400	Ashton Court Mini-Split Project and Wallum Lake Rod & Gun Club LED Lighting Project, 2021 Pascoag Library
DI2203	\$ 33,569	
DI2204	\$ 10,000	Public Street Lighting Project
Net Industrial/Commercial	\$ 55,169	
<u>Administrative</u>		
DA2201	\$ 21,000	Administrative labor, mileage and supplies.
DA2202	\$ 10,000	Energy Consultant to provide guidance and recommendations on DSM program.
DA2203	\$ 500	Funds for future development of programs.
Net Administrative	\$ 31,500	
<u>Community Outreach, Marketing & Education</u>		
DC2201	\$ 14,000	Billing inserts, conservation promotional items, advertisements, community events and EE education
DC2202	\$ 3,600	To partner with the Jesse Smith Library on an Energy Efficiency Project.
	\$ -	Combined Community Events with Outreach and Education
DC2203	\$ 1,500	Workshops and Conferences related to the DSM program
Net Community Outreach, Marketing & Education	\$ 19,100	
Estimated DSM 2022 Budget/ Expenses/ Balance	\$ 223,514.60	

Exhibit II: 2021 Expenses and Balances

Pascoag Utility District
Demand Side Management Programs - 2022 Approved Budget

	<u>Estimated</u>	<u>Actual</u>
Estimated/Actual carry over from 2021	\$ 38,373.00	\$ 40,720.99
Estimated sales for 2022	\$ 107,548.00	\$ 107,548.00
RGGI Funds	\$ 75,000.00	\$ 75,000.00
Estimated/Actual RGGI Fund Carryover 2021	\$ -	\$ 245.61
Net 2021 budget	\$ 220,921.00	\$ 223,514.60

	<u>2022 Approved</u>		
	<u>Budget</u>	<u>Expenses</u>	<u>Balance</u>
<u>Residential Program</u>			
DR2201 Residential Weatherization Program	\$ 60,245.61	\$ 28,097.82	\$ 32,147.79
DR2202 Residential ENERGY STAR Offerings	\$ 8,000.00	\$ 2,069.00	\$ 5,931.00
DR2203 HVAC & Water Heating Program	\$ 8,000.00	\$ 2,175.00	\$ 5,825.00
DR2204 Enhanced Incentive HVAC Program	\$ 10,000.00	\$ -	\$ 10,000.00
DR2205 Committed for 2021 Programs	\$ 1,500.00	\$ 40.00	\$ 1,460.00
DR2206 Pilot Program: Landlord/Renter Weatherization Incentives	\$ 30,000.00	\$ -	\$ 30,000.00
Net Residential	\$ 117,745.61	\$ 32,381.82	\$ 85,363.79
<u>Industrial/Commercial</u>			
DI2201 Small Business ENERGY STAR Offerings	\$ 1,200.00	\$ -	\$ 1,200.00
DI2202 Committed Funds- Lighting & EE Projects	\$ 10,400.00	\$ 2,563.00	\$ 7,837.00
DI2203 Potential 2022 Lighting & EE Projects	\$ 33,568.99	\$ -	\$ 33,568.99
DI2204 LED Street Light Incentive	\$ 10,000.00	\$ 10,000.00	\$ -
			\$ -
Net Industrial/Commercial	\$ 55,168.99	\$ 12,563.00	\$ 42,605.99
<u>Administrative</u>			
DA2201 Administrative	\$ 21,000.00	\$ 9,661.54	\$ 11,338.46
DA2202 Energy Consultant	\$ 10,000.00	\$ 4,696.50	\$ 5,303.50
DA2203 Program Research and Development	\$ 500.00	\$ -	\$ 500.00
			\$ -
Net Administrative	\$ 31,500.00	\$ 14,358.04	\$ 17,141.96
<u>Community Outreach, Marketing & Education</u>			
DC2201 Community Outreach and Education	\$ 14,000.00	\$ 2,294.91	\$ 11,705.09
DC2202 Jesse Smith Library Partnership	\$ 3,600.00	\$ 642.13	\$ 2,957.87
DC2203 Energy Efficiency Management continuing education	\$ 1,500.00	\$ -	\$ 1,500.00
			\$ -
			\$ -
Net Community Outreach, Marketing & Education	\$ 19,100.00	\$ 2,937.04	\$ 16,162.96
Estimated DSM 2022 Budget/ Expenses/ Balance	\$ 223,514.60	\$ 62,239.90	\$ 161,274.70

Exhibit III: Savings Associated with DSM Projects

Residential Programs Totals	
Program Expenses	\$32,382
Annual kWh Electric Savings	17,996
Lifetime kWh Electric Savings	179,414
Summer Peak kW Savings	3.6
Participants	62
Lifetime kWh Electric Savings per Participant	2,894
Cost/Lifetime kWh Electric Savings	\$0.18
Lifetime Carbon Reductions (Short Tons)	162

DR2201: Residential Weatherization Program	
Program Expenses	\$28,098
Annual kWh Electric Savings	9,752
Lifetime kWh Electric Savings	72,038
Summer Peak kW Savings	2.46
Participants	37
Lifetime kWh Electric Savings per Participant	1947
Cost/Lifetime kWh Electric Savings	\$0.39

DR2202: Residential ENERGY STAR Offerings	
Program Expenses	\$2,069
Annual kWh Electric Savings	3,990
Lifetime kWh Electric Savings	45,700
Summer Peak kW Savings	0.72
Participants	20
Lifetime kWh Electric Savings per Participant	2,285
Cost/Lifetime kWh Electric Savings	\$0.05

DR2203: HVAC & Water Heating Program	
Program Expenses	\$2,175
Annual kWh Electric Savings	3,997
Lifetime kWh Electric Savings	59,354
Summer Peak kW Savings	0.37
Participants	4
Lifetime kWh Electric Savings per Participant	14,839
Cost/Lifetime kWh Electric Savings	\$0.04

DR2204: Enhanced Incentive HVAC Program	
Program Expenses	\$0
Annual kWh Electric Savings	0
Lifetime kWh Electric Savings	0
Summer Peak kW Savings	0.00
Participants	0
Lifetime kWh Electric Savings per Participant	
Cost/Lifetime kWh Electric Savings	

DR2205: Committed for 2021 Programs	
Program Expenses	\$40
Annual kWh Electric Savings	258
Lifetime kWh Electric Savings	2,321
Summer Peak kW Savings	0.05
Participants	1
Lifetime kWh Electric Savings per Participant	2,321
Cost/Lifetime kWh Electric Savings	\$0.02

DR2206: Pilot Program - Landlord/Renter Weatherization Incentives	
Program Expenses	\$0
Annual kWh Electric Savings	0
Lifetime kWh Electric Savings	0
Summer Peak kW Savings	0.00
Participants	0
Lifetime kWh Electric Savings per Participant	
Cost/Lifetime kWh Electric Savings	

Commercial & Industrial Programs	
Program Expenses	\$12,563
Annual kWh Electric Savings	1,975
Lifetime kWh Electric Savings	21,720
Summer Peak kW Savings	0.7
Participants	1
Lifetime kWh Electric Savings per Participant	21,720
Cost/Lifetime kWh Electric Savings	\$0.58
Lifetime Carbon Reductions (Short Tons)	10

DI2201: Small Business ENERGY STAR Offerings	
Program Expenses	\$0
Annual kWh Electric Savings	0
Lifetime kWh Electric Savings	0
Summer Peak kW Savings	0.00
Participants	0
Lifetime kWh Electric Savings per Participant	
Cost/Lifetime kWh Electric Savings	

DI2202: Committed Funds - Lighting & EE Projects	
Program Expenses	\$2,563
Annual kWh Electric Savings	1,975
Lifetime kWh Electric Savings	21,720
Summer Peak kW Savings	0.7
Participants	1
Lifetime kWh Electric Savings per Participant	21,720
Cost/Lifetime kWh Electric Savings	\$0.12

DI2203: Potential 2022 Lighting & EE Projects	
Program Expenses	\$0
Annual kWh Electric Savings	0
Lifetime kWh Electric Savings	0
Summer Peak kW Savings	0.0
Participants	0
Lifetime kWh Electric Savings per Participant	
Cost/Lifetime kWh Electric Savings	

DI2204: LED Street Light Incentive	
Program Expenses	\$10,000

