



PASCOAG
UTILITY DISTRICT

2023 Demand Side Management

Mid-Year Report

Docket No. 22-40-EE

Pascoag Utility District
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Pascoag, RI 02859

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August 25, 2023

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

Re: Docket No. 22-40-EE

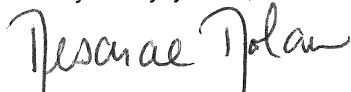
Dear Ms. Massaro,

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 2023. These submissions include a complete summary of the DSM Budget for 2023 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 2023 DSM Program

Residential Conservation Program

Home Energy Audits with Weatherization Incentives – Interest from customers in the home energy audit and weatherization program continues to remain strong. A total of 38 home energy audits were performed by Energy New England from January-June. The maximum rebate for customers who move forward with weatherization projects is \$2,250. Through June, 9 residential weatherization projects have been completed. There have been 212 LED lightbulbs, 18 smart strips, 10 faucet aerators and 14 low-flow showerheads that were directly installed into homes that completed an energy audit. Pascoag has sent letters to its' 73 electric resistant heat customers making them aware of the weatherization program. Additionally, Pascoag sent postcards out to all electric heat resistant customers and invited them to stop by our table at the Jesse Smith Library on April 29th to get information on energy audits, weatherization and our HVAC programs. Roughly a dozen customers stopped by to pick up information and ask questions. Pascoag has also been advertising its weatherization program with a bill insert, on the web payment portal and at local events. Through June, \$35,676.15 of the program budget, which is funded by Regional Greenhouse Gas Initiative (2021-B) has been spent.

Residential Energy Star Offerings – The District processed 28 appliance rebates comprised of 2 refrigerator buybacks, 1 refrigerator purchase, 8 clothes washers, 4 clothes dryers, 11 room air conditioners, and 2 dehumidifiers. The District issued a total of \$1,613.00 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 upcoming Clean Heat Rhode Island rebate program. The District rebated 7 ductless mini-splits and 1 central heat pump through June, totaling \$4,725.00 in rebates. The District will be providing information to customers regarding the Clean Heat Rhode Island Program at the upcoming Green Festival in September.

Enhanced Incentive HVAC Program-This program offers 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 have completed energy audits. Three of the four customers are interested in exploring HVAC options but would like to wait to see what the upcoming Clean Heat Rhode Island program will offer in the way of any additional incentives before they commit to the project. The complex has also received two direct mailings on the District's energy audit/weatherization program to date.

Highlights of the 2023 DSM Program

Pascoag has been in direct communication with the staff from Clean Heat Rhode Island program and are anticipating the program details to be announced on September 1st by the Governor's office. Once the details of the program are announced, Pascoag will send additional information out to its customers with a focus on customers that have electric resistant heat. No funds have been expensed from this program to date.

Committed for 2021 Programs- The District processed 1 clothes washer, 1 dryer and 1 ductless mini-split rebate from 2022 that qualified but were turned in after January 1, 2023. The District issued a total of \$850.00 in rebates.

Industrial/ Commercial

Small Business Energy Star Offerings: The District processed one rebate for a ductless mini split in the amount of \$525.00.

Committed Funds-Lighting & EE Projects

Zaborano Hospital Phase 2

Zaborano Hospital's RFP was put out to bid and awarded. Materials have been ordered and construction is expected to begin on the project by the end of August/beginning of September. The project is expected to cost \$450,000.00 and will save an estimated 235,000 kwh annually.

Potential 2023 Lighting & EE Projects

Burrillville High School & Hauser Field

Burrillville High School had an energy audit completed to review what lighting has been purchased and what still needed to be purchased to complete the lighting project. The RFP has been created and is awaiting review by the Burrillville School Department before the project is put out to bid. The lighting project will save an estimated 273,000 kwh annually.

Hauser Field is a multi-sport field that is used for night practices and games. The field has old stadium style, incandescent lighting that is very costly for the Town to operate and they've wanted to convert the lights to LED lighting but it has been cost prohibitive in the past. OER was able to work with the Town and incorporate the project into the Burrillville High School Lighting Project. The Town is providing \$30,000 in funding towards the project with the remaining funds being contributed by RIOER's School Lighting Accelerator program. The RFP has been created and is awaiting review by the Town of Burrillville before the project is put out to bid. The project is estimated to save 39,220 kwh annually.

Highlights of the 2023 DSM Program

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 \$43,096.00 to \$33,096.00.

Administrative

Administrative- The District spent \$9,447.48 on administrative labor, supplies and mileage associated with the various DSM projects.

Energy Consultant-The District spent \$1,399.25 on consultation services provided by Optimal Energy. They have also assisted the District with its Year-End Reconciliation Report for 2022 and its' annual EIA-861 report on estimated energy savings.

Community Outreach, Marketing & Education

Community Outreach and Education- Pascoag staff has been busy with outreach events in the community during the first half of the year. Staff members visited with 4th grade students at Steere Farm Elementary 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 3, 2023. 375 Burrillville residents over the age of 55 attended the event. The District had a booth at the event and was able to answer questions and handout flyers with information on our rebate programs as well as information on LIHEAP. Roughly 300 people visited the booth and were provided information and LED nightlights.

The District typically attends the Burrillville Family Fair in June but it was cancelled due to it being rained out the day of the event and the rain date.

Staff tabled at the Pascoag Spring Splash event on June 3rd and were able to hand out energy efficiency program information and talk with customers about weatherization projects and answer HVAC related questions over the course of three hours.

Highlights of the 2023 DSM Program

The District has spent \$2,987.10 on advertisements, fulfillment materials and labor associated with community outreach.

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 2024 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 \$538.59 on this project to date for prizes, materials and labor.

Energy Efficiency Management Continuing Education- Staff have attended mainly free virtual meetings and conferences. The DSM Coordinator participated in the virtual training program-"Heat Pump Advocates for Decarbonization Technologies" created by Abode Energy Management in order to prepare for the upcoming Clean Heat Rhode Island program launch . The training took place over the course of 5 weeks, with a 2 hour session held each week. The training focused on air-source heat pumps, but also covered building mechanical systems, basic building science and other decarbonization technologies. The District has spent a total of \$800 on continuing education through June.

Pascoag's 2023 DSM Program has been on pace with its expenses compared to last year's report. High inflation still seems to be contributing to customers holding off on major purchases right now and many customers have held off implementing new HVAC systems as they are waiting for Clean Heat Rhode Island's program to launch. The District is continuing to get rebate program information out to customers in a variety of ways and remains engaged with customers in the process of completing energy efficiency projects. The total budget for 2023 was \$218,703.00; with \$162,042.00 estimated to be collected from customer billing, \$1,182.00 from carry over 2022 RGGI Funds, \$35,700.00 from 2023 RGGI Funds and the actual carry over funds from 2022 of \$19,779.00. Through June, program expenses for 2023 totalled \$68,561.57.

Exhibit I: 2023 Approved Budget

Pascoag Utility District
Demand Side Management Programs - 2023 Approved Budget

	<u>Estimated</u>	<u>Actual</u>
Carryover from 2022	\$ 19,035	\$ 19,779
Estimated sales for 2022	\$ 162,042	\$ 162,042
RGGI Funds	\$ 35,700	\$ 35,700
RGGI Fund Carryover 2022	\$ -	\$ 1,182
Net 2022 budget	\$ 216,777	\$ 218,703

	<u>2023 Approved Budget</u>
<u>Residential Program</u>	
DR2301 Residential Weatherization Program	\$ 73,182
DR2302 Residential ENERGY STAR Offerings	\$ 5,000
DR2303 HVAC & Water Heating Program	\$ 12,244
DR2304 Enhanced Incentive HVAC Program	\$ 10,000
DR2305 Committed for 2022 Programs	\$ 717
Net Residential	\$ 101,143
<u>Industrial/Commercial</u>	
DI2301 Small Business ENERGY STAR Offerings	\$ 1,200
DI2302 Committed Funds- Lighting & EE Projects	\$ 20,844
DI2303 Potential 2023 Lighting & EE Projects	\$ 33,416
DI2304 LED Street Light Incentive	\$ 10,000
Net Industrial/Commercial	\$ 65,460
<u>Administrative</u>	
DA2301 Administrative	\$ 23,000
DA2302 Energy Consultant	\$ 10,000
Net Administrative	\$ 33,000
<u>Community Outreach, Marketing & Education</u>	
DC2301 Community Outreach and Education	\$ 14,000
DC2302 Jesse Smith Library Partnership	\$ 3,600
DC2303 Energy Efficiency Management continuing education	\$ 1,500
Net Community Outreach, Marketing & Education	\$ 19,100
Estimated DSM 2022 Budget/ Expenses/ Balance	\$ 218,703

Exhibit II: 2023 Expenses and Balances

Pascoag Utility District
Demand Side Management Programs - 2023 Approved Budget

	<u>Estimated</u>	<u>Actual</u>
Carryover from 2022	\$ 19,035	\$ 19,779
Estimated sales for 2023	\$ 162,042	\$ 162,042
RGGI Funds	\$ 35,700	\$ 35,700
RGGI Fund Carryover 2022	\$ -	\$ 1,182
Net 2023 budget	\$ 216,777	\$ 218,703

		<u>2023 Approved</u>		
		<u>Budget</u>	<u>Expenses</u>	<u>Balance</u>
<u>Residential Program</u>				
DR2301	Residential Weatherization Program	\$ 73,182	\$ 35,676.15	\$ 37,505.44
DR2302	Residential ENERGY STAR Offerings	\$ 5,000	\$ 1,613.00	\$ 3,387.00
DR2303	HVAC & Water Heating Program	\$ 12,244	\$ 4,725.00	\$ 7,519.21
DR2304	Enhanced Incentive HVAC Program	\$ 10,000	\$ -	\$ 10,000.00
DR2305	Committed for 2022 Programs	\$ 717	\$ 850.00	\$ (133.00)
	Net Residential	\$ 101,143	\$ 42,864.15	\$ 58,278.65
<u>Industrial/Commercial</u>				
DI2301	Small Business ENERGY STAR Offerings	\$ 1,200	\$ 525.00	\$ 675.00
DI2302	Committed Funds- Lighting & EE Projects	\$ 20,844	\$ -	\$ 20,844.00
DI2303	Potential 2023 Lighting & EE Projects	\$ 33,416	\$ -	\$ 33,416.00
DI2304	LED Street Light Incentive	\$ 10,000	\$ 10,000.00	\$ -
	Net Industrial/Commercial	\$ 65,460	\$ 10,525.00	\$ 54,935.00
<u>Administrative</u>				
DA2301	Administrative	\$ 23,000	\$ 9,447.48	\$ 13,552.52
DA2302	Energy Consultant	\$ 10,000	\$ 1,399.25	\$ 8,600.75
	Net Administrative	\$ 33,000	\$ 10,846.73	\$ 22,153.27
<u>Community Outreach, Marketing & Education</u>				
DC2301	Community Outreach and Education	\$ 14,000	\$ 2,987.10	\$ 11,012.90
DC2302	Jesse Smith Library Partnership	\$ 3,600	\$ 538.59	\$ 3,061.41
DC2303	Energy Efficiency Management continuing education	\$ 1,500	\$ 800.00	\$ 700.00
	Net Community Outreach, Marketing & Education	\$ 19,100	\$ 4,325.69	\$ 14,774.31
	Estimated DSM 2023 Budget/ Expenses/ Balance	\$ 218,703	\$ 68,561.57	\$ 150,141.23

Exhibit III: Savings Associated with DSM Projects

Residential Programs Totals	
Program Expenses	\$42,864
Annual kWh Electric Savings	19,643
Lifetime kWh Electric Savings	175,142
Summer Peak kW Savings	2.9
Participants	74
Lifetime kWh Electric Savings per Participant	2,367
Cost/Lifetime kWh Electric Savings	\$0.24
Lifetime Carbon Reductions (Short Tons)	202

DR2301: Residential Weatherization Program	
Program Expenses	\$35,676
Annual kWh Electric Savings	11,432
Lifetime kWh Electric Savings	49,369
Summer Peak kW Savings	1.81
Participants	42
Lifetime kWh Electric Savings per Participant	1,175
Cost/Lifetime kWh Electric Savings	\$0.72

DR2302: Residential ENERGY STAR Offerings	
Program Expenses	\$1,613
Annual kWh Electric Savings	2,631
Lifetime kWh Electric Savings	29,797
Summer Peak kW Savings	0.53
Participants	22
Lifetime kWh Electric Savings per Participant	1,354
Cost/Lifetime kWh Electric Savings	\$0.05

DR2303: HVAC & Water Heating Program	
Program Expenses	\$4,725
Annual kWh Electric Savings	4,948
Lifetime kWh Electric Savings	85,014
Summer Peak kW Savings	0.46
Participants	8
Lifetime kWh Electric Savings per Participant	10,627
Cost/Lifetime kWh Electric Savings	\$0.06

DR2304: 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	

DR2305: Committed for 2022 Programs	
Program Expenses	\$850
Annual kWh Electric Savings	631
Lifetime kWh Electric Savings	10,963
Summer Peak kW Savings	0.06
Participants	2
Lifetime kWh Electric Savings per Participant	5,481
Cost/Lifetime kWh Electric Savings	\$0.08

Commercial & Industrial Programs	
Program Expenses	\$10,525
Annual kWh Electric Savings	514
Lifetime kWh Electric Savings	9,254
Summer Peak kW Savings	0.0
Participants	1
Lifetime kWh Electric Savings per Participant	9,254
Cost/Lifetime kWh Electric Savings	\$1.14
Lifetime Carbon Reductions (Short Tons)	4

DI2301: Small Business ENERGY STAR Offerings	
Program Expenses	\$525
Annual kWh Electric Savings	514
Lifetime kWh Electric Savings	9,254
Summer Peak kW Savings	0.04
Participants	1
Lifetime kWh Electric Savings per Participant	9,254
Cost/Lifetime kWh Electric Savings	\$0.06

DI2302: Committed Funds - 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	

DI2303: Potential 2023 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	

DI2304: LED Street Light Incentive	
Program Expenses	\$10,000