



PASCOAG
UTILITY DISTRICT

2023 Demand Side Management
Reconciled Full Year Budget
Docket No. 22-40-EE

Pascoag Utility District
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March 26, 2024

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 remained strong throughout 2023. A total of 56 home energy audits were performed by Energy New England from January-December. The maximum rebate for customers who move forward with weatherization projects is \$2,250. Additionally 22 weatherization projects have been completed. There have been 226 LED lightbulbs, 19 smart strips, 29 faucet aerators and 25 low-flow showerheads that were directly installed into homes that completed an energy audit. Through December, \$72,477.29 of the program budget was spent, with \$36,882.00 of the budget funded by Regional Greenhouse Gas Initiative (2021-B).

Residential Energy Star Offerings – The District processed 80 appliance rebates comprised of 11 refrigerator buybacks, 9 refrigerator purchase, 1 freezer buyback, 1 freezer purchase, 20 clothes washers, 13 clothes dryers, 20 room air conditioners, and 4 dehumidifiers. The District issued a total of \$5,013.00 in rebates.

HVAC & Water Heating Program- Interest in the District's HVAC & Water Heating Program has continued to grow. Customers have been reaching out to the District office to inquire about rebates and information on the Clean Heat Rhode Island rebate program. The District rebated 15 ductless mini-splits, 4 central heat pumps and 1 mixed ducted mini-split through December, totaling \$12,250.00 in rebates. The District provided information to customers regarding the Clean Heat Rhode Island Program at the September 2023 Green Festival.

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 were interested in exploring HVAC options but have chosen not to move forward at this time for various reasons. One of the major barriers for residents of this complex are installation rules determined by the Homeowners Association. The Homeowners Association is not willing to allow residents to install the mini-splits at the front of the condo units because they are concerned about the aesthetics of its placement. There are decks on the back of each condo unit that prohibit the outdoor unit from being placed at the back of the building due to lack of space. PUD will continue to advertise this program and reach out to customers that qualify. No funds were expensed from this program in 2023.

Highlights of the 2023 DSM Program

Committed for 2022 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, awarded and materials were ordered. As some of the materials were backordered, the installation was put on hold until all materials were received in order to minimize disruption in patient's rooms. Construction was not expected to begin until December 2023 with an updated completion date of March 2024. PUD requested to move the funds for Zaborano Hospital's lighting project to a separate line item in the 2024 DSM budget due to the delay in construction. The project is expected to cost \$450,000.00 and will save an estimated 235,000 kWh.

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. A detailed lighting design and scope of work has been created and was reviewed and approved by the Burrillville School Department. Coordination between the Burrillville School Department, the Town of Burrillville, and OER around the scope of work, Memorandum of Understanding between the parties, and the RFP took much longer than anticipated. As a result, this project was not completed in 2023 as originally planned and instead will be completed in the first half of 2024. Given the delay, PUD requested to move \$33,416 that was dedicated to this project in 2023 to the 2024 budget as a separate line item. 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. Given the occasional and potentially future increased, school athletics usage of the field OER was able to work with the Town and incorporate

Highlights of the 2023 DSM Program

the project into the Burrillville High School Lighting Project. Coordination between the Burrillville School Department, the Town of Burrillville, and OER around the scope of work, Memorandum of Understanding between the parties, and the RFP took much longer than anticipated. As a result, this project was not completed in 2023 as originally planned and instead will be completed in the first half of 2024. The project is estimated to save 34,500 kWh annually.

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 \$22,425.44 on administrative labor, supplies and mileage associated with the various DSM projects.

Energy Consultant-The District spent \$6,767.25 on consultation services provided by Optimal Energy. They have also assisted the District with its Year-End Reconciliation Report for 2023 and its' annual EIA-861 report on estimated energy savings.

Community Outreach, Marketing & Education

Community Outreach and Education- This year, community events presented some hurdles with numerous outdoor activities rescheduled or called off due to an unusually rainy summer and fall. Nevertheless, Pascoag staff remained actively engaged in various community events throughout 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.

Highlights of the 2023 DSM Program

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 subsequent rain date.

Staff tabled at the Pascoag Spring Splash event, which was held down the street from its's office, 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.

The Green Festival was held in September, with around 400 attendees. Attendance was a little less this year due to it being an incredibly hot and humid day. Information on the DSM program and the CleanHeatRI program was given out to over 275 attendees at the Pascoag Utility District booth. Additionally, 54 HVAC surveys were completed by PUD customers. Energy New England was able to sign up 9 customers for home energy assessments as well. Attendees visited booths that had information regarding home energy assessments, weatherization, renewable energy, electric vehicles, climate change and energy assistance offerings.

The Burrillville Redevelopment Agency held a Pascoag Fall Splash event and PUD staff tabled to provide information on its DSM program offerings and the CleanHeatRI program. Staff handed out information to over 200 attendees. Additionally, 37 HVAC surveys were completed by PUD customers.

The last Burrillville Aging Stronger Lunch and Learn event of the year was held in October. 395 Burrillville residents over the age of 55 attended the event. The District was able to provide energy saving tips, information on DSM programs and information on the CleanHeatRI program to over 300 attendees. 56 HVAC surveys were completed by PUD customers as well.

The District has spent \$13,748.97 on advertisements, fulfilment materials and labor associated with community outreach.

Jesse Smith Library Partnership- Pascoag Utility partnered with the Jesse Smith Library and Burrillville Recycling for our popular Earth Day Contest which encouraged students grades K -5 to create posters on the importance of recycling and energy conservation. The top twelve posters chosen were included in a 2024 calendar with recycling and conservation messages that are distributed at the PUD office.

Pascoag reached out to local businesses and organizations that participated in community events. This year Pascoag was able to secure sixteen advertisers, which totaled \$800 in revenue. We solicited advertisers at the community events we were attending so no funds were spent to attract advertisers.

Highlights of the 2023 DSM Program

We are going to keep pursuing advertisers as a way to offset costs of the calendar. The District has spent a total of \$2,494.12 on this project to date for prizes, materials, labor and calendars.

Energy Efficiency Management Continuing Education- In 2023, many conferences shifted to virtual platforms so the DSM Coordinator was able to engage in a number of virtual workshops and training sessions offered by American Public Power and the Association of Energy Professionals. Additionally, they participated in the virtual training program titled "Heat Pump Advocates for Decarbonization Technologies," conducted by Abode Energy Management, to prepare for the upcoming launch of the Clean Heat Rhode Island program. This comprehensive training spanned five weeks, featuring weekly two-hour sessions. While primarily focusing on air-source heat pumps, the program also covered topics such as building mechanical systems, fundamental building science, and various decarbonization technologies. The District has spent a total of \$1,045.00 on continuing education in 2023.

The DSM Program of Pascoag in 2023 has maintained a similar expense pace compared to the previous year's report. High inflation appears to continue influencing customers to delay significant purchases at the moment. Additionally, many customers held off implementing new HVAC systems as they awaited Clean Heat Rhode Island's program to launch this past fall. 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 \$217,238.87; with \$160,577.66 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 December program expenses for 2023 totaled \$147,596.07.

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 Expenses and Balance

	<u>Estimated</u>	<u>Actual</u>
Carryover from 2022	\$ 19,035	\$ 19,779
Estimated sales for 2023	\$ 162,042	\$ 160,578
RGGI Funds	\$ 35,700	\$ 35,700
RGGI Fund Carryover 2022	\$ -	\$ 1,182
Net 2023 budget	\$ 216,777	\$ 217,238

		2023 Approved		
		<u>Budget</u>	<u>Expenses</u>	<u>Balance</u>
<u>Residential Program</u>				
DR2301	Residential Weatherization Program	\$ 73,182	\$ 72,477.29	\$ 704.30
DR2302	Residential ENERGY STAR Offerings	\$ 5,000	\$ 5,013.00	\$ (13.00)
DR2303	HVAC & Water Heating Program	\$ 12,244	\$ 12,250.00	\$ (5.79)
DR2304	Enhanced Incentive HVAC Program	\$ 10,000	\$ -	\$ 10,000.00
DR2305	Committed for 2022 Programs	\$ 717	\$ 850.00	\$ (133.00)
	Net Residential	\$ 101,143	\$ 90,590.29	\$ 10,552.51
<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	\$ 22,425.44	\$ 574.56
DA2302	Energy Consultant	\$ 10,000	\$ 6,767.25	\$ 3,232.75
	Net Administrative	\$ 33,000	\$ 29,192.69	\$ 3,807.31
<u>Community Outreach, Marketing & Education</u>				
DC2301	Community Outreach and Education	\$ 14,000	\$ 13,748.97	\$ 251.03
DC2302	Jesse Smith Library Partnership	\$ 3,600	\$ 2,494.12	\$ 1,105.88
DC2303	Energy Efficiency Management continuing education	\$ 1,500	\$ 1,045.00	\$ 455.00
	Net Community Outreach, Marketing & Education	\$ 19,100	\$ 17,288.09	\$ 1,811.91
	Estimated DSM 2023 Budget/ Expenses/ Balance	\$ 218,703	\$ 147,596.07	\$ 71,106.73

Exhibit III: Savings Associated with DSM Projects

Residential Programs Totals	
Program Expenses	\$90,590
Annual kWh Electric Savings	39,905
Lifetime kWh Electric Savings	510,780
Summer Peak kW Savings	6.0
Participants	134
Lifetime kWh Electric Savings per Participant	3,812
Cost/Lifetime kWh Electric Savings	\$0.18
Lifetime Carbon Reductions (Short Tons)	520

DR2301: Residential Weatherization Program	
Program Expenses	\$72,477
Annual kWh Electric Savings	9,745
Lifetime kWh Electric Savings	92,969
Summer Peak kW Savings	1.97
Participants	63
Lifetime kWh Electric Savings per Participant	1476
Cost/Lifetime kWh Electric Savings	\$0.78

DR2302: Residential ENERGY STAR Offerings	
Program Expenses	\$5,013
Annual kWh Electric Savings	15,907
Lifetime kWh Electric Savings	177,836
Summer Peak kW Savings	2.59
Participants	49
Lifetime kWh Electric Savings per Participant	3,629
Cost/Lifetime kWh Electric Savings	\$0.03

DR2303: HVAC & Water Heating Program	
Program Expenses	\$12,250
Annual kWh Electric Savings	13,622
Lifetime kWh Electric Savings	229,013
Summer Peak kW Savings	1.36
Participants	20
Lifetime kWh Electric Savings per Participant	11,451
Cost/Lifetime kWh Electric Savings	\$0.05

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