



2020 Demand Side Management

Mid-Year Report Docket 4991

Pascoag Utility District
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Pascoag, RI 02859

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August 6, 2020

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

Re: Docket 4991

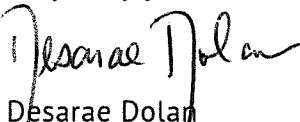
Dear Ms. Massaro,

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 2020. These submissions include a complete summary of the DSM Budget for 2020 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 2020 DSM Program

Residential Conservation Program:

Home Energy Audits with Incentives - A total of 15 home energy audits were performed by Energy New England from January-June. There have been 226 LED light bulbs and 23 Smart strips that were directly installed into homes that completed an energy audit. \$13,097 was paid for this program to date, funded by Regional Greenhouse Gas Initiative (2018-B). In addition, two commercial and industrial energy audits have been performed by RISE at no cost.

Due to the pandemic, the District has struggled with customers utilizing the remote home energy audits and weatherization incentive program, despite our best efforts to advertise these offerings. Energy New England began offering remote home energy audits in April. The District immediately began advertising by placing ads on Facebook, our online bill portal and with a community online news site. We also sent letters to all of our electric customers that were past due, to let them know about our energy audit program and the Energy Star rebates we offer. We have been using these methods for two months with little success. We believe the majority of program participation may have been a direct result of our outreach at community events and with customers coming into our office. Since we've been unable to attend community events and the office was closed to the public from March 16th to June 15th, we've been limited in our typical outreach efforts. The District's staff typically relies heavily on community events and in-office visits to promote the DSM program. Unfortunately, community events have been cancelled since March and in the foreseeable future. Customer traffic coming into the office has also slowed as many customers are opting for contactless options such as paying online or utilizing our office drop box for payments.

In July, the District petitioned the Public Utilities Commission to increase the weatherization and air sealing rebate percentage from 75% to 100% as well as raise the maximum rebate caps from \$800 for insulation and \$500 for air sealing to a combined total of \$3,000 per customer. If approved, we're hopeful that more of our customers will take advantage of the remote home energy audits and weatherization rebates during the second half of the year.

Residential Energy Star Offerings– The District processed 35 appliance rebates comprised of 1 refrigerator, 3 refrigerator buybacks, 10 clothes washers, 8 clothes dryers, 7 AC's, 2 printers and 1 each of air purifiers, televisions and monitors. The District issued a total of \$2,180 in rebates.

Highlights of the 2020 DSM Program

HVAC & Water Heating Program- 2 customers took advantage of the HVAC & Water Heating program in 2020 and the District issued \$925.00 in rebates.

Change a Light Program – The District purchased 100 lighting kits from Project Energy Savers to distribute to customers. The kits contain 2 LED lightbulbs, 1 LED nightlight and an energy guide to lighting.

Committed for 2019 Programs- The District processed 17 incentives from 2019 that qualified for rebates totaling \$2,342.00. The rebates were for 34 windows, 5 refrigerator buybacks, 3 air-source heat pumps, 2 oil boilers, and one each of ventilation fans, printers, ceiling lights and doors.

Industrial/ Commercial

Small Business Energy Star Offerings- The District processed one rebate for a refrigerator buyback and new purchase of a refrigerator in the amount of \$184.00.

Burrillville School Department- The District has worked with the School Department on several energy efficiency projects over the years. Burrillville High School would like to go forward with the LED lighting project scheduled for this year but may not be able to, due to budgetary issues. We are working with them to try to find a path forward.

Committed Funds-Lighting & EE Projects- Ashton Court was going to build on the success of its exterior lighting project from 2019 and complete an LED interior lighting project in all of its elderly affordable housing units in 2020. Due to COVID-19, they have put this project on hold and are exploring ways to complete it in a safe manner this Fall.

Potential 2020 Lighting & EE Projects-The District is currently working with St. Joseph's Church on an LED lighting project. This project is just unfolding so we do not have definitive data at this time.

LED Street Light Incentive- The DSM Program rebated Pascoag Utility District \$10,000 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 \$83,096 to \$73,096.

Highlights of the 2020 DSM Program

LED Street Light Incentive- The DSM Program rebated Pascoag Utility District \$10,000 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 \$83,096 to \$73,096.

Administrative

Administrative- The District spent \$8,499 on administrative labor, supplies and mileage associated with the various DSM projects.

Energy Consultant- The District spent \$4,388 on consultation services provided by Optimal Energy. We have been meeting virtually with Optimal Energy to discuss impacts on the DSM program due to COVID-19 and planning for 2021.

Program Research and Development- There is no activity to report.

Community Outreach, Marketing & Education

Funds for Follow-up to Successful Programs- The District has processed 7 rebates for 2 clothes washers, 1 dryer, 1 television, 1 computer, 1 LED light, 1 gas boiler and 1 air source heat pump from 2019 due to funds being depleted from the Committed for 2019 program. The total amount issued in rebates was \$832.00.

Outreach/Education- The District has spent \$4,718.00 on conservation promotional items, advertisements and billing inserts to promote the energy efficiency programs we offer.

Jesse Smith Library Partnership- the Jesse Smith Memorial Library in conjunction with the Burrillville 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 2021 calendar which also contained energy conservation and recycling tips. The contest was conducted partially by virtual means, due to the closure of schools in March. Parents submitted entries by email to the District. The calendars will be ordered later this fall. The District has spent a total of \$100.00 on this project to date for prizes.

Highlights of the 2020 DSM Program

Community Events- The District's community event participation has been drastically limited due to the pandemic. Prior to March, staff members were able to visit Burrillville High school to speak to an 11th grade math class about electric bills and the effects of conserving electricity on it. The District also had the opportunity to host a field trip for Steere Farm Elementary School's fourth grade. The children received a tour of the facility, learned about the role of the electric company in their community and worked on energy conservation posters while they were here. The District has spent \$235.00 on materials for Community Events.

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

Pascoag's 2020 DSM Program has had significant challenges due to the pandemic. In March 2020, all in-person home energy audits were suspended due to stay at home orders. In mid-April, Energy New England began offering "Remote" Home Energy Audits to customers. We increased advertising on social media, our website, and local media but customer uptake has been slow. In July, we petitioned the Public Utilities Commission to increase the weatherization and air sealing rebate percentage from 75% to 100% as well as raise the maximum rebate caps from \$800 for insulation and \$500 for air sealing to a combined total of \$3,000 per customer. If approved, we're hopeful this may encourage more customers to take advantage of the energy audits and weatherization rebate program during the second half of the year. Energy Star rebates have started to pick up again. We're hoping this steadily increases through the end of the year. We are in the process of redesigning our website to include more user-friendly remote options with our rebate forms and energy efficiency information. The total budget for 2020 was \$200,682.24; with \$110,262 estimated to be collected from customer billing, \$83,700 from RGGI Funds and the actual carry over funds from 2019 of \$6,720.24. The total expenses to date for 2020 were \$48,498.95.

Exhibit I: 2020 Approved Budget

Pascoag Utility District Demand Side Management Programs - 2020 Approved Budget

Actual carry over from 2019	\$ 6,720.24
Estimated sales for 2020	\$ 110,282
RGGI Funds	\$ 63,817
RGGI Fund Carryover 2019	\$ 20,083
Net 2020 budget	\$ 200,882.24

2020 Approved Budget

Residential Program

DR2001	Home Energy Audits with Weatherization Incentives	\$ 65,000
DR2002	Residential ENERGY STAR Offerings	\$ 7,315
DR2003	HVAC & Water Heating Program	\$ 7,000
DR2004	Change a Light Program	\$ 1,000
DR2005	Committed for 2019 Programs	\$ 2,353

Net Residential \$ 82,668

Industrial/Commercial

DI2001	Small Business ENERGY STAR Offerings	\$ 1,200
DI2002	Burrillville School Department	\$ 18,700
DI2003	Committed Funds- Lighting & EE Projects	\$ 22,764
DI2004	Potential 2020 Lighting & EE Projects	\$ 10,250
DI2005	LED Street Light Incentive	\$ 10,000

Net Industrial/Commercial \$ 62,914

Administrative

DA2001	Administrative	\$ 21,000
DA2002	Energy Consultant	\$ 10,000
DA2003	Program Research and Development	\$ 500

Net Administrative \$ 31,500

Community Outreach, Marketing & Education

DC2001	Funds for Follow-up to Successful Programs	\$ 1,000
DC2002	Outreach/Education	\$ 7,500
DC2003	Jesse Smith Library Partnership	\$ 3,600
DC2004	Community Events	\$ 9,000
DC2005	Energy Efficiency Management continuing education	\$ 2,500

Net Community Outreach, Marketing & Education \$ 23,600

Estimated DSM 2020 Budget/ Expenses/ Balance \$ 200,882.24

Exhibit II: 2020 Expenses and Balances

Pascoag Utility District
Demand Side Management Programs - 2020 Approved Budget

Actual carry over from 2019	\$ 6,720.24
Estimated sales for 2020	\$ 110,262
RGGI Funds	\$ 63,617
RGGI Fund Carryover 2019	\$ 20,083
Net 2020 budget	\$ 200,682.24

	2020 Approved Budget	Expenses through 6/30/20	Balance
<u>Residential Program</u>			
DR2001 Home Energy Audits with Weatherization Incentives	\$ 65,000	\$ 13,097	\$ 51,903
DR2002 Residential ENERGY STAR Offerings	\$ 7,315	\$ 2,180	\$ 5,135
DR2003 HVAC & Water Heating Program	\$ 7,000	\$ 925	\$ 6,075
DR2004 Change a Light Program	\$ 1,000	\$ 1,000	\$ -
DR2005 Committed for 2019 Programs	\$ 2,353	\$ 2,342	\$ 11
Net Residential	\$ 82,668	\$ 19,544	\$ 63,124
<u>Industrial/Commercial</u>			
DI2001 Small Business ENERGY STAR Offerings	\$ 1,200	\$ 184	\$ 1,016
DI2002 Burrillville School Department	\$ 18,700	\$ -	\$ 18,700
DI2003 Committed Funds - Lighting & EE Projects	\$ 22,784	\$ -	\$ 22,784
DI2004 Potential 2020 Lighting & EE Projects	\$ 10,250	\$ -	\$ 10,250
DI2005 LED Street Light Incentive	\$ 10,000	\$ 10,000	\$ -
Net Industrial/Commercial	\$ 62,914	\$ 10,184.00	\$ 52,730
<u>Administrative</u>			
DA2001 Administrative	\$ 21,000	\$ 8,499	\$ 12,501
DA2002 Energy Consultant	\$ 10,000	\$ 4,388	\$ 5,613
DA2003 Program Research and Development	\$ 500	\$ -	\$ 500
Net Administrative	\$ 31,500	\$ 12,886	\$ 18,614
<u>Community Outreach, Marketing & Education</u>			
DC2001 Funds for Follow-up to Successful Programs	\$ 1,000	\$ 832	\$ 168
DC2002 Outreach/Education	\$ 7,500	\$ 4,718	\$ 2,782
DC2003 Jesse Smith Library Partnership	\$ 3,600	\$ 100	\$ 3,500
DC2004 Community Events	\$ 9,000	\$ 235	\$ 8,765
DC2005 Energy Efficiency Management continuing education	\$ 2,500	\$ -	\$ 2,500
Net Community Outreach, Marketing & Education	\$ 23,600	\$ 5,884.93	\$ 17,715
Estimated DSM 2020 Budget/ Expenses/ Balance	\$ 200,682.24	\$ 48,498.95	\$ 152,183

Exhibit III: Savings Associated with DSM Projects

Residential Programs Totals	
Program Expenses	\$20,376
Annual kWh Electric Savings	19,420
Lifetime kWh Electric Savings	149,359
Summer Peak kW Savings	3.0
Participants	159
Lifetime kWh Electric Savings per Participant	939
Cost/Lifetime kWh Electric Savings	\$0.14
Lifetime Carbon Reductions (Short Tons)	169

DR 2001: Home Energy Audits with Weatherization Incentives	
Program Expenses	\$13,097
Annual kWh Electric Savings	9,810
Lifetime kWh Electric Savings	55,437
Summer Peak kW Savings	1.67
Participants	21
Lifetime kWh Electric Savings per Participant	2640
Cost/Lifetime kWh Electric Savings	\$0.24

DR 2002: Residential ENERGY STAR Offerings	
Program Expenses	\$2,180
Annual kWh Electric Savings	2,657
Lifetime kWh Electric Savings	25,381
Summer Peak kW Savings	0.53
Participants	12
Lifetime kWh Electric Savings per Participant	2,115
Cost/Lifetime kWh Electric Savings	\$0.09

DR 2003: HVAC & Water Heating Program	
Program Expenses	\$925
Annual kWh Electric Savings	601
Lifetime kWh Electric Savings	10,811
Summer Peak kW Savings	0.00
Participants	3
Lifetime kWh Electric Savings per Participant	3,604
Cost/Lifetime kWh Electric Savings	\$0.09

DR 2004: Change a Light Program	
Program Expenses	\$1,000
Annual kWh Electric Savings	2,345
Lifetime kWh Electric Savings	11,723
Summer Peak kW Savings	0.38
Participants	100
Lifetime kWh Electric Savings per Participant	117
Cost/Lifetime kWh Electric Savings	\$0.09

DR 2005: Committed for 2019 Programs	
Program Expenses	\$2,342
Annual kWh Electric Savings	3,177
Lifetime kWh Electric Savings	35,209
Summer Peak kW Savings	0.34
Participants	17
Lifetime kWh Electric Savings per Participant	2,071
Cost/Lifetime kWh Electric Savings	\$0.07

DC2001: Funds for Follow-up to Successful Programs	
Program Expenses	\$832
Annual kWh Electric Savings	831
Lifetime kWh Electric Savings	10,798
Summer Peak kW Savings	0.11
Participants	6
Lifetime kWh Electric Savings per Participant	1,800
Cost/Lifetime kWh Electric Savings	\$0.08

Commercial & Industrial Programs	
Program Expenses	\$10,184
Annual kWh Electric Savings	437
Lifetime kWh Electric Savings	3,684
Summer Peak kW Savings	0.06
Participants	1
Lifetime kWh Electric Savings per Participant	3,684
Cost/Lifetime kWh Electric Savings	\$2.76
Lifetime Carbon Reductions (Short Tons)	2

DI2001: Small Business ENERGY STAR Offerings	
Program Expenses	\$184
Annual kWh Electric Savings	437
Lifetime kWh Electric Savings	3,684
Summer Peak kW Savings	0.06
Participants	1
Lifetime kWh Electric Savings per Participant	3,684
Cost/Lifetime kWh Electric Savings	\$0.05