

Green Mountain Power Innovative Pilots

Data Collection And Reporting Plan

The following is Green Mountain Power's Data Collection and Reporting Plan for its Innovative Pilot projects.

Green Mountain Power's Temporary Limited Interim Regulation Plan¹ allows Green Mountain Power ("GMP") to offer "Innovative Pilot" programs involving products and services as outlined in Attachment 1 of the Regulation Plan. These Innovative Pilot programs are designed to serve customers, help GMP meet the Renewable Energy Standard's ("RES") required resource category as outlined in 30 V.S.A. 8005(a)(3) ("Tier III"), advance the goals of Vermont's Comprehensive Energy Plan to meet 90% of energy supply with renewable resources by 2050, reduce fossil fuel consumption, and reduce greenhouse gas emissions 75% below 1990 levels by 2050. In order to assess whether a Pilot should be advanced into a mature program, GMP will collect data and report to the Department of Public Service ("DPS" or "Department") and the Public Utility Commission ("Commission") as provided in this Data Collection and Reporting Plan ("Plan").

I. Commencement of Pilot

- A. As provided in Attachment 1, GMP will provide 15 days' advance notice of its intent to file a Pilot. The notice shall include a narrative explanation of the Innovative Pilot and explain how the Pilot is consistent with Tier III of the RES, how it advances the goals of Vermont's Comprehensive Energy Plan, the number of customers to whom it will be made available, how those eligible customers were selected, expected costs and revenues, why the proposal does not conflict with work performed by Efficiency Vermont, a certification that GMP has collaborated with Efficiency Vermont regarding the proposal in advance of the filing, and the frequency by which GMP shall provide status reports to the Commission and Department on the Innovative Pilot's progress.
- B. All Innovative Pilots shall be implemented consistently with terms set forth in GMP's Memorandum Detailing Changes to Innovative Pilot, dated December 7, 2016 and filed in Docket No. 8794.

II. Status Reports

- A. GMP shall file with the Commission, copying the Department, semi-annual reports of the status of the Pilot. The reports shall be submitted thirty days after each six-month interval. The reports shall provide the following information:
 - i. Narrative explanation of the Pilot and why it is important.
 - ii. Customer participation in the Pilot including the number of products or units, number of customers enrolled, and the distribution of the product by county/town.

¹ Green Mountain Power's Temporary Interim Regulation Plan was approved in Docket No. 17-3232-PET on November 29, 2017.

- iii. Financial information regarding the costs and revenues (equipment revenue, additional kWh margin, O&M maintenance, O&M service, depreciation, return on rate base, and net gain or loss).
- iv. Load control device saturation information including whether the product is controlled by GMP for peak shaving purposes, and if so, the number of units controlled, the control device, the response rate, and capacity available in kilowatt hours.
- v. Narrative explanation of how the Pilot is advancing the goals of Vermont's Comprehensive Energy Plan and Tier III of the RES.
- vi. Next steps.

III. Customer Satisfaction Measurement

In addition to regular customer contact, after the Pilot has been in operation for one year GMP shall measure participating customers' satisfaction with the Pilot. The survey should include an assessment of whether the customers' needs/goals were met by the product or service provided in the Pilot. GMP shall work with the Department on appropriate measurements for each Pilot.

IV. Final Report

- A. Sixty days after the end of the eighteen-month pilot, GMP shall file with the Commission, copying the Department, a final report on the Pilot. The report shall include the following information:
 - i. Narrative explanation of the Pilot and why it is important.
 - ii. Customer participation in the Pilot including the number of products or units, number of customers enrolled, and the distribution of the product by county/town.
 - iii. Financial information regarding the costs and revenues (equipment revenue, additional kWh margin, O&M maintenance, O&M service, depreciation, return on rate base, and net gain or loss).
 - iv. Load control device saturation information including whether the product is controlled by GMP for peak shaving purposes and if so, the number of units controlled, the control device, the response rate and capacity available in kilowatt hours.
 - v. Narrative explanation of how the Pilot advanced the goals of Vermont's Comprehensive Energy Plan and Tier III of the RES.
 - vi. Assessment of customer satisfaction.
 - vii. Lessons learned during the Pilot.
 - viii. Whether the Pilot will be advanced to a tariff-based offering, and if so, why.
 - ix. If the Pilot will not be advanced to a tariff-based offering, the reasons why not.



Date

Mrs. Judith Whitney, Clerk
VERMONT PUBLIC UTILITY COMMISSION
Peoples United Bank Building, 4th Floor
112 State Street
Montpelier, VT 05620-2701

Re: Innovative Pilot [**INSERT NAME OF PILOT**]
Final Report

Dear Mrs. Whitney:

Green Mountain Power (“GMP”) provides this Final Report (“Report”) pursuant to Attachment 1 of GMP’s Temporary Limited Interim Regulation Plan. This Report covers the period from the commencement of the Pilot on [**INSERT DATE**] to the completion of the Pilot on [**INSERT DATE**].

Explanation Of [INSERT NAME OF PILOT**] And Why It Is Important**

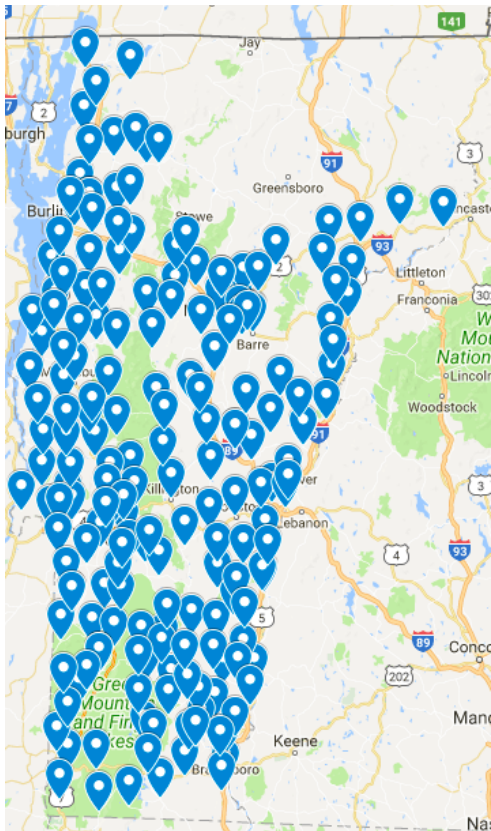
[**NARRATIVE EXPLANATION**]

Participation in Pilot

[**NARRATIVE EXPLANATION - include the number of products or units, number of customers enrolled and the distribution of the product by county/town**]

Below is a map illustrating the distribution of the GMP [**INSERT NAME OF PRODCUT**] in customer homes throughout our territory:

[**INSERT MAP (sample below)**]



Final Pilot Financials

[NARRATIVE EXPLANATION OF FINANCIALS AND INCLUDE FINANCIAL CHART – sample below]

PILOT NAME	CY__ Actuals
Cumulative Installs	
CY ____ Installs	
Equip Revenue	\$
Add'l kwh Margin	\$
O&M Maintenance	\$
O&M Service	\$
Depreciation	\$
Return on Rate Base	\$
Other	\$
Net Gain/Loss	\$

Load Control Device Saturation

[NARRATIVE EXPLANATION]

The graphic below provides an update of customer engagement in these programs:

[SAMPLE GRAPHIC BELOW]

GMP Controls Deployment – Currently Deployed/Deploying AS OF December 31, 2017

	Control Product	Device Controlled	Units Installed	Units Controlled	Response Rate	Capacity Available (kWh)		Add'l Under Contract
CURRENTLY DEPLOYED	2016 Powerwall 1.0	Battery Storage	20	20	85%	134	Difficulty with SolarEdge inverter in past. Currently working efficiently the majority of the time. No longer deploying PW1 in favor of the PW2.	
	Sonnen ECO	Battery Storage	10	10	90%	86	Batteries installed in McKnight Lane Mobile Home Replacement project.	
	Aquanta	Electric Resistance Water Heater	63	63	%	na	Currently available for all Rate 1 traditional water heaters in GMP territory.	36
	SunVerge	Battery Storage	1	1	0%	8	Installed test unit at Farm & Wilderness. Testing functional capabilities of system.	
	2017 Sensibo Sky	Cold Climate Heat Pump	173	115	88%	na	Currently available for all heat pumps in GMP territory, not just GMP program heat pumps.	315
	Powerwall 2.0	Battery Storage	90	90	93%	1125	Currently deploying.	245
	L2 EV Charger	In-home EV Charger	34	34	100%	na	Currently deploying.	40
	TOTALS		391	333		1353		636

The [INSERT NAME OF PILOT] Pilot Advances the Goals of the Vermont Comprehensive Energy Plan and Tier III of the Renewable Energy Standard

[NARRATIVE EXPLANATION OF LOAD CONTROL SATURATION]

Assessment of Customer Satisfaction

[NARRATIVE EXPLANATION OF RESULTS OF CUSTOMER SATISFACTION SURVEY INCLUDING ASSESSMENT OF WHETHER THE CUSTOMERS' NEEDS/GOALS WERE MET BY THE PILOT]

Lessons Learned

[NARRATIVE EXPLANATION OF LESSONS LEARNED]

The Pilot Will/Will Not Be Advanced To A Tariff-based Offering

[NARRATIVE EXPLANATION OF WHETHER PILOT WILL BE ADVANCED TO
TARIFF-BASED OFFERING AND WHY OR WHY NOT]

Conclusion

cc: Service List