

STATE OF VERMONT
PUBLIC UTILITY COMMISSION

Case No. 18-0974-TF

Tariff filing of Green Mountain Power Corporation requesting a 5.45% increase in its base rates effective with bills rendered January 1, 2019, to be fully offset by bill credits through September 30, 2019

PREFILED DIRECT TESTIMONY OF

BRIAN E. WINN

ON BEHALF OF THE

VERMONT DEPARTMENT OF PUBLIC SERVICE

July 30, 2018

Summary: Mr. Winn provides an overview of the Department of Public Service's (the "Department") recommendation to reduce Green Mountain Power's requested revenue requirement by approximately xxx million. Mr. Winn also discusses in detail the Department's recommendation regarding appropriate rate treatment for Green Mountain Power's proposed growth-related capital spending, introduces the testimony of the Department's witnesses, and briefly discusses innovative services.

Mr. Winn Sponsors the Following Exhibits:

Exhibit PSD-BEW-1: Professional Resume of Brian E. Winn

Exhibit PSD-BEW-2: GMP Standard and Poor's Presentation

Exhibit PSD-BEW-3: Near-term Rate Driver Analysis

1 **Q1. Please state your name, occupation, and business address.**

2 A1. My name is Brian E. Winn. I am the Director of Finance & Economics at the Vermont
3 Department of Public Service (the “Department” or “PSD”). My responsibilities include
4 direction of Utility Finance and Economics group activities for the Department and the
5 State of Vermont. My business address is 112 State Street, Montpelier, Vermont 05620.
6

7 **Q2. Please describe your educational background and experience.**

8 A2. I have a B.A. in Political Science from Purdue University, and a Master’s of Science in
9 Management from The Georgia Institute of Technology. I have worked at the
10 Department since July, 2016. Prior to joining the Department, I was employed with
11 Edison International or Southern California Edison, its regulated utility subsidiary, for
12 over twenty years. During my tenure there I held various positions including: Director of
13 Financial Planning and Analysis; Director of Business Analytics; Director of Performance
14 Management and Measurement; Director of Nuclear Financial Management; and Director
15 of SCE Budgets and Planning. Prior to Edison, I was a Utility Finance Consultant for
16 Energy Management Associates. My professional resume is included as Exhibit PSD-
17 BEW-1.
18

19 **Q3. Have you ever testified before the Vermont Public Service Board?**

20 A3. Yes, I have testified in Docket Nos. 8698/8710, 8827, 8871, 8881, 17-1238-INV, 17-
21 3112-PET, 17-5003-PET, 18-0409TF, and 18-0491-PET
22

1 **Q4. What is the purpose of your testimony?**

2 A4. In my testimony I discuss the organization of the Department's case; summarize the
3 Department's recommendations; discuss in detail the Department's recommended rate
4 treatment for various Green Mountain Power capital projects, programs the proposed
5 capital spending; recommend improvements to GMP processes related to analysis of
6 capital projects and power procurement; discuss the Department's recommendations for
7 power supply costs and short-term incentives and; introduce the Department's witnesses.

8
9 **Q5. What has GMP requested in this proceeding?**

10 A5. The filing with the Vermont Public Utility Commission (the "Commission") consists of a
11 base rate increase of 5.45 percent which is offset by a onetime bill credit associated with
12 returning excess Accumulated Deferred Income taxes as a result of the recent federal tax
13 legislation. The net result is a decrease of 0.5 percent for rates starting January 1, 2019.

14
15 **Q6. What is the Department's recommendation regarding the Company's requested rate
16 increase?**

17 A6. GMP filed a cost-of-service ("COS") that reflects a \$25.112 million revenue deficiency.
18 The Department's overall conclusion is that there is a deficiency of \$xx million.
19 Therefore, the Company's request of 5.45 percent is reduced to xx percent. The table
20 below summarizes the Department's proposed adjustments: TOTAL ABOUT -1% +/-

**Summary of the Department's Adjustments to GMP
COS Cost of Service**

1		<u>\$1,000</u>
2		
3		
4	Revenue Deficiency per GMP COS	\$25,112
5		
6	PSD Adjustments to COS	
7	Purchased Power, net	(\$0)
8	Depreciation & Amortization	(0)
9	Taxes - Federal, State & Gross Receipts	(0)
10	Net Gain from Assets Sold	(0)
11	Return on Utility Rate Base	(\$0)
12	Merger Savings	(\$0)
13		
14		<u> </u>
15	Total PSD Proposed Deficiency	<u> </u> \$0 <u> </u> 16

17

18 **Q7. Please briefly summarize the reasons for the Department's proposed adjustments to**
19 **GMPs Cost of Service?**

20 A7. The Department is proposing to remove the Tesla Powerwalls, Heat Pump Water Heaters
21 and \$XX million of T&D individual and blanket projects and "hold to sell" RECs from
22 Rate Base totaling \$XXX million. Additionally, the Department is recommending that
23 \$XXX be removed from Purchased Power Costs. Finally, the Department is proposing to
24 eliminate ratepayer funding of the short-term incentive plan.

25

26 **Q8. Does the Department have any other recommendations for the PUC?**

27 A8. Yes. The Department's support for the Storage/Solar projects is contingent on GMP
28 providing ratepayers financial assurance that the projects will deliver the asserted
29 economic benefits and that GMP indemnify the ratepayers for any financial consequences

1 should the proposed ratemaking or accounting be disallowed by the IRS. The
2 Department also recommends that the Commission require GMP to: consider all
3 reasonable alternatives to proposed capital projects and solicit Requests for Proposals
4 when multiple vendors are available; maintain adequate contemporaneous information on
5 the capital project planning and project approval processes; improve its methods for
6 prioritizing reliability projects; and follow a more rigorous process for procuring energy
7 and capacity resources including soliciting RFPs.

8 9 **Background and Overview**

10 **Q9. Can you please describe the Department's investigation into the proposed change in**
11 **rates?**

12 A9. Yes. After the petition was filed, the Department organized a team composed of internal
13 resources and experts from GDS Associates, Inc. and J. Kennedy and Associates. The
14 team conducted a thorough review of the petition and supporting documentation, with a
15 focus on capital spending, power supply, cost of capital, and regulatory accounting. The
16 Department issued two rounds of discovery to the Company, engaged in a series of
17 meetings and conference calls with key GMP staff to exchange information, and
18 reviewed relevant Commission precedent.

19
20 **Q10. How is the Department's testimony organized?**

21 A10. The Department is submitting testimony from XX witnesses. In my testimony I provide
22 a high-level summary of the entire case including: the Department's recommendations; a

1 discussion of capital spending; and summaries of the recommendations of the other
2 witnesses. Ed McNamara, the Department's Planning Director provides a summary of
3 the power supply portion of the case. including: the GMP process for procuring energy
4 and capacity; recommendations regarding the JV Microgrid and the Tesla Powerwall
5 projects; the use of forecasted sales in determining rates and; the amount of Renewable
6 Energy Credits in rate base. Carol Flint, the Director of the Department's Consumer
7 Affairs and Public Information ("CAPI") Division, provides an assessment of GMP's
8 customer service. The remaining witnesses are outside consultants that provide more
9 detailed testimony in the areas covered by Mr. McNamara and myself.

10
11 **Q11. Please provide some background on the regulatory landscape that is relevant**
12 **context for this case.**

13 A11. I will describe the regulatory landscape as it pertains to the capital spending, O&M and
14 cost of capital portions of the rate case. In his testimony, Mr. McNamara provides a
15 summary of the regulatory landscape relevant to the power supply portion of the case.
16 GMP rates are set the way that most regulated utilities in the United States are, via a
17 proceeding to determine the appropriate cost-of-service, which in broad terms include
18 O&M expenses, purchased power costs and return on rate base.

19
20 A substantial portion of GMP's O&M revenue requirement has been pre-determined
21 under a formula outlined in a Memorandum of Understanding ("MOU") adopted by the
22 Commission in 2012 in Docket 7770, which concerned the merger of GMP and CVPS.

1 The Docket 7770 MOU defines this formula as “Base O&M costs,” but it is generally
2 referred to as the “O&M Platform.” The revenue requirement for this portion of GMP’s
3 rates will be determined under this MOU through 2022.

4
5 GMP has been operating under a temporary alternative regulation plan that took effect in
6 January of 2018. The temporary plan proposal includes mechanisms for purchased power
7 storms and exogenous events cost recovery, allows GMP flexibility to pilot innovative
8 products and services and is in effect for 2 years, through the end of 2019. Since a large
9 portion of Purchased Power costs are long-term contracts that have been reviewed several
10 times, and because O&M costs are largely pre-determined under the platform, the
11 Department review of the current case will largely focus on the impacts of capital
12 spending and investments in subsidiaries.

13
14 GMP filed a traditional rate case (Docket 17-3112-INV) in 2017 for rates in effect in
15 2018. During that case, the information available from the Company was not sufficient
16 to allow the Department to assess the reasonableness of the proposed level of capital
17 spending. In particular, the Company was unable to produce complete financial analyses
18 and other documentation for approximately 69.7 percent of the capital projects reviewed
19 by the Department. Having such information available for review is essential for the
20 Department to fulfill its verification role in the rate case review process. As part of a
21 settlement in that case the company agreed to maintain contemporaneous documentation
22 of it’s capital spending decisions and to a set of standards describing the required analysis

1 of capital projects. The settlement also established a limit on the amount of capital
2 allowed in rate base and provided GMP with 5.37% increase in authorized revenues
3 which resulted in a 5.02% rate increase.
4

5 In June the company filed a proposal for a multi-year alternative regulation plan (Docket
6 18-1633-PET) that would operate through 2022. The plan would be bounded by the
7 current rate case and a traditional rate case to be filed for the 2023 rate year. At a high
8 level, the plan consists of a capital spending cap, earnings sharing, the O&M platform,
9 and a purchased power adjustor. There are numerous issues to work out and the ultimate
10 composition of the plan remains uncertain and subject to PUC approval. However, some
11 of the Departments recommendations in this case are predicated on the existence of a
12 multi-year rate plan.
13

14 Finally, the rates that will go into effect in January 2019 will also incorporate the costs
15 related to the Storm Event (Filing number) and the purchase power costs. Assuming that
16 the PUC approves the case as filed, overall rates after all adjustments will increase by
17 **XX%. Need to discuss with GMP what is on the table for 1/1/2019**
18

19 **Q12. Can you provide any perspective on the main cost drivers contributing to the need**
20 **for the rate increase proposed in this case?**

21 A12. First, I would like to provide some perspective on complexities involved when trying to
22 distill the primary reasons for changes from a large list of numbers into a few key drivers.

1 The summary cost of service calculation is composed of over 25 cost items. Each of
2 those items represents the summation of a large subset of cost items and so on. When the
3 overall percentage change for a long list of numbers is relatively small, in a mathematical
4 sense, there are numerous ways to combine the numbers to a handful of primary drivers.
5 The same list of numbers is therefore subject to a wide range of interpretations of the
6 primary drivers of the overall change. That is true for the GMP numbers in this case.

7
8 The Department has chosen to apply the following logic when summarizing the primary
9 drivers. We have categorized cost of service by function, ie Power Costs, Transmission
10 Costs, O&M, and made adjustments that account for the regulatory mechanisms used to
11 recover the costs. Breaking the costs using this logic results in these major categories.

12
Summary of GMP Adjustments to Cost of Service - As Filed
In \$1,000s

	<u>Test Period</u>	<u>Rate Period</u>	<u>Dollar Change</u>
Purchased Power and Production	\$217,808	\$239,191	\$21,384
Net Transmission	\$19,408	\$32,196	\$12,788
O&M Platform, Other O&M and Savings	\$66,517	\$79,066	\$12,550
Capital Related Costs	\$0	\$0	\$0
Depreciation & Amortization & Other	\$43,646	\$25,616	(\$18,029)
Taxes - Federal, State & Municipal	\$51,322	\$39,093	(\$12,229)
Return on Utility Rate Base	\$70,121	\$82,618	\$12,497
Less Affiliate & Other Operating Revenue	(\$37,640)	(\$16,201)	\$21,439
Gross Revenue & Fuel Gross Receipts Taxes	<u>\$4,565</u>	<u>\$4,588</u>	<u>\$23</u>
Cost to Ultimate Consumers	\$435,746	\$486,168	\$50,422

13
14

1 Most of the categories are straight forward and align well with the COS summary filed by
2 GMP. Transmission O&M is shown net of the Equity in Earnings from Affiliates from
3 VELCO to reflect the actual cost of transmission to the rate payer. I have provided a
4 more detailed description of the Cost of Service line items included in each category in
5 Exhibit DPS-BEW-3.

6
7 **Q13. Does the analysis of the changes between the test period and proposed rate period**
8 **reveal the main drivers of GMP rate increases?**

9 A13. Not in this this case. The Department recommends that the PUC take a longer
10 perspective when trying to determine the main drivers for the increase in GMP rates. In
11 this case, both the test period and the rate period numbers represent only nine month
12 periods and contain large one-time items that distort the picture. For example, in the test
13 period the Affiliates & Other Operating Revenue line contains a large one-time benefit of
14 (\$XXXX million) related to a Solar JV project. In the rate period Depreciation &
15 Amortization & Other line item there are large one-time benefits associated with the
16 Storage/Solar JV projects, totaling (\$XXX million), which reduce that line item
17 significantly. The rate period also contains a one-time benefit of \$8.x million from the
18 VELCO sale of Utopus. Finally, there is a significant difference in the federal tax rate for
19 the test period and the rate period. All these complications make a straight comparison
20 almost meaningless. Never-the-less, to comply with the request from the PUC, an
21 analysis of rate drivers that attempts to adjust for these one-time items can be found in
22 Exhibit DPS-BEW-3.

1
2
3
4
5
6
7
8
9
10
11
12
13
14

Q14. What does the Department’s analysis of the longer rate trends show are the main drivers of GMP rate increases?

A14. We performed an analysis of the rate trends for the period 2013 through 2018 grouping the costs in the same manner as used above. The results are presented in the table below:

Comparison of Changes to GMP Cost of Service - 2013 Recorded to 2018 Settlement.
In \$1,000s

	<u>2013 Test Year Actual</u>	<u>2018 Settlement</u>	<u>Dollar Change</u>	<u>Percent Change*</u>
Purchased Power and Production	\$322,603	\$289,154	(\$33,449)	-10.37%
Net Transmission	\$31,676	\$28,878	(\$2,798)	-8.83%
O&M Platform, Other O&M and Savings	\$117,541	\$104,571	(\$12,970)	-11.03%
Capital Related Costs				
Depreciation & Amortization & Other	\$45,611	\$53,270	\$7,659	16.79%
Taxes - Federal, State & Municipal	\$46,809	\$67,487	\$20,678	44.18%
Return on Utility Rate Base	\$66,673	\$98,535	\$31,862	47.79%
Less Affiliate & Other Operating Revenue	(\$33,282)	(\$21,583)	\$11,699	-35.15%
Gross Revenue & Fuel Gross Receipts Taxes	<u>\$6,094</u>	<u>\$6,266</u>	<u>\$172</u>	<u>2.82%</u>
Cost to Ultimate Consumers	\$603,724	\$626,580	\$22,854	3.79%

The results are clear and easy to interpret. Over the period, Purchased Power Costs, over which GMP has some limited control, have declined by \$33.4 million. GMP has made progress in reducing O&M costs which have declined by almost \$13 million. Net Transmission costs have remained relatively stable with a \$2.8 million decline. However, these cost reductions, which total \$49.2 million, have been more than offset by a \$60.2 million increase in capital and investment related costs, over which GMP has significant control. Were it not for that increase in capital spending, GMP rates may well have been

1 over 9% lower by 2018. Given these trends the Department believes its recent focus on
2 the level of GMP capital spending is well founded.
3

4 **Proposed Capital Spending & Investments**

5 **Q15. Why is the level of capital spending and investments in subsidiaries so important in**
6 **the GMP rate case?**

7 A15. GMP has experienced significant growth in capital investment, especially during the
8 years following its merger with CVPS. Capital spending and, in GMP's case, investment
9 in subsidiaries are the primary components of rate base. GMP rate base grew by 22.7 %
10 from 2014 to 2017 and GMP projects that its rate base will grow from \$1.165 billion in
11 2014 to \$1.564 billion in 2019, which represents a 34.1% increase in less than 5 years.

12 The table below shows GMP's actual rate base from 2014 to 2017 and the projected rate
13 base for 2019.

GMP TOTAL RATEBASE INVESTMENT - 2014 to 2019 (\$1,000)

<u>2014¹</u>	<u>2015²</u>	<u>2016³</u>	<u>2017⁴</u>	<u>2019⁴</u>
\$1,165,784	\$1,209,349	\$1,264,195	\$1,430,213	\$1,563,786

¹8389 2014.11.14 GMP ESAM Filing.pdf, pg 8, Green Mountain Power - 2014 Earnings Sharing Adjustor,
filed with the PUC on November 14, 2014. 13 month average as of September 2014.

²GMP FY2015 ESAM.pdf, pg 4, Green Mountain Power - 2015 Earnings Sharing Adjustor,
filed with the PUC on November 20, 2015. 13 month average as of September 2015.

³GMP FY 2016 ESAM Filing, pg 4, Green Mountain Power - 2016 Earnings Sharing Adjustor,
filed with the PUC on November 29, 2016. 13 month average as of September 2016.

⁴Case No. 18-0974-TF Schedules 10 month average as of September.

1
2 In the Company's most recent presentation to Standard & Poor's from November of
3 2017, which is attached as Exhibit PSD-BEW-2, the Company forecasted capital
4 spending and investments in subsidiaries of \$534 million from 2018 through 2021. In
5 that same presentation, GMP forecasted retail revenues to grow by 20.46% from 2017 to
6 2021. Finally, the GMP Long-Term Executive Compensation Plan (Attachment
7 GMP.DPS1.Q20.c.pdf) sets explicit targets for growth in "Investments Driving Customer
8 Value" defined in the plan documents as "total utility plant, net" plus "investment in
9 associated companies," both of which are primary components of rate base. The targets
10 grow from \$1.73 billion for the period ending in 2017 to \$2.086 billion for the period
11 ending in 2020. That amounts to 20.6% growth in three years.

12
13 GMP is clearly planning to continue to significantly grow rate base. We know from the
14 analysis provided earlier in my testimony that growth in rate base is the single most
15 important driver of GMP rate increases. Therein lies the need for the Department to pay
16 particular attention to the level of capital spending.

17
18 **Q16. How much capital spending and investment in subsidiaries has GMP proposed in**
19 **this case?**

20 A16. The Company has requested recovery for capital additions and investment in subsidiaries
21 of \$xx for 2018 and \$xx for 2019. The proposed capital spending and investments in
22 subsidiaries will increase the base rate revenue requirement (excluding the impact of the

1 lower tax rates and one-time credits) by approximately \$14 million from the test year
2 period.

3
4 **Q17. What is the Department's assessment regarding the level of capital investment and**
5 **capital projects of the Company?**

6 A17. There does not seem to be a clear operational reason for the level of rate base growth
7 considering that customer growth is very low, load is stagnant, and sales are declining.
8 Testimony from our expert witnesses, discussed in detail later, confirm this. In fact, in
9 this case, GMP has proposed some investments, such as the Storage/Solar JV projects,
10 that have no clearly established operational need. Instead the company has sought to
11 justify the expenditures on primarily economic grounds.

12
13 **Q18. Has the quality of GMP documentation and evaluation of capital spending in this**
14 **proceeding improved over what was provided in the last case?**

15 A18. In some area yes and in others no. GMP has adopted the agreed upon template for capital
16 projects and provided more detail on blanket projects over \$250,00. Kevin Mara of GDS
17 Associates conducted a review of GMP's capital spending proposals and identified the
18 following weaknesses: cost estimate errors; failure to use an industry standard method to
19 value and prioritize reliability projects; insufficient data to justify capital spending
20 proposals; unnecessary capital projects and over use of blanket projects. Additionally,
21 GMP did not evaluate, or solicit requests for proposals for, viable alternatives to the
22 Storage/Solar JV or Tesla Powerwall projects which is specifically required in the MOU.

1 Mr. Mara's findings are consistent with the findings of the Department expert witnesses
2 in the GMP prior rate case – Docket 17-3112-INV. Witnesses from SAGE Consulting
3 and Larkin & Associates in GMP's insufficient documentation, overuse of blanket
4 projects and little evident that GMP considered viable alternatives.

5
6 With respect to GMP's general obligations for creating and retaining documentation, the
7 Commission has held, on more than one occasion that "utilities have an obligation to
8 document their decisions that affect ratepayers, so that those decisions can later be
9 reviewed by regulatory authorities."¹ Due to the weaknesses with the content of the
10 documentation provided by GMP through discovery, and a pattern of not fully evaluating
11 alternative investments, the Department cannot be sure that GMP has proposed an
12 appropriate level of capital spending.

13
14 **Q19. Do you support the proposed adjustment to Transmission, Distribution and General**
15 **Plant rate base discussed in the testimony of Kevin Mara of GDS Associates?**

16 A19. Yes. I am recommending that the PUC adopt the adjustments to T&D capital spending
17 included in the testimony of Kevin J. Mara, of GDS Associates INC., which total
18 \$XXXXXX million. Mr. Mara's testimony includes a detailed by project discussion of the
19 rationale for excluding this amount.

20

¹ See *Tariff filing of Citizens Communications Company*, Docket No 6596, Order of 7/15/02, at 22-23 (citing Docket No. 5132, Order of 5/15/87 at 97)).

1 **Q20. Please explain the Departments recommendation that \$25.7 million of blanket**
2 **projects excluded from rate base.**

3 A20. In his testimony Mr. Mara recommends that \$42.5 million of the \$49.4 million of
4 proposed blanket capital projects be excluded from rate base. There are several reasons for
5 this recommendation including; the projects do not meet the known and measurable
6 standard; and including the projects in rates eliminates the incentive for GMP to be
7 efficient in design and construction. Mr. Mara also raised issues with the methods of
8 estimating each of the different categories of blanket projects. The Department has raised
9 concerns with GMP's use of blanket projects in prior cases and is also alarmed by the
10 large increase in the use of blanket projects over the past few years. However, the
11 Department is reluctant to recommend completely removing the blanket projects from
12 rates. There are several reasons for this. First, while the Department knows of no
13 circumstance where the PUC has specifically addressed the appropriateness of blanket
14 projects, they are long standing practice. Secondly, the Department is factoring in the
15 likelihood that this case may become the basis for a multi-year rate plan. In that event, it
16 would not be appropriate to exclude essentially all blanket capital costs until the next
17 traditional rate case.

18
19 Given that the Department remains very concerned that the blanket capital project
20 categories are being overused, we asked Mr Mara to provide us with an analysis of the
21 appropriate amount to include in rates for each of the blanket project categories. The

1 Department has reviewed his analysis and recommends the PUC adopt the resulting
2 adjustments totaling \$25.7 million.

3
4 **Q21. Please summarize the rationale for excluding \$xxx million Renewable Energy
5 Credits from rate base.**

6 A21. Certain renewable energy credits are created, with some regulatory lag, simply from the
7 operation of GMP generation assets or through purchased power contracts. In most cases
8 GMP has imputed a value for these credits and they only held until they are sold. Terry
9 Myers of GDS Associates, Inc. raises a concern regarding how GMP ... NEED TO
10 SEE ED AND TERRY'S TESTIMONY The Department is therefore recommending that
11 \$XXX of these credits be removed from rate base.

12
13 **Q22. Please explain the Departments recommendation that the Heat Pump Water Heater
14 products be excluded from rate base.**

15 A22. First it is useful to provide some background. The Department supports the Company's
16 efforts to find innovative solutions to serve its customers' needs, however anytime a
17 monopoly public utility offers commercially available competitive products and services,
18 an issue arises about the utility's impact on the competitive market. For instance, in this
19 case, GMP has included the costs associated with the heat pump water heater in rate base.
20 The Department has developed a list of conditions that should be met before it will
21 support including generally available consumer products in rate base. These
22 requirements are: that the Company must have the ability to control the usage of those

1 products for the benefit of all ratepayers; benefits of the program must exceed the costs to
2 non-participating ratepayers; any bad debt expense should be borne by the program or
3 shareholders; and that GMP must open its billing system to companies offering similar
4 competing products. The Department and GMP have discussed these conditions
5 throughout the pilot review process, and it was addressed in the resolution of Docket
6 8794, in which GMP sought to tariff its heat pump and heat pump water heater pilots.

7
8 The ability for GMP to exercise control of these products for the benefit of all ratepayers
9 was generally not implemented for Heat Pump Water heater products offered in 2016 and
10 part of 2017. The Company has stated that beginning in 2018, such control will be a
11 standard component of innovative products and services included in rate base. It has
12 become apparent since that controls for these products are not generally available.
13 Additionally, it is not clear that the heat pump water heater's operating characteristics
14 will allow them to be efficiently controlled to create benefits for non-participating
15 customers. Until GMP has implemented the ability to control these devices for the
16 benefit of all ratepayers, the Department recommends excluding them from rate base to
17 remedy the competitive advantage created by the regulated rate of return on the
18 investment. The Department has recommended that the revenues and costs associated
19 with these devices, including depreciation, flow through other operating revenue.

20
21 **Q23. Please explain the Departments recommendation that the Tesla Powerwall products**
22 **be excluded from rate base.**

1 A23. There are several significant concerns. The first is that the overall size of the program is
2 \$15 million. This is a significant portion of GMP's proposed 2019 capital budget of \$85
3 million and therefore does not fit the definition of a pilot program. The Department
4 believes that such a sizable investment should be offered under a tariff so that the costs
5 and benefits can be examined more closely than what is required for the innovative
6 product program. Christopher Dawson of GDS Associates reviewed the avoided cost
7 models used by GMP to justify both the Tesla Powerwall program and the Storage/Solar
8 JV projects and has concluded that; the resulting energy prices are optimistic beyond five
9 years; there is no basis for capacity prices increases included in the model; REC price
10 assumptions are unproven and unrealistic; the assumed Transmission price increases are
11 not sustainable. He also concluded that GMP failed to perform any sensitivity analysis
12 around the market price projections. His conclusions raise doubts about the analysis
13 showing that the program will provide economic benefits. The value of the projects is
14 highly dependent on factors such as market price, the success in timing of peaks and
15 other assumptions. NRED EDS TESTIMONY XXXX has raised concerns about whether
16 the program is covering it's costs and whether there are benefits to non-participating
17 customers. Furthermore, GMP did not explore alternatives to storage such as Demand
18 Response. Finally, GMP did not provide any support indicating that it explored
19 alternative vendors and did not solicit RFPs for this program. The Department is open to
20 changing it's position should GMP be able to demonstrate the program meet's its
21 requirements for including commercially available consumer products in rate base.

22

Short-term Incentive Plan

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

Q24. Has GMP included Short Term Incentive Pay (STIP) in the filing?

A24. Yes. GMP includes approximately 50% of the Short Term Incentive Plan costs in the Base O&M platform calculation adopted in [redacted] and modified in Docket 8190.

Q25. Do you have concerns about including GMP's STIP in rates?

A25. Yes. While certain goals that are included in the plan clearly provide benefits for rate payers, the actual operation of the plan over the last several years indicates the plan is weighted primarily toward benefitting shareholders and, that there is no clear way to assign a value to the benefits for ratepayers. Ratepayers should not be responsible for any of the costs. To clear, I do not take issue with the existence of the plan or the content of the goals. The GMP Short Term Incentive Plan is consistent with plans offered by other regulated utilities.

Q26. Can you briefly explain how the Short-Term Incentive Plan works?

A26. Yes. During discovery GMP provided the Short-Term Incentive Plan documents for 2016, 2017 and 2018 in Attachment GMP.DPS1.Q18.a.pdf. The plan consists primarily of two sets of goals. The first set of goals, which per the plan documents account for 60% of the payout, are derived from GMP's Service Quality & Reliability Performance, Monitoring and & Reporting Plan. These goals are clearly established to benefit ratepayers and there is a clearly defined scoring matrix for these goals. The second set of goals, which account for 40% of the payout are individual goals that, according to GMP

1 are “developed annually by identifying the key strategic, customer-focused goals for the
 2 fiscal year and allocating relative weight to each participant based on responsibility and
 3 accountability.” (Discovery response GMP.DPS1.A18.) A close examination of the
 4 metrics for these goals reveals that they clearly provide benefit to the shareholders and, in
 5 some cases, to rate payers and shareholders. The plan establishes stretch targets for these
 6 goals but is not specific about how these goals are weighted against each other. Finally,
 7 the plan requires that, before any payout is made, the company must meet 90% of its
 8 ROE target and achieve or exceed 13 of the 16 Service Quality Metrics – the first set of
 9 goals. The following table from the plan documents summarized the operation of the
 10 plan.

Short-Term Incentive Compensation Measures

Performance Measure	Threshold	Target	Stretch
Actual ROE as percentage of allowed ROE	90%		
Achieve or exceed service quality/reliability measures	Achieve or exceed 13 of 16 measures	Achieve all 16 measures	Achieve all 16 measures and exceed at least 13 of 16 measures
Individual Performance Goals – metrics determined individually	Individualized	Individualized	Individualized

11
 12
 13 **Q27. Can you explain how the STIP plan is weighted primarily towards shareholders’**
 14 **benefit?**

15 A27. There are several reasons: while the first set of goals are customer focused, they have not
 16 had impact on the payouts from the plan. The company has exceeded these goals in each
 17 of the last few years, they have not benchmarked their performance against other utilities

1 and the targets have not been adjusted in several years. In short, these goals are not
2 challenging enough. The fact that the Service Quality Metrics are almost certain to be
3 met makes it unlikely that the Service Quality Metrics will impact the payout. For all
4 practical purposes, if the earnings target is made, 60% of the incentive will be paid. It is
5 clearly within management's prerogative to determine how challenging to make the
6 Service Quality targets for their executives. Ratepayers should not cover the costs of this
7 portion of the STIP plan unless the goals are likely to impact the payout.

8
9 The second set of goals, accounting for 40% of the payout, are grouped in the following
10 categories: Customer Focus; Financial Strength; Regulatory proceedings; Innovation; and
11 Deep and Positive Stakeholder Relationships. An examination of the 2018 metrics
12 included in each of these categories (Attachment GMP.DPS1.Q18.b-e 2018.xls) reveals
13 that: many of target metrics will increase GMP earnings; they include metrics that are
14 subjective and difficult to quantify; some are image building, lobbying and charitable
15 contributions and; there is no indication of how they are weighted relative to each other.
16 Even for categories that one would expect to provide benefits for ratepayers seem to be
17 weighted towards shareholders. Here are some examples. The Customer Focus goal
18 includes several metrics that relate to advancing the JV Microgrid Projects. As indicated
19 in later in my testimony, the benefits to shareholders are clear and the benefits to
20 ratepayers are questionable. The Innovation goal includes metrics for installing new
21 controllable devices, which again have clear benefits for shareholders (rate base earnings)
22 but the benefits for ratepayers are not clearly established, as illustrated by the

1 Departments recommendation to exclude the Tesla Powerwalls from rates. The Deep and
2 Positive Stakeholder Relationships goal has metrics that seem aimed at influencing public
3 opinion, improving GMPs image or are charitable in nature. These types of expenditures
4 would not normally be directly allowed in rates. Finally, the goals in this portion of the
5 plan overlap with the goals in GMP's Long-term Incentive Plan. Those goals, which can
6 be seen in Attachment GMP.DPS1.Q20.c.pdf, are primarily focused on growing earnings
7 and rate base. Because of the lack of clarity as to the weight given the individual
8 performance goals in this category, and that the preponderance of goals that clearly
9 benefit shareholders, it is not possible to determine that these goals clearly benefit
10 ratepayers.

11
12 Finally, under no circumstances will the plan pay out if the earnings (ROE) target is
13 missed. That is true even if the company achieves it's stretch targets for the Service
14 Quality Metrics or any other goal that could benefit ratepayers.

15
16 **Q28. Have you recommended an adjustment to rates?**

17 A28. Not at this time. Given that GMP includes approximately 50% of the Short Term
18 Incentive Plan costs in the Base O&M platform calculation adopted in _____ and
19 modified in Docket 8190. **DAN TO EXPAND**

20
21 **Power Supply**

1 **Q29. Please summarize the Department's testimony regarding GMP's Power Supply**
2 **expenses.**

3 A29. Edward McNamara, Director of Energy Policy for the Vermont Department of Public
4 Service. He discusses the applicable statutory and regulatory framework through which
5 GMP is guided in making its power supply decisions. Mr. McNamara also provides an
6 overview of GMP's power supply costs. He proposes downward adjustments to net
7 power supply costs totaling \$xxxxxx.

8
9 Christopher C. Dawson of GDS Associates Inc. conducted a review GMP's power supply
10 costs and the markets forecasts used in the economic analysis of the Storage/Solar JV
11 projects and Tesla Power program. He concluded: GMP's hedging program is
12 insufficiently documented and structured; the market price analysis used in Storage/Solar
13 JV projects and Tesla Powerwall may not justify their investments; and that GMP has not
14 sufficiently evaluated Demand Response as a resource. **NEED EDS TESTIMONY**

15
16 **Capital Structure and Cost of Capital**

17 **Q30. Please summarize the Company's requested cost of capital and capital structure.**

18 A30. GMP requests an authorized return on equity of 9.3 percent and a capital structure
19 consisting of 49.85 percent equity and 50.15 percent debt. The weighted average cost of
20 capital ("WACC") was estimated at 5.28 percent when factored for the nine month rate
21 period.

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

Q31. What does the Department recommend for GMP’s Cost of Capital?

A31. In his testimony, Richard A. Baudino of J. Kennedy and Associates, recommends a return on equity range of 9.1% based on analysis that shows reasonable range for the ROE of 8.7% to 9.35%. This recommendation is consistent with the 9.3% cost of equity that Department agreed to in the settlement with GMP in the last rate case however the PUC did not adopt that part of the settlement. Given that the 9.3% return still falls within the reasonable settlement, but the Department again recommends that the PUC adopt a 9.3% cost of equity. Mr Baudino concurs with the Departments recommendation. Mr Baudino agrees with GMP’s requested capital structure and cost of Short-term debt. Finally, Mr. Baudino lowered the cost of GMP’s future debt issues to 5.03% resulting in an overall recommended cost of capital for GMP of 6.97%. EXPRESS IN NINE MONTH TERMS?

The Department’s Revised Cost of Service

Q32. Please summarize the Testimony of Jacob Thomas.

A32. In this case the Department did not procures the services of the consultant from Larkin & Associates who has handled GMP cases for many years and, consequently, we do have access to large amount of institutional knowledge about how GMP’s models work. Mr. Thomas provides the Department’s cost-of-service model incorporating the adjustments to cost of capital, capital spending and power supply adjustments based on information in the petition and from discovery. It is likely that GMP will identify more accurate ways to

1 estimate these adjustments and the Department will continue to work with GMP to ensure
2 our adjustments accurately reflect the recommendations.

3
4 **Return of Accumulated Deferred Income Taxes Through a Bill Credit**

5 **Q33. What does this issue pertain to?**

6 A33. The Tax reform that went into effect on January 1, 2018 lowered the corporate federal
7 income tax rate from 35% to 21%. This has resulted in two major impacts to GMP's cost
8 of service. The first is, on a going forward basis, GMP will need to collect less Federal
9 Income Tax from ratepayers. The second relates Accumulated Deferred Income Taxes
10 (ADIT) that were collected from rate-payers based on the old tax rate. The amount of
11 ADIT in excess of the new rate will be returned to ratepayers in two ways. Some portion
12 will be returned over multiples years based on the remaining life of certain assets. GMP
13 is also proposing that other portion, \$27.4 million, be returned to rate payers as a bill
14 credit to be paid over the rate year.

15
16 **Q34. Does the Department Support GMP's proposed treatment of the excess**
17 **Accumulated Deferred Income Taxes?**

18 A34. Yes. Terry Myers of GDS Associates, Inc. performed an extensive review of the
19 analysis GMP performed in this area and found no issues. In fact, he indicated that the
20 GMP analysis was one of the most well prepared that he had seen. The Department
21 supports the proposal and appreciates GMP's proactive efforts to return the excess

1 accumulated deferred income taxes to ratepayers in a timely manner through one-time
2 bill credits in the current and proposed rate periods.

3
4 **Storage/Solar JV Projects**

5 **Q35. Is the Department comfortable with the process GMP used to evaluate the need for**
6 **the Storage/Solar projects?**

7 A35. No. The company has not asserted that there is a physical system need (safety, reliability,
8 replace aging or damaged equipment, etc.) or regulatory policy requirement for this type
9 of equipment. Although originally proposed as microgrids GMP did not propose
10 installing the equipment needed to isolate the circuits. In fact, in response to a discovery
11 request in the Milton Microgrid proceeding, Case No. 17-5003-PET, the company stated
12 that: "GMP does intend to implement islanding capabilities with the Project, recognizing
13 that the costs and benefits of those activities are separate from the base use cases
14 (primarily peak load reductions and Frequency Regulation) presented in the CPG
15 application. **GMP wishes to emphasize that the business case for the Project is based**
16 **on the positive economics described by the cost benefits analysis.** (Emphasis added)
17 At the time that the scope of providing islanding services have been fully analyzed, the
18 costs and benefits of providing those services to customers will be separately identified
19 and evaluated before proceeding." Furthermore, GMP did not provide any support
20 indicating that other alternatives to battery storage were adequately considered and GMP
21 did not solicit RFPs from competing suppliers. Therefore, least cost alternatives were not

1 fully explored, and the location of these projects is not relevant in terms of necessity or
2 benefit.

3
4 **Q36. Does the Department believe that these projects will provide the asserted economic**
5 **benefit to ratepayers?**

6 A36. The primary justification offered by GMP for these projects is the economic benefit to
7 rate payers; however that benefit is subject to execution and market price risk. As
8 indicated earlier in my testimony, Mr. Davis of GDS Associates has raised doubts about
9 the analysis showing that the project will provide economic benefits since the market
10 price forecasts were generally optimistic. The value of the projects is highly dependent on
11 factors such as market price, the success in timing of peaks and other assumptions. The
12 NPV is also impacted by the non-traditional upfront ratemaking treatment of the
13 developer fee and HLBV. In short, there is a significant risk that ratepayers will not
14 receive the asserted economic benefits. The degree of uncertainty around the economic
15 benefits is troubling since the only purpose of the project is to provide those benefits.

16
17 **Q37. Does the Department have concerns with the way GMP is accounting for the year**
18 **one HLBV and developer fee?**

19 A37. Yes. Terry Myers of GDS Associates, Inc. raises a concern regarding how GMP is
20 treating the Hypothetical Liquidated Book Value and the up-front developer fee when its
21 Storage/Solar Joint-Venture (“JV”) projects are put in service. GMP currently uses this
22 fee to reduce amortization which benefits ratepayers in the first year but results in higher

1 costs in subsequent years. This is intergenerational discrimination. The normal
2 ratemaking approach is for these benefits to be amortized over the life of the projects. Mr
3 Myers also indicates that IRS may determine that this upfront treatment violates its
4 normalization rules. If that is the case, GMP could lose its ability to use accelerated
5 depreciation. The Department's position is that this departure from the normal treatment
6 requires specific approval from the PUC.

7
8 **Q38. What risks do the tax equity investors face?**

9 A38. Very little. The tax equity partner contributes cash to the Project upfront and in return,
10 receives most of the tax depreciation, ITC benefits, and rights to a small amount of the
11 cash flow from the Project for the first five years.

12
13 **Q39. Do GMP investors face any risk that they will not earn their authorized return?**

14 A39. Once the project is added to rate base, GMP will earn its authorized rate of return over
15 the life of the project. Except for variations due to changes in GMPs authorized return on
16 equity, or other highly unlikely exogenous events, there is almost no risk associated with
17 those earnings. However, ratepayers bear a risk associated with the NPV due to the
18 length of the payback time and the volatility associated with the market price risk.

19
20 **Q40. Why does the Department recommend that GMP be required to provide financial**
21 **assurance that the rate payers will receive the asserted benefits?**

1 A40. In short it is about ensuring a balance of equities. The primary benefit for ratepayers
2 being asserted by GMP is economic. GMP and the project investors will earn handsome
3 returns with minimal risk. These returns are backstopped by rate payer money and the
4 rate payers are being asked to bear a disproportionate amount of risk as compared to
5 GMP and project investors. Again, this is not like investing in a substation, transformers
6 or poles, where ratepayers will clearly receive operational benefits from the assets. This
7 is a speculative investment where the benefits are risky and purely economic. The
8 Department recommends that the PUC require GMP to provide ratepayers financial
9 assurance for the asserted economic benefit to ratepayers of these projects and, that GMP
10 investors indemnify ratepayers from any financial consequences that result from adverse
11 IRS rulings relating to GMP's approach to the HLBV and developer fees.

12
13 **Forecasted Sales and Customer Growth Costs**

14 **Q41. Does the Department have an issue with GMP using forecasted sales for the 2019**
15 **rate period?**

16 A41. Not in this circumstance. Although PUC precedent is clear for traditional ratemaking, the
17 regulatory mechanics of operating under a multiyear rate plan make that precedent
18 impractical for several reasons. First, depending on the design of the multi-year plan,
19 there is to be a need to create an annual sales forecast to flow through rate adjustments
20 related to purchased power estimates. To avoid unnecessary volatility, prior period actual
21 sales will need to be adjusted for known and measurable changes, such as significant
22 known changes in loads, and will need to be weather normalized. Secondly, Ed

1 McNamara has done an extensive review of the forecasting methodology employed by
2 GMP and has determined that it is an acceptable approach in this circumstance.

3
4 **Q42. Does the Department support the inclusion of costs related to customer growth for
5 the 2019 rate period?**

6 A42. In this circumstance yes. Assuming a multi-year rate plan is adopted, it would
7 impractical to apply the traditional rate making approach of excluding customer growth
8 related costs. It would require that GMP to incur multiple years of regulatory lag related
9 to the recovery of the growth related costs; or require an annual adjustment mechanism to
10 true-up to the actual growth related costs incurred.

11
12 **Q43. Please describe the appropriate ratemaking treatment for growth-related plant in
13 Vermont.**

14 A43. My understanding of the appropriate ratemaking treatment for growth-related plant
15 comes from *Tariff filing of Green Mountain Power Corporation*, Docket No. 5428, Order
16 of 1/4/91. In that case, GMP sought to include a number of capital additions in its rate
17 base that the Department argued were being put into service to serve new customers,
18 either in whole or in part. The Board set forth its rule of decision as follows:

19 The Board has previously held that since revenues from new customers are not
20 included in rate year income, expenses associated with serving those customers
21 should also be excluded. We apply that principle in this case, but we do not extend
22 it to exclude investments that are made to maintain adequate and efficient service
23 for test year customers and are only incidentally available to serve new customers
24 as well. We have allowed inclusion of certain improvements which will be able to
25 accommodate some growth-related sales, where the record demonstrates that the

1 improvements were not undertaken in order to accommodate growth, but were or
2 are needed to maintain adequate and efficient service for test year customers,
3 absent any load growth.
4

5 *Id.* at 21.
6

7 **Q44. Is there any other circumstance where it is appropriate to consider growth-related**
8 **plant in establishing utility rates?**

9 A44. Yes. The rule is based on the need to match revenues and costs when setting rates, so that
10 the numerator (costs) is spread fairly across the appropriate denominator (sales). In the
11 case cited above, the Board achieved this by using test year sales and excluding growth-
12 related plant. Theoretically, you can achieve a similar matching using rate year
13 (projected) sales and including growth-related plant. This too, should achieve a matching
14 between revenues and sales. Because using projected figures has, in the past, been
15 considered less reliable than using known test-year figures, it makes sense as a general
16 matter to use the known test-year figures and exclude growth-related plant. In this case
17 the Department is satisfied that the method for forecasting sales is acceptable.
18

19 **Q45. Is there precedent for including growth related costs when establishing rates?**

20 A45. Yes. In Vermont Gas's last rate case (Docket No. 8710), the Board approved the
21 placement of the Addison Project into rates, even though that project was a growth-
22 related project, i.e., it was built to serve new customers rather than to maintain adequate
23 and efficient service for test year customers.

1
2
3
4
5
6
7
8
9
10
11

Customer Service

Q46. Please summarize the Department’s testimony regarding GMP’s Customer Service?

A46. Ms. Flint, the Department’s CAPI Director, presents an overview of GMP’s recent customer service history including service reliability, as well as an opinion of the Company’s provision of certain un-tariffed products and services. Ms. Flint does not recommend any adjustments to GMP’s cost-of-service.

Q47. Does this conclude your testimony?

A47. Yes.