

November 4, 2021

VIA ELECTRONIC FILING

Public Service Commission of Utah Heber M. Wells Building, 4th Floor 160 East 300 South Salt Lake City, UT 84114

Attention: Gary Widerburg

Commission Administrator

Re: Docket No. 20-035-34

> In the Matter of Rocky Mountain Power's Application of Rocky Mountain Power for Approval of Electrical Vehicle Infrastructure Program

Rocky Mountain Power Rebuttal Testimony

In accordance with the Scheduling Order and Notice of Hearing issued by the Public Service Commission of Utah on September 14, 2021, Rocky Mountain Power hereby submits for filing its rebuttal testimony in the above referenced matter.

Rocky Mountain Power respectfully requests that all formal correspondence and requests for additional information regarding this filing be addressed to the following:

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Sincerely,

Joelle Steward

Vice President, Regulation

Service List Docket Nos. 20-035-34 cc:

CERTIFICATE OF SERVICE

Docket No. 20-035-34

I hereby certify that on November 4, 2021, a true and correct copy of the foregoing was served by electronic mail to the following:

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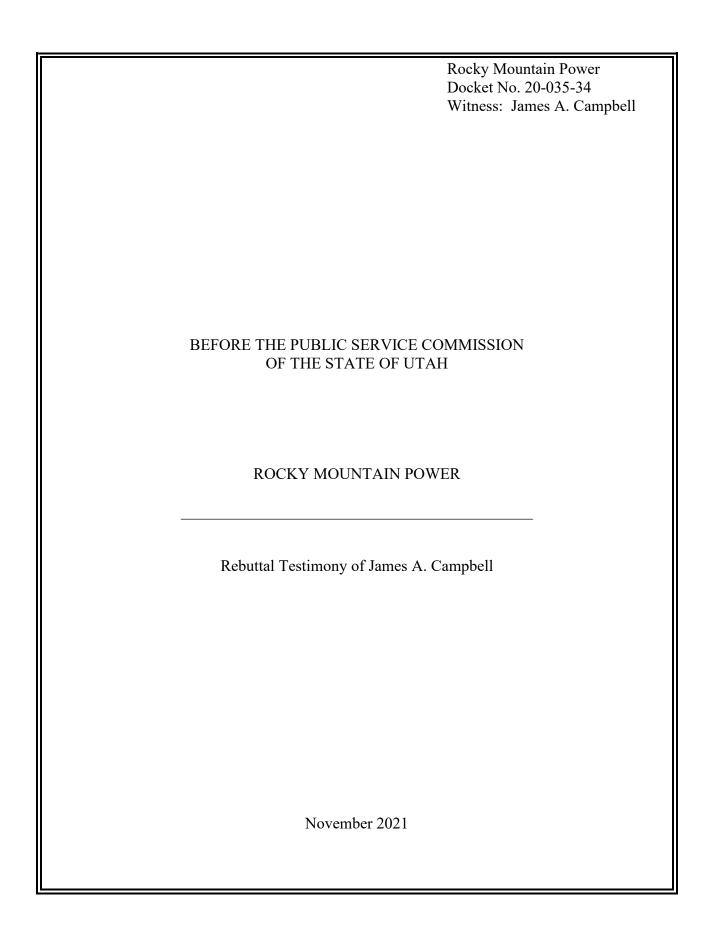
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- 1 Q. Are you the same James Campbell that filed direct testimony on behalf of
- 2 PacifiCorp d/b/a Rocky Mountain Power ("Rocky Mountain Power" or
- 3 the "Company") in this proceeding?
- 4 A. Yes.

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5 I. PURPOSE OF TESTIMONY

- 6 Q. What is the purpose of your rebuttal testimony?
- 7 A. The purpose of my rebuttal testimony is to respond to concerns and recommendations
- 8 regarding the Company's proposed Electric Vehicle Infrastructure Program ("EVIP"
- 9 or "Program") raised by witnesses for the various parties in this matter.

II. SUMMARY OF TESTIMONY

- 11 Q. Please summarize your rebuttal testimony.
- 12 A. My rebuttal testimony supports the Company's proposed EVIP and demonstrates why
- it satisfies the public interest under Utah Code section 54-4-41. The proposed EVIP
- will increase the availability of charging services throughout Utah, which will increase
- the adoption rates of electric vehicles ("EVs"). The EVIP as proposed will enable
- 16 competition and innovation and promote customer choice. The Company's proposed
- 17 EVIP presents a comprehensive plan to fund infrastructure, including Company-owned
- charging stations, make-ready investments and incentives. The Company commits to
- provide ongoing reporting to the Commission and stakeholders and to re-evaluate the
- 20 program after five years.

| 21 | Q. | What is your general observation of the parties' testimony on Company's |
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| 22 | | proposed EVIP? |

A. Most parties were supportive of an EVIP and recommend approval of the Program, although some parties did condition their support on proposed modification to the EVIP's pricing, questions about the program's competitiveness, and recommendations on specific program elements.

III. PUBLIC INTEREST

Q. What are the public interest requirements for the EVIP?

A.

The public interest requirements under Utah Code section 54-4-41(4) are met if the proposed EVIP: (a) increases the availability of electric vehicle battery charging service in the state; (b) enables the deployment of infrastructure that supports electric vehicle battery charging service and company-owned charging stations in a manner expected to increase electric vehicle adoption; (c) includes an evaluation of investments in the areas of the jurisdictional land, defined in Utah Code section 11-58-102 (the Inland Port) and the point of the mountain land, defined in Utah Code section 11-59-102 (Point of Mountain); (d) enables competition, innovation, and customer choice in charging service, while promoting low-cost services for electric vehicle battery charging customers; and (e) provides for ongoing coordination with UDOT.

40 Q. Division of Public Utilities ("DPU") witness Mr. Robert A. Davis asserts that the Company's EVIP proposal may not satisfy section 54-4-41(4)(a) of the Utah 41 42 Code. How do you respond to this claim? 43 The public interest standard in Utah Code section 54-4-41(4)(a) requires that the A. 44 Program "increases the availability of electric vehicle battery charging service in the 45 state." The proposed EVIP will clearly increase availability of the charging service by a minimum by 20-25 locations with 80-100 chargers in utility-owned charging service 46 47 across the state. The Program will increase EV adoption that will further increase 48 demand for charging services resulting in third parties investing in additional EV 49 infrastructure. The Program will also increase EV adoption and availability of charging 50 service through make-ready investments and incentives. The Program design clearly 51 meets the public interest standard in Utah Code section 54-4-41(4)(a). 52 What are the parties' positions as to whether the proposed EVIP meets the Q. 53 public interest requirement in section 54-4-41(4)(b) of the Utah Code? 54 Utah Code section 54-4-41(4)(b) states that the Public Service Commission A. 55 ("Commission") shall find the program to be in the public interest if it enables the 56 significant deployment of infrastructure that supports EV battery charging service in a 57 manner reasonably expected to increase EV adoption. Mr. Davis raises some concerns

with regards to the Utah State University ("USU") study on EV adoption, which was

provided in my direct testimony as Exhibit RMP (JAC-5). Professor Regan Zane,

the Director of the ASPIRE Center at USU, the only federally funded Engineering

Research Center on electric transportation infrastructure in the country, provides

¹ Confidential Direct Testimony of Robert A. Davis, October 19, 2021, p. 4, lines 66-67.

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rebuttal testimony in response to the concerns raised by Mr. Davis and demonstrates how the EVIP satisfies the requirement in Utah Code section 54-4-414(b).

Q. Does the proposed EVIP meet the public interest requirement of Utah Code section 54-4-41(4)(b)?

Yes. One of the barriers to widespread EV adoption is the consumer perception that there is not sufficient charging infrastructure. A simple qualitative review of relevant literature on the topic finds that increasing the amount of charging infrastructure is critical for increased EV adoption. ^{2,3,4,5} The Company designed the EVIP to deploy significant utility-owned infrastructure and utility-owned charging service. This design includes 20-25 locations (with roughly four chargers per location) strategically located throughout the state with sufficient charging speeds to address both charging gaps in the state and to provide needed capacity, particularly in populated areas. This investment is coupled with non-utility make-ready investments and incentives to complement the utility-owned infrastructure.

Q. Did any other party support this assertion?

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77 A. Yes. Utah Clean Energy ("UCE") witness Thomas Kessinger lists the likelihood of 78 increased EV adoption as one of his positive observations of the EVIP. Zeco Systems, 79 Inc., d/b/a Greenlots ("Greenlots") witness Mr. Thomas Ashley states that "Utility 80 investments in transportation electrification are thus vitally needed to instead catalyze

² Neaimeh, M, et al, Analysing the Usage and Evidencing the Importance of Fast Chargers for the Adoption of Battery Electric Vehicles, Energy Policy 108 (2017) 474-486

³ Coffman, M., Bernstein, P., Wee, S. Electric Vehicles Revisited: A Review of Factors That Affect Adoption. Transport Reviews, Vol. 37, No. 1, 2017, pp. 79–93.

⁴ Funke, S., et al, How Much Charging Infrastructure Do Electric Vehicles Need? A Review of the Evidence and International Comparison. Transportation Research Part D, 77 (2019) 224-242

⁵ Hennlock, Magnus, Strong Link between Charging Infrastructure and Electric Vehicle Adoption. Shift Policy Brief, Sustainable Horizons in Future Transport (2020)

a virtuous cycle of investment whereby the increased visibility of EV charging stations leads to more EV adoption." Professor Zane also supports this perspective in his rebuttal testimony. In addition to the qualitative review, the Company requested that Professor Zane and the USU's ASPIRE Center conduct a quantitative review of the proposed EVIP to ascertain if it would increase EV adoption. The USU's analysis had the following findings:

Table 1. Comparison of EV Adoption with and without EVIP

| Year | W/out RMP Programs | W/RMP Programs | Increase Due to RMP Programs |
|------|-----------------------|-------------------|------------------------------|
| | (# vehicles) | (# vehicles) | (# vehicles) |
| 2026 | 36,000 | 63,000 | 27,000 |
| 2031 | 107,000 | 230,000 | 123,000 |

As described in his rebuttal testimony, and quantified above, Professor Zane concludes that the proposed EVIP enables the significant deployment of infrastructure in a manner that will reasonably expect to increase EV adoption.

- Q. Please summarize the issue raised by Mr. Davis with respect to the emissions calculations presented by the Company in your direct testimony.
- 93 A. Mr. Davis questions the Company's claims that increased EV mileage leads to a net 94 reduction in Carbon Dioxide ("CO₂") based on updates from the most recently filed 95 integrated resource plan ("IRP").

96 Q. How do you respond to these concerns?

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97 A. First, in the workpapers that I submitted with my direct testimony, the emissions

Page 5 - Rebuttal Testimony of James Campbell

⁶ Direct Testimony of Thomas Ashley, October 19, 2021, p. 10, lines 8-10.

calculations show the calculations for Table 5 Annual Transportation Sector Greenhouse Gas ("GHG") Emissions Reductions in my direct testimony. The workpapers were updated to include new information for system emission factors that were derived from the Company's most recent IRP, as provided in my revised workpapers. The new information from the IRP does not change the conclusion that the EVIP results in transportation sector emission reductions. In fact, the emission reductions from increased EV adoption are even greater due to the fact that the 2021 IRP results in lower system emissions.

Second, Mr. Davis draws an erroneous conclusion about emission reductions with increased EV usage based on a failure to account for increased emissions from an internal combustion engine vehicle as a comparison. The calculation included in my workpapers takes a proxy vehicle, defined by the U.S. Environmental Protection Agency as a passenger vehicle with 11,500 miles driven annually that emits 4.6 Metric Tons of CO2 per year,⁷ and switches the vehicle to an EV and calculates its estimated emissions from the system required to propel the vehicle 11,500 miles in a year. The emission reductions are then calculated by subtracting the emissions from the proxy internal combustion engine vehicle with the emissions associated with the EV (system emissions). In Mr. Davis's analysis, he increases the miles driven from the EV (up to 25,000 miles driven) and the associated system emissions to propel the EV 25,000 miles which results in greater CO2 emissions for the EV. However, the problem with Mr. Davis's calculation is that he fails to increase the emissions since the vehicle

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⁷ U.S. EPA Office of Transportation and Air Quality, *Greenhouse Gas Emission from Typical Passenger Vehicle*, EPA-420-F-18-008, March 2018

| 120 | | is now traveling 25,000 miles, rather than the 11,500 miles, which produces only 4.6 |
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| 121 | | Metric Tons of CO2 emissions. |
| 122 | Q. | Mr. Davis raises concerns with the Estimated Expenditures in Confidential |
| 123 | | Exhibit RMP(JAC-2). How do you respond to these concerns? |
| 124 | A. | Mr. Davis's concern is that the Company conducted a high-level estimate for projected |
| 125 | | costs that lacks granularity. However, Mr. Davis fails to recognize that the two biggest |
| 126 | | cost variables for locations with high powered EV fast charging are 1) equipment and |
| 127 | | network services, and 2) site engineering costs. Firm costs cannot be determined in a |
| 128 | | pre-program planning exercise. In order to provide the costs at a more granular level, |
| 129 | | the Company needs to conduct a rigorous and competitive Request for Proposal |
| 130 | | ("RFP") process to hire vendors and contractors. Further, detailed engineering site |
| 131 | | analysis needs to be performed for each site location, along with permitting and load |
| 132 | | impact analysis to get a valid estimate of the true costs. It would be premature for the |
| 133 | | Company to conduct those activities prior to the Commission approving the Program. |
| 134 | Q. | Mr. Davis also claims that the Company did not provide enough detail on the |
| 135 | | balancing account. Can you address his concerns? |
| 136 | A. | The Company has provided an illustration for the mechanics of the balancing account |
| 137 | | through discovery that included the estimated revenues, expenses along with the |
| 138 | | carrying charge that includes the Company's pre-tax average weighted cost of capital |
| 139 | | of 8.99 percent in accordance with section 54-4-41(6)(a). If necessary, the details of |
| 140 | | the balancing account could be addressed in the reporting requirement process I |
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introduce later in this testimony.

| 142 | Q. | Mr. Davis claims that the EVIP is not in the public interest because sections 54-4- |
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| 143 | | 41(4)(c) and (e) of the Utah Code are not satisfied. What is your response to this |
| 144 | | assertion? |
| 145 | A. | Mr. Davis asserts that the Company failed to meet this public interest standard because |
| 146 | | it lacked formality in the coordination with third party entities and did not take meeting |
| 147 | | minutes in its pre-program interactions with the Point of the Mountain State Land |
| 148 | | Authority ("POM"), the Utah Inland Port Authority ("UIPA"), and UDOT. The |
| 149 | | recording of meeting minutes is not a statutory requirement under Utah Code sections |
| 150 | | 54-4-41(4)(c) and (e). However, the Company did engage with both the POM and |
| 151 | | UIPA and has signed Cooperation Agreements with both of those organizations, which |
| 152 | | are provided as Exhibit RMP(JAC-1R). In those Cooperation Agreements, signed |
| 153 | | by the chief executives of the organizations, a framework was identified to evaluate the |
| 154 | | potential investments in EV charging infrastructure within both the POM and UIPA |
| 155 | | areas. |
| 156 | | In terms of UDOT, the Company has regularly met with the state agency since |
| 157 | | April of 2020 and assisted in the development of a State-wide Electric Vehicle |
| 158 | | Charging Network Plan. Further, the Company and UDOT have agreed to meet and |
| 159 | | coordinate on an on-going basis. This agreement is confirmed in a letter from Mr. Lyle |
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McMillan, UDOT Director of Strategic Investments who is the senior manager

responsible for UDOT's EV charging activities, which is attached to my testimony as

Exhibit RMP___(JAC-2R).

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| Q. | DPU witnesses Mr. Davis and Mr. Williams claim that the EVIP is not in the |
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| | public interest because it fails to meet section 54-4-41(4)(d) of the Utah Code? |
| | What is your response to this assertion? |

A.

The DPU concludes RMP's EVIP proposal does not meet the competition-related public interest requirements because the Program focuses too heavily on utility charging stations, and it includes discounts for the Company's customers that the DPU believes are excessive. However, this assertion is contrary to the governing statute. The plain language in sections 54-4-41(2)(a)(i) and (ii) of Utah Code demonstrates the Utah Legislature's intent to have utility-owned infrastructure and utility-owned charging service provided by the Company (both are needed for utility charging stations). Utility ownership of infrastructure and charging service within the Program is not just a component of the statute, it is the primary purpose of the statute. The intent of these provisions is to create conditions that support low-cost charging for customers to encourage the adoption of EVs. Company witness Mr. Robert M. Meredith provides additional support for the Company's proposed rate structure and discount for Rocky Mountain Power customers.

In arguing that the proposed EVIP is not in the public interest because it does not sufficiently enable competition, the parties erroneously focus on only one part of section 54-4-414(d) of Utah Code. That section states that the Commission shall find the Program to be in the public interest if the EVIP, "enables competition, innovation, and customer choice in [EV] charging services, while promoting low-cost services for EV battery charging customers." Parties argue that the proposed discount makes the EVIP non-compliant with this provision. However, the discount actually makes the

proposed EVIP compliant as the Program will promote "low-cost services". Further, as Mr. Meredith explains, the cost to serve is currently unknown for the Company and for third parties, so to artificially force the EVIP to conform with other third-party business models may be in direct violation of the section because the third-party business models may not be promoting low-cost services. The Legislature clearly intended for the Company to own and operate EV charging services, with a transitional rate, with a discount for Company customers, and that promotes low-cost services for charging customers. The EVIP has been designed to balance and comply with all public interest requirements of the statute. The proposed EVIP is in the public interest, as required by Utah Code section 54-4-41(4)(d) because it supports the creation of a sufficient charging network throughout the State with attractive charging prices that are expected to encourage EV adoption.

IV. EVIP FUNDING STRUCTURE

- Q. Please briefly summarize the Company's proposal on how the funding would be allocated to the various components of the EVIP.
- 201 A. The Company's proposed budget includes funding for 20 to 25 Company-owned 202 charging stations and a make-ready infrastructure component. The Company's 203 proposed split in funding between the two components is roughly two thirds for 204 Company owned stations and one third for make-ready infrastructure.
- Q. Did the parties have any recommendations for changes to this funding allocation?
- 207 A. Yes. Mr. Williams and Mr. Justin D. Wilson, witness for ChargePoint, Inc.

 208 ("ChargePoint"), recommend the Company shift investments from utility-owned

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infrastructure to make-ready investments. Mr. Williams recommends that the Company should be limited to capital spending on Company projects equaling one-third of the total capital spending based on current chargers located in the state.

Q. How do you respond to the recommendations of Mr. Williams and Mr. Wilson?

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Basing decisions on the existing levels of infrastructure in the state is problematic. First, the current levels of infrastructure in the state are insufficient to meet the goals of the program and the policy of the State of Utah. This insufficiency is one of the reasons why the Legislature created section 54-4-41 of Utah Code. Further, relying on older and in some cases outdated chargers as the basis for future decisions is akin to "driving by looking in the rear-view mirror." Mr. Williams, Mr. Wilson and other parties suggest moving significant funds from utility-owned infrastructure and charging service to support non-utility infrastructure and service. They make these suggestions without adequately addressing the impacts on the Program's goals and other public interest requirements, specifically section 54-4-41(4)(b) of Utah Code. Finally, the parties do not adequately address the impact of "shifting funds" on the prudency requirement for investments in section 54-4-41(7)(b) of Utah Code. This section of code defines investments as prudent if they "provide the...utility's customers significant benefits that may include revenue from utility vehicle charging service that offsets the large-scale electric utility's costs and expenses." If the number of utilityowned chargers is significantly altered as suggested by parties then it could prevent the Company from meeting the prudency requirement envisioned by the Legislature. Ultimately, section 54-4-41 of Utah Code is about utility-owned infrastructure and charging service not non-utility owned infrastructure and charging service.

| 232 | Ų. | One of the recommendations for the EVIP raised by Mr. Davis and Dr. Abdune |
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| 233 | | is to shift the time frame of the EVIP from 10 years to five years and shorten the |
| 234 | | time frame by which the \$50 million program funding collected through |
| 235 | | Schedule 198 to five years instead of the Company's proposed 10 years. What is |
| 236 | | your response to this recommendation? |
| 237 | A. | The Company strongly opposes this recommendation. First, Dr. Abdulle incorrectly |
| 238 | | claims that I recommended collecting \$10 million a year for five years. As described |
| 239 | | by Mr. Meredith, the Company's proposal is that the rates under Schedule 198 be set |
| 240 | | to collect \$5 million a year for ten years. My direct testimony proposes that the |
| 241 | | expenditures for the program take place over the first five years after which the Program |
| 242 | | could be re-evaluated, and appropriate adjustments could be made for the remaining |
| 243 | | five years. I do not propose collecting the funds from customers over five years, which |
| 244 | | would result in higher rates as described by Dr. Abdulle. The EVIP design was based |
| 245 | | on 10-year program, in which the stations would be installed over a five-year period |
| 246 | | intended to "prime the pump" and increase EV adoption, then during the next five years |
| 247 | | the Program is designed to build sufficient utilization so that these stations can operate |
| 248 | | on their own. Under the DPU proposal, the stations would have to stand on their own |
| 249 | | within the first five years, not giving sufficient time for the Program to create enough |
| 250 | | utilization. This could have a detrimental effect on the objectives of the EVID |

V. UTILITY-OWNED CHARGING SERVICE

Mr. Wilson, as well as Ms. Sara Rafalson, witness for EVgo Services, LLC ("EVgo"), suggest that competition in the market of EV charging service will be better served if the EVIP is modified to prevent the Company from establishing a network of utility-owned charging locations for a period of two or two and one-half years. How do you respond to this suggestion?

The Company strongly disagrees with this proposal. Mr. Wilson and Ms. Rafalson do not address the potential impact of delaying implementation of utility-owned infrastructure and utility-owned charging service on the program goals and statutory requirements outlined in sections 54-4-41(4) and (7) of Utah Code. The Company is concerned that delaying the program will suppress EV adoption and reduce the ability for the Company to generate significant benefits for customers like revenue from utility charging service. Mr. Wilson's and Ms. Rafalson's claims of competition being impacted by the EVIP are overstated. I agree with Mr. Ashley's assessment that the proposed Program will stimulate competition, in which "multiple and appropriately diverse opportunities to compete for business, which is critical for growing this nascent market and driving customer, market and EV driver value" and "[u]tility ownership and procurement should be understood to foster competition rather than hinder it."

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Q.

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⁸ Direct Testimony of Thomas Ashley, October 19, 2021, p. 6 lines 20-27.

269 Q. Mr. Wilson provides suggestions for the "Company-owned chargers program" 270 related to site host arrangements, parity rebates, and the Company's RFP process.⁹ How do you respond to these suggestions? 271 272 The Company disagrees with Mr. Wilson's suggestions for Company-owned chargers, A. 273 parity rebates and RFP process requirements. Mr. Wilson is recommending rules and 274 limits on Company-owned chargers as it relates to site locations and site arrangements. 275 In essence, Mr. Wilson is attempting to dictate the role the Company will have with its 276 own chargers and its relationship with Company partner site hosts. The net effect of 277 his suggestions would be to eliminate the utility-owned charging service which would 278 be in direct contradiction with Utah Code section 54-4-41(2)(a)(ii) and the legislative 279 intent of the governing statute. Furthermore, Mr. Wilson is proposing a parity rebate, 280 which is just an enhanced incentive for non-utility charging service providers. 281 Prioritizing the Program toward non-utility charging service is also counter to the 282 legislative intent. In addition, Mr. Wilson attempts to shape the Company's RFP 283 process. The Company possesses vast experience with sophisticated procedures for 284 administering complex competitive vendor selection processes that are in our 285 customers' interest. It is highly inappropriate for a company like ChargePoint to try 286 and influence that process through this proceeding since it could be a potential bidder or in direct competition with potential bidders. 287

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⁹ Direct Testimony of Justin D. Wilson, October 19, 2021, p. 54-63

| 288 | Q. | Some witnesses question the location selected for Company-owned charging | | | |
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| 289 | | stations. Specifically, Mr. Kessinger suggests that the Commission require the | | | |
| 290 | | Company to undertake a supplementary analysis of charging locations to include | | | |
| 291 | | equity in the plan, and that Company-owned charging locations should only be in | | | |
| 292 | | locations that would not be served by the private market. Ms. Deborah Kapiloff, | | | |
| 293 | | witness for Western Resource Advocates ("WRA"), recommends the Company | | | |
| 294 | | prioritize three primary criteria in locating charging stations. How do you | | | |
| 295 | | respond to the suggestions regarding Company-owned charging locations? | | | |
| 296 | A. | The Company disagrees with the suggestions from both Mr. Kessinger and Ms. | | | |
| 297 | | Kapiloff for Company-owned charger locations. Neither party explains how their | | | |
| 298 | | suggestions would enhance the Program's ability to meet statutory requirements for | | | |
| 299 | | public interest and prudency for investments outlined in sections 54-4-41(4) and (7) of | | | |
| 300 | | Utah Code, respectively. In particular, the parties do not show how their suggestions | | | |
| 301 | | would increase EV adoption or increase revenue compared to the locations already | | | |
| 302 | | identified by the Company. | | | |
| 303 | | VI. REPORTING, PROGRAM EVALUATION AND EDUCATION | | | |
| 304 | Q. | What are the reporting requirements in section 54-4-41 of the Utah Code? | | | |
| 305 | A. | Utah Code section 54-4-41(8) requires the Company to submit an annual report, on or | | | |
| 306 | | before June 1, to the Public Utilities, Energy, and Technology Interim Committee of | | | |
| 307 | | the Legislature ("PUETIC") about the EVIP's status, operation, funding, and benefits, | | | |
| 308 | | the disposition of the EVIP's funds, and the EVIP's impact on rates. | | | |

Q. Most of the witnesses recommend that the Commission not approve the EVIP absent additional reporting requirements and possible additional stakeholder processes. What is the Company's position on this issue?

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The Company agrees to annual reporting requirements of its EVIP separate from and in addition to its statutory obligation to the PUETIC. Most of the parties in this docket offered a wide range of suggestions as to the timing, contents and structure of what should be contained in a reporting requirement. The Company recommends the Commission include in its order in this docket a directive for the Company to file a proposed reporting template within 90 days of the order in this matter. Filing the reporting template after the Commission's order will allow the Company to incorporate the Commission's decisions in the template. The Company also intends that its proposed reporting template will be informed by the recommendations offered in the testimony by the parties. The Company also recommends that the Commission establish a comment period to allow interested parties an opportunity to comment on the proposed reporting requirements before the requirements are finalized in a commission order. This process is similar to how the reporting requirements were established in other matters, such as the annual Sustainable Transportation Energy Plan ("STEP") and New Wind and Transmission reports ¹⁰ and allows additional time for the reporting template to be thoughtfully assessed and be reflective of the Commission's order on the EVIP. The Company also suggests the proposals for additional stakeholder process be addressed through this post-order process.

¹⁰ See Docket No. 16-035-36, Rocky Mountain Power's September 1, 2017 filing, and Docket No. 17-035-40,

Rocky Mountain Power's August 31, 2018 filing.

| 330 | Q. | Mr. Kessinger claims there have not been any opportunities for meaningful |
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| 331 | | stakeholder engagement prior to filing the Program. Can you please elaborate on |
| 332 | | the Company's effort at stakeholder involvement prior to filing the EVIP? |
| 333 | A. | The Company disagrees with Mr. Kessinger's assertion that no meaningful opportunity |
| 334 | | for feedback was provided to stakeholders. The Company filed a notice in this docket |
| 335 | | on August 27, 2020, to notify the Commission and interested parties that it was in the |
| 336 | | early stages of developing a proposed charging infrastructure program and would be |
| 337 | | hosting a stakeholder input meeting. On September 24, 2020, the Company held this |
| 338 | | meeting with stakeholders and received input. Over the next several months, the |
| 339 | | Company developed the Program further. Before the Company finalized its proposed |
| 340 | | EVIP, it contacted stakeholders and set up a second stakeholder input meeting for |
| 341 | | June 29, 2021—55 days before the EVIP was filed with the Commission. The meeting |
| 342 | | materials were circulated prior to the meeting and the Company solicited stakeholder |
| 343 | | feedback and established an informal process for parties to submit comments two |
| 344 | | weeks after the meeting. Over the next month, the Company reviewed the feedback |
| 345 | | and updated its proposed EVIP to incorporate several recommendations from the |
| 346 | | stakeholders. In addition to the stakeholder meetings, the Company accommodated |
| 347 | | several requests for one-on-one meetings with individual organizations to provide |
| 348 | | additional information, including a meeting with UCE in early August 2021. Contrary |
| 349 | | to Mr. Kessinger's claims, the stakeholders were provided ample opportunity to be |

involved at multiple stages in the process.

351 Q. Mr. Alex Ware, witness for the Office of Consumer Services ("OCS"), and Ms. Kapiloff¹¹ suggest that the Company modify the EVIP to include an education 352 353 component of the program. How do you respond to this suggestion? 354 The Company agrees to expand the program to include education and outreach. In A. 355 particular, the Company agrees to include an explanation of how different charging 356 behaviors, such as on and off-peak charging, impact the grid. Further, the Company 357 agrees to include recommendations for best charging times and will explain how 358 certain patterns of charging behavior could drive the need for additional electric 359 system investments, raising rates and harming all customers, including non-360 participating customers. **INCENTIVES UNDER ELECTRIC SERVICE SCHEDULE NO. 120** 361 VII. 362 Please briefly describe the incentives being proposed under Electric Service Q. 363 Schedule No. 120 ("Schedule 120")? 364 Schedule 120 is for incentives for eligible customers that cover a portion of the cost of A. 365 charging equipment. The incentives were originally developed as part of STEP and are 366 scheduled to end on December 31, 2021. Although incentives are not utility-owned 367 infrastructure or utility-owned charging service, the Company felt they could be in 368 included in the EVIP at a modest level to help with the transition from STEP to the 369 EVIP and to enable customer choice in Utah Code section 54-4-41(4)(d). However, 370 incentives are not intended to be a key component of the EVIP authorized in section 371 54-4-41 of Utah Code.

¹¹ Direct Testimony of Alex Ware, October 19, 2021, p. 12, lines 238-51.

| 372 | Q. | Several parties offered suggestions for revisions to Schedule 120. How do you |
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| 373 | | respond to those suggestions? |
| 374 | Α. | There were several suggestions for revisions to Schedule 120 including increased |

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There were several suggestions for revisions to Schedule 120 including increased funding and requirements to use smart devices from ChargePoint and EVgo. WRA suggested specific allocations for different charging levels and different customers like multi-family dwellings and to use funding from Company-owned chargers to fund additional incentives. UCE suggested increases in funding and tying the incentives to time of use rates. OCS suggested limiting Schedule 120 for two to three years and removing the residential incentive until after the education component is implemented and the residential incentives are demonstrated to be in the public interest. The Company disagrees with all the suggestions except OCS. Since the incentive is not utility-owned infrastructure or utility-owned service and the incentives are not directly referenced in section 54-4-41 of Utah Code, the incentives outlined in Schedule 120 should be limited in scope and not expanded as suggested by many parties. It is a zerosum gain if incentives are expanded then utility-owned infrastructure and utility-owned service are reduced, which is counter to the clear intent of section 54-4-41 of Utah Code. The Company accepts OCS's suggestion to limit Schedule 120 to three years and to remove the residential incentive.

Q. Mr. Ashley from Greenlots suggests the Company utilize open standards and interoperability for charging infrastructure. How do you respond to this suggestion?

A. The Company supports this suggestion. The Division issued data request DPU 1.1 in which it raised the issue of generation capacity costs to support the EVIP. The

Company responded that it didn't know the generation capacity costs because it hasn't performed a cost-of-service study yet. Intuitively speaking it is expected that capacity costs will be minimal in the early years of the EVIP as EV adoption is still relatively small. However, if adoption levels are significant then there is the potential that capacity impacts could be measurable. In the event capacity impacts are significant, the Company would likely begin to implement demand side management programs to address capacity and load issues. The best way to reduce the cost impact of the demand side management programs is to future-proof the investments in charging infrastructure that are currently being proposed and to prepare for a future where load control and demand response are easily implemented. Although the EVIP doesn't have load control or demand response programs in its current plan, it is reasonable and responsible to require all the charging infrastructure investments be based on open standards and ensure interoperability. Further, incorporating open standards and interoperability is aligned with the Company's grid modernization efforts. As such, the Company will require open standards and interoperability on all investments including Companyowned chargers, make-ready investments and incentives.

- Q. Mr. Kessinger suggests that surplus revenue from Company-owned charging stations should either be refunded to customers or used for Schedule 120 incentives. What is your response to this suggestion?
- A. The Company proposes that all revenue from Company-owned charging stations will be entered into the EVIP's balancing account and credited to customers to offset costs and expenses of the Program as envisioned in section 54-4-41(7)(b) of Utah Code.

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| 417 | | Allocating revenue to specific components or refunding it to customers is unwarranted | | |
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| 418 | | and inconsistent with the statute. | | |
| 419 | Q. | Mr. Kessinger also recommends that the Commission order the Company to allow | | |
| 420 | | interested parties to be involved in its distribution system planning process by | | |
| 421 | | integrating that planning with the Company's IRP. How does the Company | | |
| 422 | | respond? | | |
| 423 | A. | The Company does not believe requiring the Company to implement a stakeholder | | |
| 424 | | involvement process in its distribution planning in the context of EVIP is | | |
| 425 | | appropriate. Funds collected through Schedule 198 are spent on distribution | | |
| 426 | | improvements determined in distribution studies specific to a particular application and | | |
| 427 | | project and would not relate to system planning activities. Given the nature of these | | |
| 428 | | specific distribution studies and sensitivities to the privacy of individual applications | | |

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VIII. INNOVATIVE PROJECTS AND PARTNERSHIPS

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| 434 | Q. | Ms. Kapiloff requests that the Company provide more detail regarding its |
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| 435 | | planned innovative projects and partnerships. Mr. Kessinger, UCE, claims that |
| 436 | | there is an inconsistency regarding the funding for the F-LED project, and Mr. |
| 437 | | Wilson suggests funding of innovative projects be limited within Company-owned |
| 438 | | chargers. How do you respond to these comments and suggestions? |
| 439 | A. | There appears to be confusion on what the innovative projects and partnerships entail. |
| 440 | | This Program element describes how the Company will integrate innovation and |
| 441 | | technology by leveraging insight and partnerships from other programs like the |
| 442 | | WestSmart EV@Scale Department of Energy grant and the Intermodal Hub project. |
| 443 | | There are no specifically funded projects or activities from the EVIP for this element. |
| 444 | | All projects that receive funding from the EVIP will fall into one of three investment |
| 445 | | categories: Company-owned chargers, make-ready investments, or incentives. The F- |
| 446 | | LED is an intriguing project that can help inform the broader EVIP activities because |
| 447 | | of its use of emerging technology. Further, the F-LED is attractive because it is located |
| 448 | | within the Utah Inland Port and the Legislature has specifically referenced investments |
| 449 | | in the Inland Port area. Since the F-LED project is still being developed and scoped |
| 450 | | the project details are not available. But if the F-LED project requests funding either |
| 451 | | through make-ready investments or incentives it will still have to go through the same |
| 452 | | application process and demonstrate that it meets the program goals and complies with |
| 453 | | sections 54-4-41(4) and (7) of Utah Code. Could Company-owned chargers be |
| 454 | | deployed within the Inland Port and participate with the F-LED project? Possibly. Salt |
| | | |

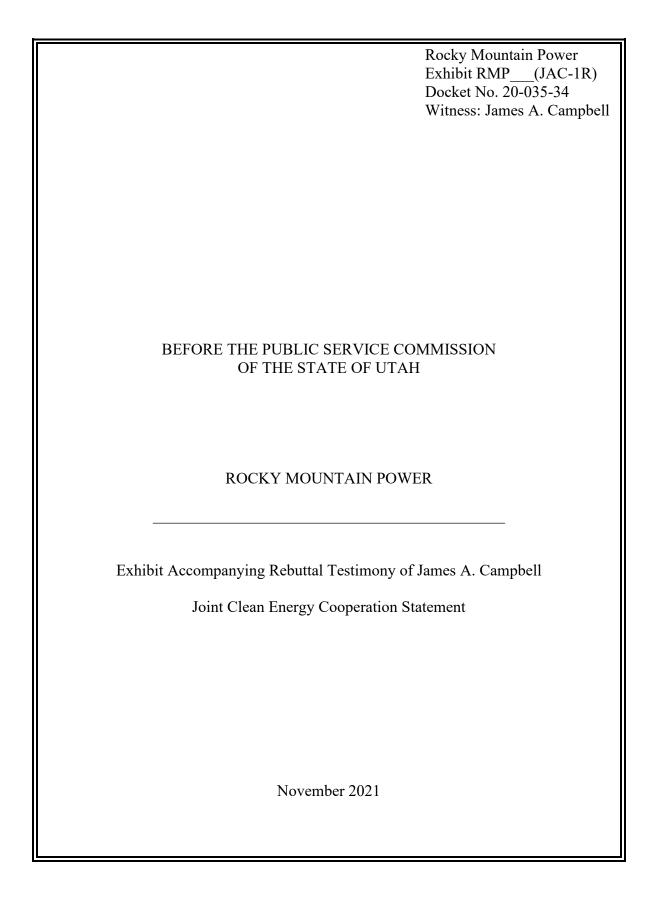
Lake City is a community that is identified for Company-owned chargers, but there

have been no requests or plans at this time to deploy Company-owned chargers in the
Inland Port area as part of the F-LED project since the project is still being scoped.

Q. Does this conclude your rebuttal testimony?

A. Yes.

Page 23 - Rebuttal Testimony of James Campbell







POINT OF THE MOUNTAIN STATE LAND AUTHORITY AND ROCKY MOUNTAIN POWER JOINT CLEAN ENERGY COOPERATION STATEMENT

The Point of the Mountain State Land Authority ("Land Authority") and PacifiCorp dba Rocky Mountain Power("Company") (collectively the "Parties") jointly state their intention to cooperate in accordance with the below stated objectives.

OVERVIEW

The Land Authority is a political subdivision of the state of Utah, established by Utah Code 11-59-201 (the "Act"), responsible to plan, manage, and implement development of the approximately 600 acres of state-owned land currently occupied by the Utah state correctional facility in the area commonly referred to as the Point of the Mountain (the "Point of the Mountain State Land").

The Company is a public electric utility regulated by the Public Service Commission of the State of Utah ("PSC") with a responsibility for providing safe and reliable electrical service to its customers at rates that are fair, just and reasonable as determined by the PSC.

The Parties have determined that it is in their collective interest and in the best interest of residents, visitors, businesses and Utah as a whole, to ensure that the Point of the Mountain State Land is developed in an environmentally responsible and sustainable manner. The Parties agree that focused efforts on developing the Point of the Mountain State Land in this manner will deliver benefits through enhanced air quality, improved public health and additional economic opportunities.

The Parties desire to work cooperatively to support mutual goals as identified herein through programs and innovative technologies that will be further developed through ongoing feasibility and implementation work.

II. GOALS

The Land Authority desires to support environmentally sustainable energy practices including, but not limited to, energy efficiency programs, low and zero-carbon energy development, electrified transportation infrastructure that is widely available, proactive infrastructure planning and exploration of additional innovative technologies. The Land Authority seeks to partner with the Company to create a model of sustainable development that significantly reduces air emissions and energy use, taking advantage of low and zero-carbon energy solutions, while advancing economic development.

Rocky Mountain Power
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Witness: James A. Campbell

The Land Authority further seeks to keep any additional costs to the Land Authority or energy users within the Point of the Mountain State Land associated with achieving its stated clean-energy goals reasonable. The Land Authority envisions measures to mitigate certain incremental costs associated with pursuing a clean-energy future to all energy users within the Point of the Mountain State Land.

The Company is committed to exploring opportunities to enhance power delivery methods and practices to help optimize electrification for tenants in the Point of the Mountain State Land and the ability to provide its users with cost-efficient clean energy power supply utilizing methods such as:

Blue Sky
Subscriber Solar
Schedule 137
Schedule 32/34
Other programs or structures that are consistent with applicable regulations

III. 10-YEAR POWER-USE FORECAST

The Company and Land Authority desire to work collaboratively to develop a 10-year load forecast for the Point of the Mountain State Land, anticipating that the forecast may need to be updated periodically. The parties are committed to work together to create the most reliable forecast by sharing non-confidential information, internal forecasts, land-use planning information, research, real estate data, personal experiences and other data.

IV. RENEWABLE ENERGY GENERATION AND STORAGE FORECASTING

Once a 10-year power forecast has been created, the Company will work with the Land Authority to prepare a broad energy generation and storage forecast to serve as a non-binding roadmap for future action. The clean energy generation and storage forecast will include a forecast for resource type (i.e. wind, solar, battery, renewable energy credits, etc.), resource size and action necessary to meet the needs of future energy users with low to zero-carbon energy resources. The Parties anticipate that the non-binding forecast will need to be updated periodically to accommodate site development, energy markets and other factors.

V. ELECTRIFIED TRANSPORTATION INFRASTRUCTURE

The electrification of transportation represents a promising opportunity for the State of Utah to address air quality while encouraging economic growth. Transportation electrification is a sound solution to reduce both criteria pollutants and carbon emissions from transportation while lowering operating costs as electricity is less expensive than traditional transportation fuels. The Land Authority and the Company agree to coordinate and collaborate on the following areas for transportation electrification:

a) Electric Vehicles – Advancements in battery and power train technologies have enabled a significant increase in the number and types of electric vehicles that are available in the marketplace. In the next few years, it is expected that electric vehicles will be available as

Rocky Mountain Power
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passenger vehicles, delivery trucks, work trucks, shuttle vans and buses. In addition, advancements are expected for flying taxis/drones and autonomous vehicles. The Parties agree to work together to evaluate vehicle technology and associated power needs to enable appropriate deployment of such vehicles.

- b) Charging Stations A requirement for the successful deployment and adoption of electric vehicles is having sufficient charging capacity. The Company agrees to work with the Land Authority to evaluate charging needs and technology requirements. Further, the Parties agree to evaluate the potential investment of Company-owned chargers within the Point of the Mountain State Land development, including funding availability under House Bill 396, Electric Vehicle Charging Infrastructure Amendments.
- c) Research and Grants Transportation electrification will be accelerated by emerging technologies. The Point of the Mountain State Land development is an ideal location to evaluate and test innovative technologies. The Parties agree to work together to encourage innovative technologies and pursue grant opportunities while prioritizing technologies developed by state institutions and entities within the development.

VI. TRANSMISSION AND DISTRIBUTION NETWORK PLANNING

A significant amount of new electric infrastructure is expected to be required to expand development at the Point of the Mountain State Land. The Company will work directly with the Land Authority to provide system impact studies to better understand the impacts of new energy usage in the area and required infrastructure to meet the needs of future development. Utilizing load, generation and storage forecasts, the Company will work with the Land Authority to identify future transmission and distribution infrastructure needs. The Parties will work in good faith to determine what action is appropriate to preserve energy infrastructure corridor necessary for delivery of energy to future customers, while considering impacts to development opportunities and land values. The Parties will also consider the Company's rights and obligations to maintain and access its facilities, as well as the Land Authority's needs for access to and from the Point of the Mountain State Land, while working in good faith to develop transmission and distribution network plans.

VII. COMMITMENT OF COOPERATION

The parties intend to work together in good faith to develop an implementation plan outlining respective roles, processes, responsibilities, timelines, program/project development pathways and costs to achieve the goals and deliverables outlined in this Cooperation Statement. The Parties will meet regularly to develop a framework of deliverables to support the implementation plan. The Parties acknowledge that additional approvals for specific aspects of the plan, agreements, etc. will require board approval of each Party and may require PSC approval.

The Parties agree to mutually implement the objectives stated in this cooperation statement, and not to take action contrary to the interests of the other party without first consulting with the other party.

This Cooperation Statement shall become effective upon signing by the Parties and will inform cooperation between the same, commencing immediately after signing. Progress toward objectives stated herein will

Rocky Mountain Power Exhibit RMP___(JAC-1R) Page 4 of 8 Docket No. 20-035-34 Witness: James A. Campbell

be reviewed and the Cooperation Statement may be extended in the future, with or without amendments, through a commitment by the Parties or may be terminated at any time by unilateral action of either Party.

IN WITNESS WHEREOF, the parties to this JOINT COOPERATIVE STATEMENT have affixed their signatures:

Point of the Mountain State Land Authority

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ate:

Rocky Mountain Power

Rocky Mountain Power
Exhibit RMP___(JAC-1R) Page 5 of 8
Docket No. 20-035-34
Witness: James A. Campbell

UTAH INLAND PORT AUTHORITY AND ROCKY MOUNTAIN POWER JOINT CLEAN ENERGY COOPERATION STATEMENT

The Utah Inland Port Authority ("Authority") and PacifiCorp dba Rocky Mountain Power, an Oregon corporation ("Company") (the Authority and the Company collectively referred to herein as the "Parties"), hereby execute this Joint Clean Energy Cooperation Statement ("Cooperation Statement") and jointly state their intention to cooperate in accordance with the below stated objectives.

I. OVERVIEW

The Authority is a political subdivision of the state of Utah, established by Utah Code 11-58-101 *et seq.* (the "Act"), which is responsible to implement strategies that use the best available technology to mitigate environmental impacts from logistics and goods movement facilities, development and uses within the Authority Jurisdictional Land (as defined in the Act) and in Project Areas (also defined in the Act) around the State, while promoting and optimizing logistics and goods movement to support the economy of the State and the United States.

Company is an electric utility regulated by the Public Service Commission of the State of Utah ("PSC") with a responsibility for providing safe and reliable electrical service to its customers by means and at rates that are fair, just and reasonable as determined by the PSC.

The Parties have determined that it is in their collective interest and in the best interest of residents, visitors, businesses and Utah as a whole, to ensure that the Authority Jurisdictional Land is developed in an environmentally responsible and sustainable manner. The Parties agree that focused efforts on developing Authority Jurisdictional Land in this manner will deliver benefits through improved public health, additional economic opportunities, long-term energy price stability and a stronger sense of community pride and security.

The Parties will work together to advance solutions which will make meaningful contributions to reducing pollution and greenhouse gas emissions of future and current activities within Authority Jurisdictional Land. This will include working to develop solutions to meet future electrical energy needs with net 100% renewable energy, planning for electrification of freight, cargo, and logistics equipment, and focused efforts on energy efficiency programs.

The Parties desire to work cooperatively to support mutual goals as identified herein through the use of programs and innovative technologies that will be further developed through ongoing feasibility and implementation work.

Pursuant to this Cooperation Statement, the Parties anticipate that additional and related cooperation agreements, memoranda of understanding, letters of intent or similar documents will be entered into between the Company, the Authority and the owners and/or developers of real property within the Authority Jurisdictional Land to further the goals of this Cooperation Statement.

II. GOALS

The Authority desires to support environmentally sustainable and other clean energy practices within the Authority Jurisdictional Land including, but not limited to, energy efficiency programs, cost-efficient renewable energy development and use, clean energy programs, energy storage, microgrids, proactive infrastructure planning, and exploration of innovative technologies. Specific areas for immediate study and exploration by the Authority and Company include: (i) the feasibility and cost-effectiveness of 100% of electric energy from renewable resources, such as solar panels, or other sources of clean electricity generation as may be developed in the future (including the question of whether such will be cost-effective for new development only or for all electric energy needs within the Authority Jurisdictional Land and/or Project Areas), and (ii) the feasibility and cost-effectiveness of electrifying logistics and goods movement facilities within the Authority Jurisdictional Land and/or Project Areas to include charging stations for electric vehicles (including short haul, regional and long haul trucks, off road cargo handling equipment, refrigerated cargo containers and other electric vehicles). Additional areas may be studied without further amendment to this Cooperation Statement.

The Company desires to support the UIPA's goal of environmentally sustainable development of Authority Jurisdictional Land. In support of the UIPA's goal, the Company intends to identify suitable renewable energy generation projects to support sustainable development of Authority Jurisdictional Land, while preventing adverse economic impacts to other customers. In addition, the Company desires to work closely with the UIPA to study and develop comprehensive plans to electrify vehicles and facilities that operate within the Authority Jurisdictional Land. In furtherance of those plans, the Company desires to study and deploy energy efficiency programs, energy management technologies, and other approaches to minimize environmental impacts to the Authority Jurisdictional Land.

III. 10 YEAR POWER USE FORECAST

The Company and the Authority will work together to develop a 10-year load forecast for Authority Jurisdictional Land. It is anticipated that the forecast may need to be updated periodically. The parties are committed to working together to create the most reliable forecast that may include sharing non-confidential information, internal forecasts, land-use planning information, research, real estate data, personal experience and other data.

IV. RENEWABLE ENERGY GENERATION AND STORAGE FORECASTING

After a 10-year load forecast has been created, the Company and the Authority will work together to prepare a broad electric energy generation and electric energy storage forecast to serve as a non-binding roadmap for future action. The renewable electric energy generation and storage forecast will include forecast for resource type (i.e. wind, solar, battery, renewable energy credits, etc.), resource size (in MW), delivery timeline, capital, and action necessary to meet the needs of future energy users with renewable energy resources. It is expected that the non-binding forecast will need to be updated periodically to accommodate real estate and port facility development, energy markets, and other factors.

V. TRANSMISSION AND DISTRIBUTION NETWORK PLANNING

Utilizing load, generation, and storage forecasts, the Company and the Authority will work together to identify future transmission and distribution infrastructure needs. The Parties will work in good faith to determine what action is appropriate to secure and preserve electric energy infrastructure corridor necessary for the delivery of energy to future customers.

VI. IMPLEMENTATION STEPS AND TIMING

The Parties intend to work together in good faith to develop an implementation plan outlining respective roles, processes, responsibilities, timelines, program and project development pathways and costs to achieve the goals and deliverables outlined in this Cooperation Statement. The Parties will meet regularly to develop a framework of deliverables to support the implementation plan. The Parties acknowledge that additional approvals for specific aspects of the plan (i.e. agreements, etc.) will require approvals from each Party and may also require PSC approval. The target deadline for completion and acceptance of the initial framework of deliverables by the Company and the Authority is May 31, 2020.

VII. COMMITMENT OF COOPERATION

As stated above, the Parties desire to work together to successfully achieve the stated goals and objectives in this Cooperation Statement.

This Cooperation Statement shall become effective upon signing by the Parties and will commence immediately after signing. Progress towards objectives stated herein will be reviewed and the Cooperation Statement may be: (i) extended in the future by amendment, or (ii) terminated at any time as to any Party by unilateral action of such Party. This Cooperation Statement does not reference all of the terms, conditions, representations, warranties, covenants, and other provisions that would be contained in the definitive documentation for the transactions contemplated by this Cooperation Statement. For the avoidance of doubt, this Cooperation Statement does not constitute and will not give rise to any legally binding obligation on the part of any Party or any of such Party's affiliates. This Cooperation Statement is not intended to constitute a binding and enforceable contract. Rather it is a memorandum of understanding which, if accepted by the Parties, shall cause the Parties to cooperatively and mutually move towards planning and gathering information upon which decisions for future direction and implementation can be made and, if then determined appropriate and desirable, drafting and negotiating a definitive and binding Agreement.

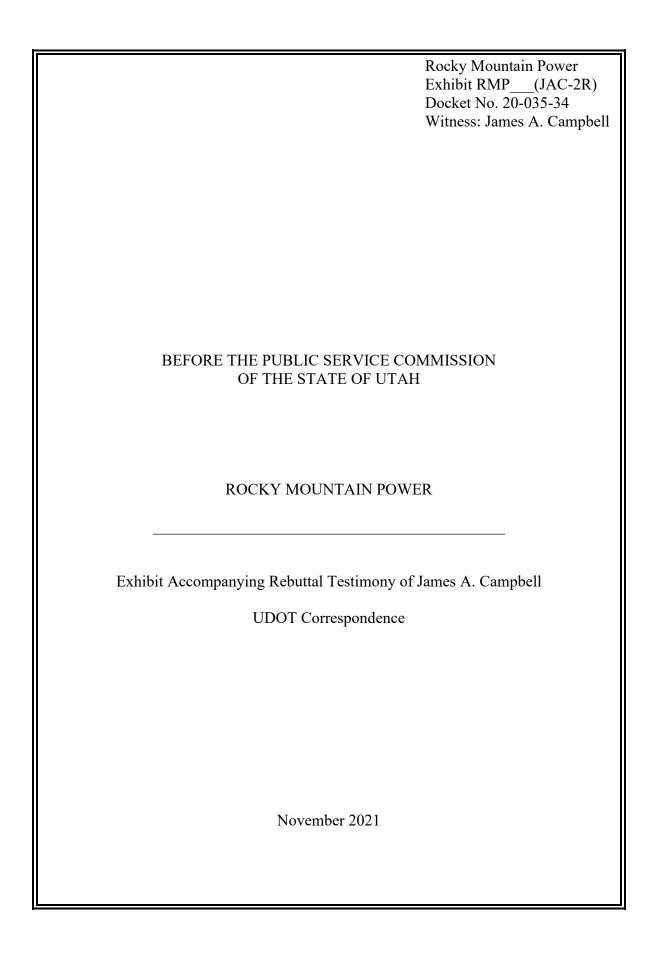
[Signature page follows]

Rocky Mountain Power Exhibit RMP___(JAC-1R) Page 8 of 8 Docket No. 20-035-34 Witness: James A. Campbell

IN WITNESS WHEREOF, the parties to this JOINT COOPERATION STATEMENT have affixed their signatures:

Utah Inland Port Authority

| Jack C. Hedge | Date: April 24 | 1, 2020 | |
|----------------------|-----------------|-----------|--|
| Printed Name | | | |
| Executive Director | | | |
| Title | | | |
| Signature | - | | |
| Rocky Mountain Power | | | |
| Gary Hoogeveen | _Date: <i>L</i> | 1/29/2020 | |
| Printed Name | | | |
| Produt & CEO | _ | | |
| Title | | | |
| Signature Thos | - | | |





State of Utah

SPENCER J. COX Governor

DEIDRE M. HENDERSON Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E. Executive Director

TERIANNE S. NEWELL, P.E. Deputy Director of Planning and Investment

LISA J. WILSON, P.E.

Deputy Director of Engineering and Operations

October 22, 2021

James Campbell
Director of Innovation and Sustainability Policy
Rocky Mountain Power

Dear James,

This letter confirms that since the conclusion of the 2020 Utah legislative session, Pacificorp dba Rocky Mountain Power has met continuously with UDOT to coordinate on the development and alignment of our respective state-wide EV charging network plans. During these regular informal meetings, UDOT provided input and feedback into the development of the EVIP. The meetings included discussions on state traffic patterns, rights-of-way, federal rules regarding rest stops on interstates, federal designations of Alternative Fuel Corridors, EV technology, utility service territory boundaries, and potential site locations. UDOT and Rocky Mountain Power have agreed to continue to meet and coordinate on the planning and deployment of Utah's EV charging network at regular intervals.

I very much appreciate your time, efforts, and willingness to work together towards meeting this critical next step in the evolution of transportation. Rocky Mountain Power's coordination with UDOT has helped make the State-wide Electric Vehicle Charging Network Plan a valuable resource to the citizens of Utah and our surrounding neighbors.

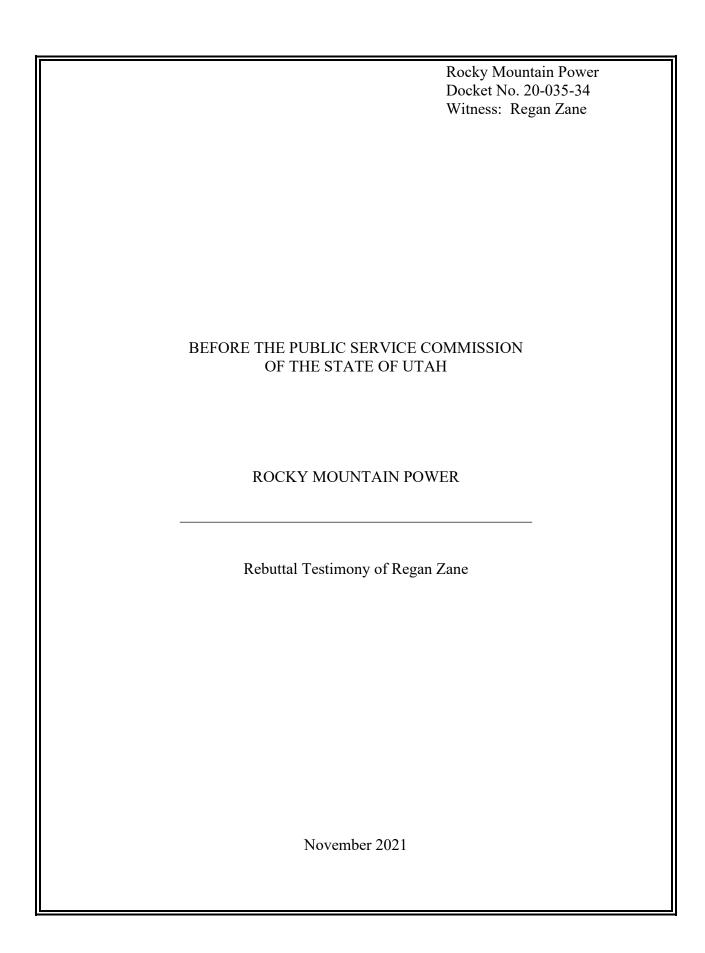
Best regards,

Lyle McMillan

Director, Strategic Investments Utah Department of Transportation

for & mi

Cc: Ben Huot, Director of Programming, UDOT



I. INTRODUCTION AND QUALIFICATIONS

2 Q. Please state your name and business address.

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- 3 A. Regan Zane, 4120 Old Main Hill, Utah State University, Logan UT 84322.
- 4 Q. By whom are you employed and in what capacity?
- 5 A. I am employed by Utah State University ("USU"), where I am the David and Diann
- 6 Sant Endowed Professor in the Electrical and Computer Engineering Department and
- 7 the Director of the Advancing Sustainability through Powered Infrastructure for
- 8 Roadway Electrification Engineering Research Center ("ASPIRE Center").
- 9 Q. Please describe your education and professional experience.
- 10 A. I received a Ph.D. degree in Electrical Engineering from the University of Colorado at
- Boulder in 1999. I've worked as a Research Scientist at General Electric's Corporate
- Research and Development Center in New York, as an Assistant and Associate
- professor at the University of Colorado and as the Sant Endowed Professor at USU. I
- have worked extensively in the field of power electronics with a strong emphasis for
- more than a decade on electric vehicles ("EVs") and charging systems and
- infrastructure to support widespread adoption of EVs. I have published more than 200
- peer-reviewed articles and have more than 30 issued patents. As Director for the
- ASPIRE Center, I lead a team of over 60 faculty and 150 students across
- nine universities with more than 50 industry and innovation partners, including a
- dedicated team of faculty and students focused on EV adoption.
 - Q. On whose behalf are you testifying in this docket?
- 22 A. I am testifying on behalf of PacifiCorp d/b/a Rocky Mountain Power ("Rocky
- 23 Mountain Power" or the "Company").

| 24 | Q. | Have you previously testified before the Public Service Commission? |
|----|----|--|
| 25 | A. | No. |
| 26 | | II. PURPOSE OF TESTIMONY |
| 27 | Q. | What is the purpose of your direct testimony in this case? |
| 28 | A. | The purpose of my testimony is to provide information regarding the impact of the |
| 29 | | proposed Electric Vehicle Infrastructure Program ("EVIP" or the "Program"), and the |
| 30 | | impact of utility-owned chargers on market competition. |
| 31 | | III. IMPACT OF PROGRAM ON EV ADOPTION |
| 32 | Q. | In your experience, what are the factors that affect EV adoption? |
| 33 | A. | The key factors to accelerate the adoption curve for EVs include the availability and |
| 34 | | cost of public fast charging, and similarly, the perception of trustworthy, dependable |
| 35 | | growing charging infrastructure for EVs. These factors are important for expanding |
| 36 | | adoption into a broader group of early adopters that have been considering EVs but are |
| 37 | | nervous to take action and purchase an EV. The availability of vehicles and different |
| 38 | | choices on make and model and vehicle classes are also important and are expected to |
| 39 | | expand significantly over the next two years with passenger cars from most |
| 40 | | manufacturers and many competing entries to the electric SUV and truck markets |
| 41 | | These vehicles will continue to be in high demand with limited production in the nex |
| 42 | | few years, and it is likely that regions with faster growth in charging infrastructure wil |
| 43 | | capture more of the early market of EVs. |
| 44 | Q. | What are the impacts of utility-owned charging stations on EV adoption? |

Q.

Utility-owned charging stations support reaching a broader group of early adopters by A. instilling trust and confidence through a company where consumers already have a

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relationship and that they consider trustworthy. Consumers will consider the Company's investment and the availability of low-cost services for public EV charging as signals that indicate now is the time to make the transition to electric and that the EV wave has now reached them in their local town. The utility-owned stations will also provide flexibility to make strategic decisions on locations to best serve broader EV adoption across the region. The ability of utility-owned charging stations to expand the availability of public fast charging is expected to significantly accelerate adoption and regional market growth for EVs and charging demand.

- Q. Did you assist Rocky Mountain Power in conducting an analysis to assess how the Company's proposed EVIP would impact the adoption of EVs in Utah?
- A. Yes. I provided a report on adoption forecasts for EVs in Utah resulting from the proposed EVIP and provided estimates for the demand, utilization, and revenue from public direct current fast charging ("DCFC"), which was submitted to the Company on December 29, 2020. I updated the model spreadsheet associated with the report to include minor modifications and additional scenarios in the analysis as part of a data request. The additional scenarios do not alter the conclusions in the study.
- Q. Mr. Robert A. Davis, testifying on behalf of the Division of Public Utilities ("DPU"), questioned your selection of the Bass model. Please explain the Bass model and why you selected that model.
- A. The Bass model has become a well-accepted model for predicting adoption of innovations in the marketplace, and EV adoption is a good candidate to follow this type of market curve. The Bass model represents different patterns of diffusion of innovation

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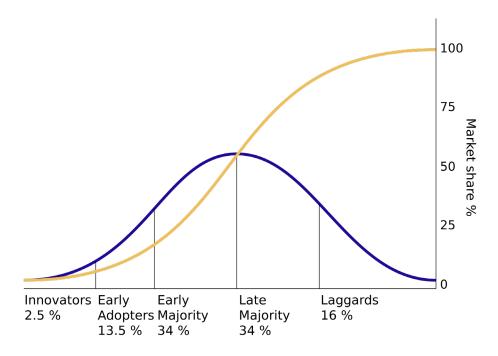
¹ DPU Data Request 4.2 1st Supplemental.

using the p and q variables, and it allows adaptation to include the localized effects of EV chargers on adoption. This was added in our model by combining the Bass model with a Panel Data Regression Model developed by Dr. Ziqi Song at USU.

The regression model considers certain variables involving gasoline price fluctuations, financial incentives, infrastructure availability, and drivers' socio-economic factors and creates weighting factors for these variables. These factors are then incorporated into the EV adoption. The regression model methodology provides various benefits and overcomes some of the limitations of time-series and cross-section studies. Panel data can deal with heterogeneity resulting from the variation of unmeasured explanatory variables that affect the behavior of people in different states.

The Bass model follows an S-curve for the cumulative probability of adoption at a point in time, and can also predict the probability density function for the likelihood of adoption at a point in time as shown below.

Figure 1. S-Curve of Innovation



83 Q. What were your findings?

Our models predict the total combined light and heavy duty EVs in Utah will reach approximately 230,000 vehicles by 2031, which represents an estimated increase of approximately 123,000 vehicles over a scenario without the EVIP.

Table 1. Comparison of EV Adoption with and without EVIP

| 88 | Year | W/out RMP Programs | W/RMP Programs | Increase Due to RMP Programs |
|----|------|-----------------------|-------------------|------------------------------|
| 89 | | (# vehicles) | (# vehicles) | (# vehicles) |
| 90 | 2026 | 36,000 | 63,000 | 27,000 |
| 91 | 2031 | 107,000 | 230,000 | 123,000 |

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A.

- 92 Q. In your opinion, does the proposed EVIP enable significant deployment of 93 infrastructure that supports EV battery charging service and utility-owned 94 vehicle charging infrastructure in a manner that is reasonably expected to 95 increase EV adoption?
- 96 A. Yes. Our models predict that the proposed EVIP will have significant impacts on both
 97 steepening the adoption curve and shifting the major growth portions of the curve
 98 earlier in time. The Company's proposed Program will act like a seed, providing
 99 awareness and instilling confidence in consumers that there will be sufficient charging
 100 infrastructure to warrant the purchase of an EV.

IV. EFFECTS OF UTILITY-OWNED CHARGERS ON MARKET DYNAMICS

Q. What are the impacts of utility-owned charging stations on the EV market?

The primary impact will be growth of the overall market for EV charging by accelerating adoption of EVs in the region. In particular, the additional charging stations and proposed RMP discount will spur growth in EV adoption by instilling confidence in consumers that EVs can meet their needs now without fear of high costs for public fast charging. This is especially important in these early years leading to widespread adoption, when EVs and third-party charging stations will both have a higher cost due to low volumes and utilization. As the Company's Program helps stir new market growth in EVs and charging demand, opportunities will grow quickly for third-party investment into charging infrastructure and EV costs will continue to come down as volumes increase and factory and supply chain capabilities are expanded.

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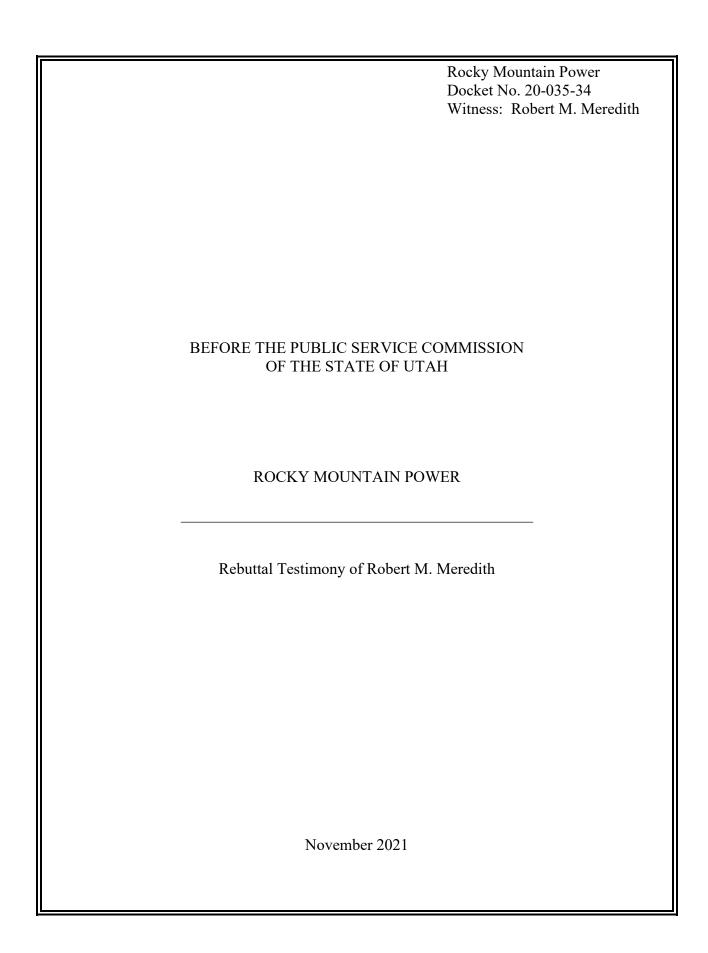
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113 Mr. David Williams, witness for DPU, along with other witnesses questions Q. 114 whether the number of charging stations owned by the Company could discourage 115 third-party investment in charging stations. Do you agree with this assertion? 116 I disagree for the reasons I highlighted above. Based on our model projections, the A. 117 primary impact of the charging stations planned to be owned by the Company will be 118 to accelerate growth in the market demand for EV charging well beyond the chargers 119 made available through the Company. Our models show that during the EVIP, initial 120 chargers will have lower levels of utilization, for example below 20 percent before 121 2025 and below 30 percent before 2028. These early investments by the Company are 122 needed to accelerate market growth and create demand sooner than third-party 123 investments are likely to support during these early years in the adoption curve. 124 Following the Company investments, the number of large (700 kilowatt) fast charging 125 stations needed to support the market in Utah are expected to grow rapidly from around 126 60 before 2030 to over 400 by 2040, even while maintaining high utilization levels well 127 above 30 percent. These high levels of utilization of charging equipment and market 128 growth will motivate significant third-party investment due to the impacts of the 129 Company Program. 130 In your opinion, does the proposed EVIP enable competition, innovation, and 0. customer choice in EV battery charging services, while promoting low-cost 131 132 services for EV battery charging to customers? 133 Yes. As I have stated above, our models predict that the proposed EVIP will A. 134 significantly increase EV adoption and create more demand for EV charging. These 135 impacts will support growth in competition and innovation in the marketplace as the

demand rises along the accelerated adoption curve. The EVIP is expected to be a key 136 137 catalyst to early market growth in EVs in Utah. Without the EVIP, it is expected that growth of EVs in Utah will be delayed, with other states receiving the benefits of early 138 market growth. 139 140 Does this conclude your testimony? Q.

141 Yes. A.



- 1 Q. Are you the same Robert M. Meredith who submitted direct testimony in this
- 2 proceeding on behalf of PacifiCorp d/b/a Rocky Mountain Power ("the Company"
- 3 **or "RMP")?**
- 4 A. Yes.

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5 I. PURPOSE AND SUMMARY OF REBUTTAL TESTIMONY

- 6 Q. What is the purpose of your rebuttal testimony?
- 7 A. The purpose of my rebuttal testimony in this proceeding is to support the Company's 8 proposed Electric Vehicle Infrastructure Plan ("EVIP"), specifically its proposed 9 pricing for service from Company-owned charging stations. I address how the proposed 10 prices comply with the legislative requirements for EVIP and I respond to the testimony 11 of other parties. My rebuttal testimony responds to the direct testimonies of David 12 Williams and Abdinasir M. Abdulle for the Division of Public Utilities ("DPU"), Justin D. Wilson for ChargePoint, Inc ("ChargePoint"), Sara Rafalson for EVgo Services, 13 LLC ("EVgo"), Alex Ware for the Office of Consumer Services ("OCS"), Deborah 14 15 Kapiloff for Western Resource Advocates ("WRA"), and Thomas Kessinger for Utah

II. PRICES FOR COMPANY-OWNED CHARGING STATIONS

- Q. What is your general observation of several of the parties' testimony that is critical
 of the Company's proposed Schedule 60 prices?
- 20 A. While some parties generally support the Company's proposed pricing, a handful of parties' testimony criticizes the proposed prices. Those parties suggest that the rates, particularly the discount for RMP customers, are at odds with the enabling legislation found in Utah Code section 54-4-41 which states that "(t)he commission shall find a

Clean Energy ("UCE").

| 24 | | charging infrastructure program to be in the public interest if the commission finds that |
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| 25 | | the charging infrastructure programenables competition." The thrust of their |
| 26 | | argument is that they believe that the price for RMP customers is set at too low of a |
| 27 | | level, which would stifle competition. |
| 28 | Q. | Please explain why the Company's proposed discount for RMP customers is |
| 29 | | reasonable in order for the Public Service Commission of Utah ("Commission") |
| 30 | | to find EVIP to be in the public interest. |
| 31 | A. | Subsection (4) of Utah Code section 54-4-41 specifies that the Commission shall find |
| 32 | | a charging infrastructure program to be in the public interest if, among other |
| 33 | | requirements, the Commission finds that the charging infrastructure program: |
| 34 35 36 37 38 39 40 41 42 | | (a) increases the availability of electric vehicle battery charging service in the state; (b) enables the significant deployment of infrastructure that supports electric vehicle battery charging service and utility-owned vehicle charging infrastructure in a manner reasonably expected to increase electric vehicle adoption; (d) enables competition, innovation, and customer choice in electric vehicle battery charging services, while promoting low-cost services for electric vehicle battery charging customers. Along with ensuring that the program enables competition, two other key |
| 43 44 | | aspects necessary for the Company's EVIP to be in the public interest are that it |
| 45 | | "reasonably is expected to increase electric vehicle adoption" and that it promotes |
| 46 | | "low-cost services for electric vehicle battery charging customers." If the Company's |
| 47 | | discount for RMP customers were to be rejected or watered down significantly as some |

other parties suggest, those two components of public interest would not be met.

| 49 | Q. | Are the Company's proposed plans for Schedule 60 pricing over the next 10 year |
|----|----|--|
| 50 | | anti-competitive? |

A. No. The Company has laid out a clear plan for how it will bring pricing for its stations in line with the cost of providing this service. Initially, however, it will not know exactly what the cost of providing this service will be until it has some time to gain experience and grow its user base. Electric vehicle ("EV") charging is a relatively limited and nascent industry and charging lower introductory rates is not necessarily at odds with competition. It is fairly common, for example, for a new social media platform or technology service to build up its user base early on and forsake fees or advertisements. This concept is similar to what the Company is proposing for its EVIP pricing. Making its charging stations more affordable earlier with a clearly defined path to self-sufficiency for the program is key its success and the adoption of EVs. Increasing adoption of EVs will support all market players in the long run.

Q. Will the Company's prices stifle competition as some parties suggest?

- A. I don't believe they would. While the Company's proposed prices for RMP customers
 are less than those currently offered by Electrify America, there are a variety of other
 pricing structures available for direct current ("DC") fast charging in Utah. A quick
 look at PlugShare, a free app that is used to search for charging stations, shows the
 following:
 - The charging station at West Jordan Public Works has fast charging for 20 cents per kilowatt-hour ("kWh") plus a \$1.50 session fee with free level 2 charging.
 - The Maverik Station in Wellsville, Utah charges 25 cents per kWh plus a \$2.00 session fee.

The EVgo station at the REI in Salt Lake City, Utah charges \$1.99 per session
 plus 35 cents per minute for non-members and 28 cents per minute for EVgo
 Plus members who pay a \$6.99 per month subscription fee.

- The Kanab Center West charges \$21 per hour for fast charging and 10 cents per kWh for level 2 charging.
- The Frontier Museum in Monticello, Utah, Museum of San Rafael in Castle
 Dale, Utah, Price City Offices in Price, Utah, Ephraim's Restaurant in Garden
 City, Utah, and the Summit County Library in Park City, Utah all have free DC
 fast charging.
- While Electrify America's standard fee is 43 cents per kWh, this price is reduced to 31 cents per kWh with a \$4.00 monthly membership fee.

In summary, there are a variety of pricing models used by charging stations in Utah. Some of them are cheaper for members who pay a monthly fee and some of them are even free. This variety of different pricing models makes it challenging for any comparison to be made to what exactly the "market" prices are for DC fast charging in Utah. While the Company's proposed prices for RMP customers may be cheaper than some stations, they would certainly be more expensive than free. It is indeed striking to note that free DC fast charging stations exist and yet their presence does not appear to be stifling the market. With RMP's plan for a limited deployment of stations, the Company likewise does not believe that its low-cost pricing would hinder the build-out of privately owned charging stations. In fact, the Company believes that its make-ready and incentive programs will continue to drive privately-owned charger deployment alongside a limited number of Company-owned stations.

| 95 | Q. | Why should the Commission find the Company's proposed prices to be in the |
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| 96 | | public interest? |

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Range anxiety is a key barrier to electric vehicle adoption. Recognizing the need for more charging stations across Utah, the Utah Legislature passed, and the Governor signed into law House Bill 396 which allows RMP a path to support the deployment of and help fill gaps for this much-needed infrastructure. The Company's proposed pricing fairly balances the purposes of the legislation to support adoption of EVs and the infrastructure while also recognizing that customers are funding the program through their rates. A customer rate for charging that is four times higher than the price they pay for electricity while customers are also paying a surcharge for the program is not justified. Moreover, the program will only fund a limited number of Companyowned stations while other market players have unlimited opportunities to deploy their services.

III. RESPONSE TO DPU WITNESS MR. WILLIAMS

Please summarize DPU witness Mr. Williams' testimony related to the Company's proposed Schedule 60 pricing.

Mr. Williams argues that the discount on DC fast charging service for RMP customers is not justified and would make it difficult for third-party charging stations to compete. He reasons that the Company, as a monopoly utility, will not have the same incentive to keep costs down, pick profitable locations, and adequately follow industry trends like other providers. If the utility offers prices substantially lower than the "market cost," he claims that other providers will be unable to compete. He opines that rate shock and other adverse consequences will ensue if the discounted rate is transitioned

to cost of service. Finally, he recommends that a 5 cent per kWh discount for RMP customer be used based upon a comparison of what a customer might pay for in the surcharge. I address each of these arguments below.

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Mr. Williams compares how 100 kWh of charging at an Electrify America station would cost \$43 versus \$16 for an RMP customer at a Company-owned charger under proposed pricing. He then concludes that "Electrify America and other third-party charging companies will find it difficult to compete with this discounted price." Do you agree with him?

No. Mr. Williams has no evidence that 43 cents per kWh is in fact Electrify America's cost of doing business. Without more insight into Electrify America's costs and its sales volume, profitability at this price point is unknowable. It is possible that 43 cents is much higher than its cost, or that 43 cents is much lower than what it needs to breakeven at this stage with EV adoption still in its infancy. Interestingly, Electrify America charges the same price at its stations in Utah as it does in California, even though electricity prices are much higher there. Also of note, Electrify America offers a discounted 31 cents per kWh rate for users who pay a \$4 monthly subscription fee. As I noted earlier in my testimony, there are a variety of pricing models for charging service in Utah, including several free fast chargers. What is an actual "market rate" is therefore elusive.

Perhaps the most significant factor in determining a charging station's profitability is its utilization or how often its chargers are getting used. At this stage of

¹ Direct Testimony of DPU witness Mr. William at lines 100-113.

139 EV adoption, I think that it is highly likely that very few stations are making a net profit 140 on charging revenues alone whether they charge 15 cents or 50 cents per kWh. 141 0. Do you agree with Mr. Williams that the Company will not have the same incentive 142 as other providers to keep costs down and will, for the most part, face fewer 143 consequences for any poor market decisions? 2 144 A. No. I believe that over the years, the Company has shown itself to be a prudent operator 145 of its resources and diligent in its pursuit of cost efficiencies. The Company will select 146 an experienced third-party vendor to maintain and operate its stations. Additionally, 147 the program is intended to become self-sufficient over time, which will require the 148 Company to prudently manage the operations of the stations. Given the pre-defined 149 transition to cost of service, the prominence of the legislation calling on the Company 150 to deploy \$50 million, and the importance to the Company of EV adoption in the state 151 of Utah, the stakes are very high for the Company and it has as much of an incentive 152 for its charging service to be as efficient, reliable, and successful as any other provider. 153 Mr. Williams expresses concern that offering too low of a rate may result in rate Q. 154 shock for customers who rely upon those prices to make decisions when the rate 155 transitions to cost of service.³ Does the Company share those concerns? 156 Yes. The Company is likewise concerned that large price changes can be disrupting, A. 157 especially for customers who have relied upon those prices to make decisions. It is for 158 this reason that the Company is proposing a five-year period when rates would have 159 more limited changes so the Company would have some time to build the infrastructure

and grow its user base, and an additional five years for prices to gradually transition to

² Direct Testimony of DPU witness Mr. William at lines 68-72.

³ Direct Testimony of DPU witness Mr. William at lines 153-157.

cost of service. This plan will minimize rate shock and provide a smooth transition to 162 cost of service. The Company plans to communicate to customers and make them 163 aware of the planned transition throughout the program. 164 Mr. Williams shares Questar Gas Company's pricing experience for compressed Q. 165 natural gas ("CNG") for natural gas vehicles ("NGV") as a cautionary tale of rate 166 shock.4 Is the Company setting itself up for a similar scenario to play out here? 167 No. First off, the NGV rate for Questar Gas Company was established in 1989 and A. 168 only had small rate adjustments for 18 years until it was moved 50 percent towards cost 169 of service over six months. This price jump was the gasoline equivalent of moving the 170 price for CNG vehicles from \$0.80 per gallon to \$1.43 per gallon or 79 percent within a short time.⁵ In contrast, the Company's plan calls for a five-year gradual transition 171 172 that would avoid such a sharp change in price. Second, the market for NGV over ten years ago should not be compared to the state of the EV market right now. A very key 173 174 part of establishing a successful business model for charging stations and attaining 175 parity with cost of service is achieving higher levels of station utilization. EV adoption 176 will drive station utilization. EVs right now seem to be at an inflection point where 177 adoption is going to begin to really take hold with recent announcements of major auto 178 manufacturers committing to invest billions of dollars for new models and production facilities.⁶ This is a very different scenario than where NGV's were at during the years 179 180 of 1989 and 2007.

⁴ Direct Testimony of DPU witness Mr. William at lines 157-163.

⁵ In the Matter of the Application of Ouestar Gas Company to Increase Distribution Non-Gas Rates and Charges and Make Tariff Modifications, Docket No. 07-057-13, Order at 35, 40-42 (Dec. 22, 2008).

⁶ See https://plants.gm.com/media/us/en/gm/ev.detail.html/content/Pages/news/us/en/2021/jun/0616-gm.html, https://media.ford.com/content/fordmedia/fna/us/en/news/2021/09/27/ford-to-lead-americas-shift-to-electricvehicles.html, and https://www.cnbc.com/2021/07/08/stellantis-to-invest-35point5-billion-in-evs-and-newtechnologies-by-2025.html for example.

Q. Mr. Williams expresses concerns with relying upon one provider, Electrify 182 America, to set rates and questions whether its pricing truly reflects the "actual 183 market rate."7 Please comment. 184 I think Mr. William's is right that Electrify America may not necessarily represent the A. 185 "market rate." As I noted earlier, there are many different pricing models and levels in 186 the EV charging marketplace. Given this wide assortment of prices and structures and 187 the Company's lack of data on its cost of providing this service at this time, it is not particularly useful to entirely rely on a "market rate" absent accounting for other 188 189 factors. However, the Company needed a starting place from which to base its pricing 190 and it used Electrify America's, since it is a large provider with a straight-forward cents 191 per kWh rate and chargers that were the most like those the Company plans to install. 192 Mr. Williams notes that the Company's 75 percent RMP customer discount is not Q. 193 based upon a particular analysis.8 Is this true? 194 Yes. A 75 percent discount level was used by Company, because in its judgment, this A. 195 produced reasonable and appropriate prices that considered the statutory requirement for the Company to promote "low-cost services," and accounted for the fact that RMP 196 customers would be paying for this infrastructure through their Schedule 198 197 198 surcharge.

⁷ Direct Testimony of DPU witness Mr. William at lines 164-172.

⁸ Direct Testimony of DPU witness Mr. William at lines 114-123.

⁹ Utah Code Ann. § 54-4-41(4)(d).

Q. What analysis does Mr. Williams present to try to justify a much lower discount level?

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A. Mr. Williams makes some assumptions about a typical EV customer and deduces that such a customer would pay \$3.51 more per year in the surcharge to fund EVIP but would save \$172.50 per year in away-from-home charging due to the RMP discount. ¹⁰ He recommends that the Commission require the Company to perform analysis comparing the discount paid to the surcharge received for a typical EV customer as a starting point for determining a discount. He then proposes a much smaller 5 cents per kWh RMP customer discount based upon an "outlier case" with different assumptions where the surcharge paid of \$8.45 would be close to a charging discount of \$8.63.¹¹

Q. Is Mr. Williams' analysis an appropriate way to determine a discount?

No. There is no reason why the discount from a rather high 43 cent per kWh charge should be based upon what a typical customer would pay in surcharges to fund the program. Customers will pay for the cost of the infrastructure through the surcharge and the cost of this infrastructure is largely fixed. It is not reasonable, after paying for this fixed cost, for customers to then be required to pay more than three times their cost of charging at home. The fixed cost of these stations will be the same whether one customer uses them or 10,000 customers use them. A more appropriate comparison could be framed that since customers pay 100 percent of the fixed cost of the program, they should get a 100 percent discount over marginal cost. The Company took a more measured approach than this and proposed a 75 percent discount.

¹⁰ Direct Testimony of DPU witness Mr. William at lines 124-152.

¹¹ Direct Testimony of DPU witness Mr. William at lines 177-185.

¹² Per Attachment A of the Final Order in the 2020 Rate Case, the average residential price is about 10.8 cents per kWh (\$730,195 thousands divided by 6,782,999 MWh). 35 cents divided by 10.8 cents is about 3.24.

While it may be true that only some customers may be able to take advantage of the program and utilize Company-owned chargers to charge their EVs, every customer at least has the opportunity to take advantage of the program. A similar paradigm exists with the Company's energy efficiency programs. All customers pay for energy efficiency and all are eligible to receive incentives. The incentive level that a customer receives is not proportional to the demand-side management ("DSM") surcharge paid. It makes even less sense for EVIP benefits to be tied to the specific surcharge paid than for DSM, since EVIP's costs are largely fixed. Mr. Williams presents the wrong comparison here for justifying the paltry discount level he recommends, and his proposal would compromise the Company's statutory obligation to promote low-cost charging services.

IV. RESPONSE TO DPU WITNESS DR. ABDULLE

Dr. Abdulle recommends that the Company "continuously monitor pricing at Electrify America stations and develop cost information for its own stations and report this information to the Commission on a regular basis over the life of the program for parties to evaluate." ¹³ Do you agree with this recommendation?

The Company will certainly develop cost information for its own charging stations,

The Company will certainly develop cost information for its own charging stations, which it will report through its annual cost of service filings. The Company does not agree to continuously monitor and report on the prices charged by Electrify America or other providers because such reporting would be administratively burdensome and not actionable until the Company makes its first transition towards cost of service in five years. At that time, the Company would present any pricing from other providers

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¹³ Direct Testimony of DPU witness Dr. Abdulle at lines 61-64.

243 available charging stations is readily available online and any party desiring to do such 244 research can do so. 245 Dr. Abdulle calls out that the Company rounded its fast-charging price for non-0. 246 RMP customers down by two pennies from 42 cents to 40 cents per kWh. 14 Why 247 did the Company do this? The Company rounded this charge down to 40 cents to make its pricing easier to 248 A. 249 understand and remember for customers. This is a similar practice to when the 250 Company rounds its customer service charge to the nearest dollar. The Company would 251 prefer to keep its proposed prices but concedes that using either 40 or 42 cents is not a 252 meaningful difference either way and recognizes the DPU's concern. 253 Dr. Abdulle reasons that the Company's discount would provide a strong incentive Q. 254 for RMP customers to charge at Company-owned stations which could pose a 255 barrier to entry for other providers and possibly even drive existing operators out 256 of business. He compares the Company's proposed pricing to predatory dumping. He claims that "(t)his will result in RMP getting monopoly in DC charging stations 257 in Utah." He concludes that the proposed pricing will not promote competition. 15 258 259 How do you respond? 260 A. I disagree that the Company's proposed pricing plan is anti-competitive or akin to 261 predatory dumping. As I discussed earlier, Electrify America is just one provider and 262 there are many others who price fast charging at different levels including some that are free. Additionally, the Company has a plan to purposefully transition to cost of 263

if it uses it to inform its transitionary price changes. Otherwise, the pricing for publicly

¹⁴ Direct Testimony of DPU witness Dr. Abdulle at lines 88-96.

¹⁵ Direct Testimony of DPU witness Dr. Abdulle at lines 103-127.

service over time and will only deploy a limited number of stations. With the Company's limited deployment and its transition to cost of service, there will be ample space for other providers to compete. It would be necessary for the Company to be the dominant player in the market or for it to flood the market with its services for it be engaging in predatory dumping. As described earlier, the Company's strategy behind its pricing is to offer somewhat lower introductory prices now to support EV adoption and utilization of the charging stations. Dr. Abdulle claims that the Company is only able to provide lower prices than other providers because deployment of the stations would be subsidized by retail

customers paying the Schedule 198 surcharge. 16 Do you consider this a subsidy?

274 The HB 396 legislation states that the Company's: A.

> investment in utility-owned vehicle charging infrastructure is prudently made if the large-scale electric utility demonstrates in a formal adjudicative proceeding before the commission that the investment can reasonably be anticipated to... provide the large-scale electric utility's customers significant benefits that may include revenue from utility vehicle charging service that offsets the large-scale electric utility's costs and expenses.

In other words, the expectation is that in the long run, the stations will pay for themselves and indeed bring net benefits for customers as a result of the charging revenue. It is therefore more appropriate to think of RMP's customers as investing in the infrastructure rather than subsidizing it.

Are other providers of EV charging services free from subsidies or outside sources 0. of funding?

287 A. No. Many of the stations in Utah that presently exist took advantage of the Company's 288 Schedule 120 incentives that can provide up to 75 percent of the cost of total charger

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¹⁶ Direct Testimony of DPU witness Dr. Abdulle at lines 128-133.

and installation costs for DC fast charging. Businesses can also take advantage of the Alternative Fuel Vehicle Refueling Property Credit when they file their federal income taxes which is the smaller of 30 percent of the cost or \$30,000.¹⁷ It is also not at all uncommon for outside funding to be provided for building out charging infrastructure. For example, some auto manufacturers have partnered with charging service providers to deploy stations.¹⁸ Additionally, in the case of Electrify America, investment in EV chargers was required per the terms of the settlement in the Volkswagen diesel emissions matter.¹⁹ The fact that RMP customers will fund the infrastructure does not on its face differentiate its competitive position relative to other providers.

Dr. Abdulle states that "there is too much benefit transferred from non-EVIP to

Q. Dr. Abdulle states that "there is too much benefit transferred from non-EVIP to EVIP customers. Essentially, EVIP and non-EVIP customers are two separate classes." Do you agree with his characterization?

No. Dr. Abdulle is trying to imply that there are customers who take advantage of EVIP (i.e., users of the charging stations) and customers who do not and that there is an interclass subsidy. I think it's unhelpful to think of EVIP in those terms. I think it's better to think of EVIP as a program available to any customer on a non-discriminatory basis like the Company's DSM programs. Any customer who gets an EV and charges at one of the Company's stations would get the discount. Further, the Company has plans to measure how revenue for the stations (from RMP and non-RMP customers)

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¹⁷ See https://www.irs.gov/pub/irs-pdf/i8911.pdf.

¹⁸ See https://cheddar.com/media/general-motors-partners-with-evgo-to-bolster-electric-vehicle-presence and https://media.ford.com/content/fordmedia/fna/us/en/news/2019/10/17/ford-introduces-north-americas-largest-electric-vehicle-charting-network.html

¹⁹ See https://www.caranddriver.com/news/a36956207/volkswagen-seeking-investor-electrify-america/

²⁰ Direct Testimony of DPU witness Dr. Abdulle at lines 133-138.

309 long run. 310 As an alternative to the DPU recommended 35 cents per kWh fast charging price 0. 311 for RMP customers, Dr. Abdulle recommends that the Commission could accept 312 the Company's pricing but only if the program were to only last five years and have a two-year transition to cost of service."21 Is this a reasonable trade-off? 313 314 No. Time is needed for the stations to be built and for the Company to gain experience A. 315 before it can begin transitioning to cost of service. Rate shock would also be a big 316 concern if this alternative were approved. A two-year transition would set the Company 317 up to have a similar scenario as what occurred with Questar Gas Company's NGV rate 318 which could result in very negative experiences for customers. 319 Dr. Abdulle notes some confusion about the proposed timing of the recovery of Q. 320 **EVIP through Schedule 198.**²² **Please respond.** 321 The Company's proposed recovery of EVIP is \$5 million per year over ten years. At A. 322 the five-year midpoint, when other aspects of the program are up for evaluation, the 323 Company will evaluate how recovery and net spending have tracked as well as any 324 remaining future investments/expenses and will recommend any changes as needed at 325 this time. The Company believes that this longer recovery period is preferable because 326 it will minimize the rate impact on customers.

stacks up to cost of service and has a plan for those stations to stand on their own in the

²¹ Direct Testimony of DPU witness Dr. Abdulle at lines 139-155.

²² Direct Testimony of DPU witness Dr. Abdulle at lines 203-212.

V. RESPONSE TO CHARGEPOINT WITNESS MR. WILSON

Q. How do you respond to Mr. Wilson's contention that the Company's prices will undercut prices the competitive market is able to offer?²³

Mr. Wilson provides no evidence for what the competitive market is *able* to offer. We know how some providers are pricing their service by examining public information, such as that which can be found on PlugShare. As I stated earlier, this includes a wide array of different pricing levels. Also, public charging has been the recipient of different subsidies and some of the different providers have received outside sources of funding. What the competitive market is able to offer and what its actual pricing is could be two different things. The Company has laid out a very transparent plan for measuring how its pricing will compare to the cost of providing service, but such information is not presently available for other providers.

Q. Do you agree with Mr. Wilson that the Company's rates are so low that it will incentivize customers to charge away from home?²⁴

No. At 10 cents per kWh for off-peak charging plus a \$1 session fee, a 50 kWh session would cost about 12 cents per kWh and a 100 kWh session would cost about 11 cents per kWh. This is basically right at the level of the Company's second tier energy charges which are 11.9733 cents and 10.5959 cents for summer and winter energy, respectively. A customer could pay even less for energy if charging during off-peak on a time-of- use rate, which could include Schedule 2 or Schedule 2E, if the Commission approves continuing the rate after its initial pilot period. While the rates are similar, it is important to note that there is a significant convenience factor that weighs towards

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²³ Direct Testimony of ChargePoint witness Mr. Wilson at lines 649-653 and 924-935.

²⁴ Direct Testimony of ChargePoint witness Mr. Wilson at lines 936-976.

350 more convenient than waiting at a charging station and waiting for the charge to complete. Excessive DC fast charging can also cause a vehicle's battery to degrade 351 352 quicker over time, which also encourages a customer, if able, to charge at home. 353 Mr. Wilson notes that the Company's proposed prices for Level 2 charging are Q. 354 "significantly less than the rates residential customers pay at their homes." 25 Do 355 you think this is problematic or will lead customers to choose to charge away from 356 their home? 357 No. I agree that the Company's prices for Level 2 charging are less than residential A. 358 rates. However, the convenience factor will prevent most customers from using Level 2 charging to save money, since Level 2 charging takes significantly longer than 359 360 DC fast charging. It is also important to note that there are many locations where 361 Level 2 charging is free, and the Company does not plan on a significant build-out of 362 Level 2 chargers with DC fast charging being the main attraction at its charging 363 stations. 364 Mr. Wilson contends that a charging station would be most likely to take service Q. 365 from the Company on Schedule 6A and that it would not be able to purchase 366 electricity from the Company for less than the Company's rates for Company-367 owned charging until those stations got to a 30 percent load factor.²⁶ Do you agree 368 that charging stations will most likely utilize Schedule 6A? 369 No. Schedule 6A provides a good opportunity for very low utilization customers to Α. 370 pay less for demand on this time-of-use option. This can be a great fit for separately

at-home charging for customers. If a customer can charge from home, that is likely

²⁵ Direct Testimony of ChargePoint witness Mr. Wilson at lines 936-976.

²⁶ Direct Testimony of ChargePoint witness Mr. Wilson at lines 900-923.

371 metered charging stations that might be located in more remote locations. However, it 372 is more typical, especially in denser metro areas, for DC fast chargers to be anchored 373 to a large retail location like a grocery or big box store with the chargers behind the 374 store's meter. If charging doesn't coincide with the store's peak kW usage, the cost of 375 electricity for the chargers can be much less than on Schedule 6A. 376 Q. Do you agree with Mr. Wilson that the Company's benchmarking comparison upon which it bases its pricing should consider more than just Electrify America?²⁷ 377 378 A. No. As I stated in my response to Mr. Williams and Dr. Abdulle, Electrify America has 379 stations that are the most comparable to the ones the Company plans to install and 380 charges in a straightforward way. Other providers use different pricing structures for 381 which a direct comparison is challenging. 382 Is Mr. Wilson correct in stating that the Company provided no justification for Q. 383 proposed 75 percent discount for RMP customers? No. The justification for the 75 percent discount for RMP customers is that it produces 384 A. 385 prices that compare favorably to gasoline and also reflects the fact that customers are 386 paying for the cost of the stations through a surcharge on their bill. 387 Q. Is it true as Mr. Wilson claims that that the Company's five cents per kWh off-388 peak credit lacks support?²⁸ No. As I stated in my direct testimony, five cents represents the difference between the 389 A. 390 average Energy Imbalance Market ("EIM") three cent per kWh price during off-peak

²⁷ See Direct Testimony of ChargePoint witness Mr. Wilson at lines 879-885.

²⁸ See Direct Testimony of ChargePoint witness Mr. Wilson at lines 891-895.

392 with the three cents per kWh value to yield the marginal cost of service for Schedule 6.29 393 Mr. Wilson claims that "(u)nless a site host offers DC fast charging as a 'loss 0. leader,' these prices will be impossible for site hosts to compete with."30 Does Mr. 394 395 Wilson provide any support for this claim? 396 A. No. Mr. Wilson provides no support for this claim. At this nascent stage of the industry, 397 it is likely that most charging stations are and will be unprofitable until EV adoption accelerates further, despite all of the subsidies that are available. Fortunately, I think 398 that this will all change in the intermediate term as EVs become more mainstream and 399 400 the business model for public charging services becomes more viable. 401 Q. Do you agree with Mr. Wilson that "the long-term effects of RMP undercutting 402 the market will be detrimental to EV drivers and RMP's customers"?³¹ 403 No. With the volume of EVs that are likely coming, there will be more than sufficient A. 404 need for both the Company's limited deployment of charging stations and stations from 405 other providers. Also, the price for Company-owned charging service for RMP 406 customers would not stay at that level under the Company's proposed plan, but will 407 transition to cost of service over time. It could actually be argued that the Company's 408 pre-defined transition to cost of service puts it in more of a competitively risky position 409 than other providers.

hours and an eight cent per kWh on-peak price that would be required in conjunction

²⁹ Direct Testimony of Company witness Mr. Meredith at lines 117-131.

³⁰ Direct Testimony of ChargePoint witness Mr. Wilson at lines 898-899.

³¹ Direct Testimony of ChargePoint witness Mr. Wilson at lines 928-931.

411 pricing for public charging in its service territory annually to benchmark its price 412 against an average.³² Would such a survey be a workable way to benchmark the 413 Company's prices? 414 No. As I mentioned in response to Dr. Abdulle, benchmarking all stations would be A. 415 administratively burdensome and not actionable. A comparison of different pricing 416 structures and levels could be useful around the time of the first transition in five years. 417 Q. Mr. Wilson makes the point that DC fast charging can be inelastic with drivers 418 simply needing to get back on the road, which can result in time of use pricing 419 being ineffective.³³ Please comment. 420 I agree with Mr. Wilson that drivers who are on a trip will likely not modify when they A. 421 charge in response to time-of-use pricing. Public charging, however, can make it 422 possible for people who live in multi-family dwellings, renters who cannot change the 423 wiring in their home, or others who may not have a dedicated place for parking to be 424 able to get access to charging. For these customers, off-peak charging may be an 425 important way to lower the cost of their everyday driving. 426 Q. Please respond to Mr. Wilson's recommendation that time of use pricing be 427 accomplished with a 5 cent per kWh on-peak adder instead of a 5 cent per kWh off-peak credit to mitigate "anticompetitive effects."34 428 429 A. I disagree with Mr. Wilson that the Company's proposed pricing is anticompetitive. I 430 do recognize that the Commission may ultimately order the Company to use prices at

Mr. Wilson recommends that the Commission require the Company to survey

³² Direct Testimony of ChargePoint witness Mr. Wilson at lines 977-985.

410

Q.

³³ Direct Testimony of ChargePoint witness Mr. Wilson at lines 986-993.

³⁴ Direct Testimony of ChargePoint witness Mr. Wilson at lines 994-1002.

higher levels than what it has proposed. Mr. Wilson's specific recommendation to swing the credit to a charge would effectively increase the Company's pricing by five cents per kWh. Regardless of the pricing level selected by the Commission, I recommend that time-of-use pricing be accomplished by labeling in the tariff the onpeak price as the base and having an incremental off-peak discount credit. Expressing the prices in this way is a simple approach and enhances the customer's experience.

What is your reaction to Mr. Wilson's recommendation that the discount for RMP customers be set at no more than 10 percent with a glide path where the discount is reduced by one percent per year over ten years?

I disagree with his proposal for all the same reasons I have stated earlier. The Company's proposed discount will promote low-cost charging services and help EV adoption, consistent with the statute. It is also appropriate for customers to receive a significant discount since they are funding the program through the surcharge. Mr. Wilson's proposed discount would not at all be meaningful to customers and would

not reflect the significant contribution they have made through Schedule 198 rates.

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³⁵ Direct Testimony of ChargePoint witness Mr. Wilson at lines 1003-1012.

VI. RESPONSE TO EVGO WITNESS MS. RAFALSON

A.

- Q. Ms. Rafalson argues that private sector providers "must charge a price that reflects all their development and maintenance costs," but utilities can "charge a lower price because they can recover a large portion of their costs through ratepayers, even those not charging at their EV stations." She argues that the Company's proposed prices therefore create an uneven playing field. ³⁶ Please respond.
 A. Ms. Rafalson provides no evidence that other providers must pay a price reflecting all their development and maintenance costs nor that the Company has a unique advantage
- Q. Do you agree with Ms. Rafalson's recommendation for Schedule 60 rates to "consider the pricing of all privately-owned chargers in its service territory, not only one provider, and should take into account all costs, including operations and maintenance costs"?³⁷

because of its funding by ratepayers given the various subsidies and funding that are

As I stated earlier in my response to Mr. Williams, Dr. Abdulle and Mr. Wilson, it is challenging to put all of pricing for different charging stations on the same basis given their different structures with discounts for members, charging by the hour, and even free charging at some stations. Basing the Company's prices on Electrify America is reasonable since it is a major provider whose stations are the most like the ones the Company intends to develop and who expresses its prices in a simple cents per kWh format. The Company's pricing will take into account all costs including operations

available to non-utility owners.

³⁶ Direct Testimony of EVgo witness Ms. Rafalson at page 12.

³⁷ Direct Testimony of EVgo witness Ms. Rafalson at page 20.

469 separate class in the cost of service study. 470 VII. RESPONSE TO OCS WITNESS MR. WARE 471 Mr. Ware expresses concern about "the lost opportunity if there is not a 0. 472 continuation of Schedule 2E or a replacement time-of-use (TOU) rate".38 Do you 473 share his concern? 474 Yes. Time-of-use pricing can be a very important way to mitigate the impact that A. 475 incremental charging load can have on the grid. While the Company's evaluation of 476 Schedule 2E, which is due at the end of the year, is not completed yet I am hopeful that 477 continuation of Schedule 2E will be approved in some form. 478 Q. Do you agree with Mr. Ware's claims that the Company did not follow through on 479 its commitment to build a website that includes education on appropriate charging 480 behavior?39 No. The Company did have information about its Schedule 2E Electric Vehicle Time 481 Α. 482 of Use program, but it took this information down after Schedule 2E was closed to new 483 service at the end of 2020. Please refer to Exhibit RMP (RMM-1R) for the Schedule 2E content that the Company had on its website. The Company has also recently 484 485 revamped its website content on time of use across all its states and has a promotional 486 video that discusses the benefits of time-of-use for customers. See 487 https://www.rockymountainpower.net/savings-energy-choices/time-of-day.html.

and maintenance as part of including service from Company-owned stations as a

 38 Direct Testimony of OCS witness Mr. Ware at lines 162-181.

³⁹ Direct Testimony of OCS witness Mr. Ware at lines 209-216.

488 Q. Mr. Ware recommends that if Schedule 120 residential incentives are continued, 489 there should be an educational component to inform customers of the best times to charge their vehicles to avoid impacts to the grid.⁴⁰ Please comment. 490 491 I agree. If Schedule 2E is approved in some form and/or there is a successor time-of-A. 492 use program, participation should be required for at least a year for that customer to 493 receive a residential Schedule 120 incentive if residential Schedule 120 incentives are continued. 494 495 Mr. Ware calls out that Special Condition 1 of proposed Schedule 60 should have Q. 496 specific terms and prices for an idling penalty and that the Company does not have 497 authority to institute a penalty absent Commission approval.⁴¹ Why was the 498 Company's Special Condition 1 intentionally vague about the specific pricing and 499 terms of the penalty? 500 In the Company's proposed Schedule 60 tariff, Special Condition 1 did not contain any A. 501 details on any penalties for idling, because the Company has not yet conducted a 502 request for proposals ("RFP") and selected a vendor. The Company therefore does not 503 know yet what types of penalties the vendor it ultimately selects will be capable of 504 billing. I agree with Mr. Ware's concern though and recommend that Special Condition 505 1 be re-worded, as he suggests, to read, "Customers are expected to make a charging 506 station available immediately following session completion. If cause arises, the

Company may seek approval from the Commission to institute a penalty policy." After

the Company selects a vendor, it will request approval of any specific idling penalty

⁴⁰ Direct Testimony of OCS witness Mr. Ware at lines 290-310.

once it knows the vendor's capabilities.

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⁴¹ Direct Testimony of OCS witness Mr. Ware at lines 334-358.

| 510 | Q. | Mr. Ware also recommends that for the first five years of the program that | | |
|-----|----|--|--|--|
| 511 | | Schedule 60 prices would change in tandem with all price changes, not just base | | |
| 512 | | price changes. ⁴² Do you agree? | | |
| 513 | A. | Yes. I think that Mr. Ware's recommendation makes sense. He also recommends | | |
| 514 | | softening the language describing how prices would change each year since Special | | |
| 515 | | Condition 6 notes that the Company may request to modify rates as circumstances arise. | | |
| 516 | | The Company agrees to modify Special Condition 5, as Mr. Ware suggests, to read, | | |
| 517 | | "For the first five years of the Electric Vehicle Incentive Program, the Company intends | | |
| 518 | | to request to change prices listed on this tariff by the same percentage as retail price | | |
| 519 | | changes rounded to the nearest cent." | | |
| 520 | Q. | Finally, Mr. Ware recommends some clarifying changes to Special Condition 6 of | | |
| 521 | | Schedule 60.43 Do you agree with those changes? | | |
| 522 | A. | Yes. The Company agrees to modify Special Condition 6 as Mr. Ware suggests. | | |
| 523 | | VIII. RESPONSE TO WRA WITNESS MS. KAPILOFF | | |
| 524 | Q. | Ms. Kapiloff recommends that residential incentives be tied to participation in | | |
| 525 | | time-of-use pricing.44 Please comment. | | |
| 526 | A. | I agree with Ms. Kapiloff. As I responded to Mr. Ware, if Schedule 2E is approved in | | |
| 527 | | some form and/or there is a successor time of use program, participation should be | | |
| 528 | | required for at least a year for residential customers who receive Schedule 120 | | |
| 529 | | incentives, if residential Schedule 120 incentives are continued. | | |

Direct Testimony of OCS witness Mr. Ware at lines 360-392.
 Direct Testimony of OCS witness Mr. Ware at lines 360-392.
 Direct Testimony of WRA witness Ms. Kapiloff at lines 365-374.

| 531 | | modified so that an extension be made until the Commission makes a final decision |
|-----|----|---|
| 532 | | as to the continuation of an EV-charging time-of-use rate instead of six months as |
| 533 | | the Company proposes? ⁴⁵ |
| 534 | A. | The Company takes no position on this recommendation. I believe that six months will |
| 535 | | be sufficient time for stakeholders to review the Schedule 2E final report and for the |
| 536 | | Commission to make a decision. |
| 537 | Q. | Do you agree with Ms. Kapiloff's suggestion for the Schedule 60 glidepath to cost |
| 538 | | of service to begin after two years and take place over an eight-year period? ⁴⁶ |
| 539 | A. | No. While I appreciate Ms. Kapiloff's desire to have the transition occur quicker to |
| 540 | | promote the goal of enabling competition and avoid users gaining a sense of |
| 541 | | entitlement, I am concerned that two years will not be enough time. If Ms. Kapiloff's |
| 542 | | suggested glidepath were approved, the first transition price change would be based |
| 543 | | upon the data in the cost of service study for the first year of the program. The |
| 544 | | Company will likely just be getting started in its first year and may have very few |
| 545 | | stations installed and a low level of usage. I do not think it would be wise to change |
| 546 | | Schedule 60's prices based upon this first cost of service study. |
| 547 | Q. | Ms. Kapiloff recommends that any transitionary price increase be applied to on- |
| 548 | | peak charges. ⁴⁷ Please comment. |
| 549 | A. | I do not think the specific application of transitionary price increases to different |
| 550 | | components should be determined at this time, since cost of service data and billing |

What is your opinion of Ms. Kapiloff's recommendation that Schedule 2E be

Q.

⁴⁵ Direct Testimony of WRA witness Ms. Kapiloff at lines 384-406. ⁴⁶ Direct Testimony of WRA witness Ms. Kapiloff at lines 589-603. ⁴⁷ Direct Testimony of WRA witness Ms. Kapiloff at lines 618-644.

determinants for Schedule 60 are unavailable. It may be reasonable to apply a greater increase to on-peak charges to encourage better utilization of the system but applying the entire increase to on-peak may be challenging if there are substantially less units over which to spread this cost. It is more appropriate to make such determinations closer to the time of the first transition price change.

IX. RESPONSE TO UCE WITNESS MR. KESSINGER

- Q. Mr. Kessinger emphasizes the importance of stakeholder engagement on Schedule 60 prices for Company-owned charging service.⁴⁸ Please comment.
- 559 A. I generally agree with Mr. Kessinger that stakeholder engagement is important and 560 often leads to better outcomes for customers as different perspectives are considered.
 - Q. Mr. Kessinger calls out that in my direct testimony I describe the first five years of the plan as having "greater pricing stability... subject to limited adjustments or modifications if warranted" and then makes the comment that "(a) determination of whether adjustments or modifications are warranted necessitates stakeholder engagement." Do you agree?
 - A. In the initial years prior to transitioning to cost of service, the Company intends for changes to Schedule 60 pricing to be applied rather mechanically with price changes following the average change in price for its retail customers. Because of rounding, it is possible that by following this logic there may be years when no price change is warranted. I agree though with Mr. Kessinger that stakeholder engagement should occur if the Company requests some deviation from this plan during the initial period.

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⁴⁸ Direct Testimony of UCE witness Mr. Kessinger at lines 263-281.

⁴⁹ Direct Testimony of UCE witness Mr. Kessinger at lines 271-281.

573 transitions to cost of service. 574 Mr. Kessinger specifically questions the \$1.00 session fee as requiring greater 0. 575 stakeholder engagement because he is concerned that the fee may disincentivize usage and he also desires clarity on "when, why, or where session fees should be 576 included."50 How do you respond? 577 578 I believe that my direct testimony as well as the Company outreach prior to filing A. 579 already have provided this information. For most customers, one dollar is a fairly small 580 amount to pay which the Company believes will not disincentive usage. At the same 581 time, the Company believes that having a fixed element of the pricing is important to 582 send appropriate price signals for any card-based transaction fees that a vendor may 583 impose and to also reflect some of the fixed costs of providing this service. The 584 Company believes that session fees should apply to all sessions from Company-owned 585 charging stations including DC fast and Level 2 charging for RMP customer and non-586 RMP customer users. 587 Mr. Kessinger recommends tying residential Schedule 120 incentives to a time of Q. 588 use rate as soon as one is available.⁵¹ Do you agree? 589 Yes. As I responded to Mr. Ware and Ms. Kapiloff, if Schedule 2E is approved in some A. 590 form and/or there is a successor time of use program, participation should be required 591 for at least a year for residential customers who receive Schedule 120 incentives, if

Stakeholders should also be engaged prior to making the first price change that

⁵⁰ Direct Testimony of UCE witness Mr. Kessinger at lines 263-270.

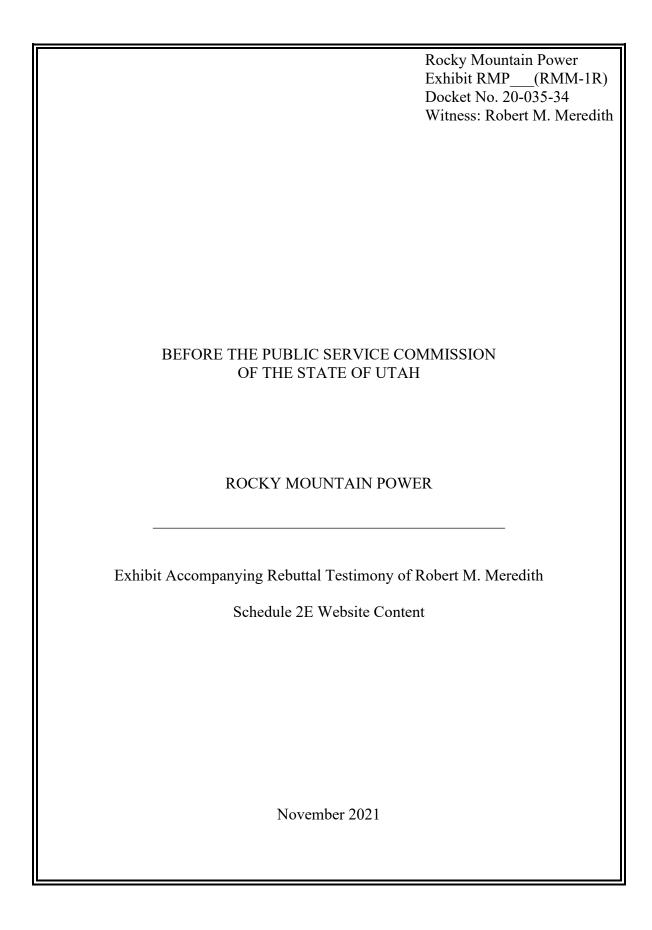
residential Schedule 120 incentives are continued.

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⁵¹ Direct Testimony of UCE witness Mr. Kessinger at lines 326-335.

| 593 | Q. | Mr. Kessinger recommends that an idling-fee be determined by the Commission. | | |
|-----|----|--|--|--|
| 594 | | Do you agree? | | |
| 595 | A. | Yes. The Company agrees to file with the Commission for approval of proposed | | |
| 596 | | modifications to the language in Schedule 60 as Mr. Ware suggested and request a more | | |
| 597 | | specific idling-fee with the Commission after it understands the billing capabilities of | | |
| 598 | | the vendor it selects. | | |
| 599 | | X. CONCLUSION | | |
| 600 | Q. | Do you have an exhibit containing changes that you agreed to for proposed | | |
| 601 | | Schedule 60? | | |
| 602 | A. | Yes. Please refer to Exhibit RMP(RMM-2R) for an updated version of proposed | | |
| 603 | | Schedule 60. | | |
| 604 | Q. | Please summarize your rebuttal testimony. | | |
| 605 | A. | The Company's proposed prices and planned transition to cost of service are just, | | |
| 606 | | reasonable and in the public interest. They will ensure a positive experience for RMP | | |
| 607 | | customers and will help advance electric vehicle adoption in the state of Utah. | | |
| 608 | Q. | Does this conclude your rebuttal testimony? | | |
| 609 | A. | Yes. | | |

⁵² Direct Testimony of UCE witness Mr. Kessinger at lines 350-366.



ROCKY MOUNTAIN POWER

OUTAGES & SAFETY

SAVINGS & ENERGY CHOICES

Q

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♥Withess: Robert M. Meredith

Utah energy rate options

< Back to electric vehicles

MY ACCOUNT

If you drive a plug-in electric vehicle, you can enroll in one of two new time-of-use rate options. Under these options, the price you pay for electricity depends on

If you charge your car and use other equipment during off-peak hours, you may save money on your bill. Plus, qualifying customers who participate for a year earn a \$200 incentive.



Qualifications

- Utah residential customers who own plug-in electric vehicles
- Provide a copy of your DMV registration
- Not participating in net metering or Subscriber Solar programs
- · Your account meets payment/credit criteria
- One-year participation commitment
- $\bullet \ \ All \ of your \ energy \ use for your \ home \ will \ be \ subject \ to \ time \ varying \ rates not \ just \ your \ plug-in \ electric \ vehicle$

Peak hours

You can save money by significantly reducing your energy use on weekdays between:

- All months of the year: 3 p.m. to 8 p.m.
- · October through April: 8 a.m. to 10 a.m.

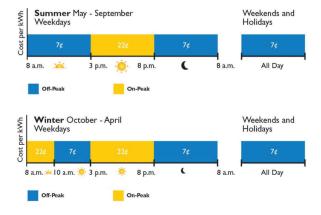
You'll pay lower prices on all other off-peak hours. Some holidays that fall on weekdays are also considered off-peak hours all day.

Choose between two rate plans

RATE OPTION 1

Pricing: 22.2755¢ per kilowatt-hour on-peak and 6.7881¢ per kWh off-peak

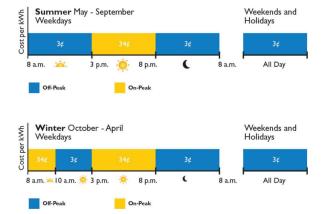
Summer and winter charts (rates are rounded slightly below)



RATE OPTION 2

Pricing: 34.3753¢ per kWh on-peak and 3.4003¢ per kWh off-peak

Summer and winter charts (rates are rounded slightly below)



Guarantee

Your energy costs could be higher under the time-of-use rate options. We will, however, guarantee that your energy charges won't be more than 10 percent higher than they would have been on standard residential rates for your first year of enrollment. These options are best suited for customers who can use most of their electricity during lower cost, off-peak periods.

FAQ

| Does my whole home need to be on time-of-use or can I have car charging only on time-of-use? | > |
|--|---|
| How do I get an electronic copy of my DMV registration? | > |
| What are the benefits? Why should I enroll? | > |
| want to install a Level 2 charger at home. Are there incentives available? | > |

Sign up or learn more

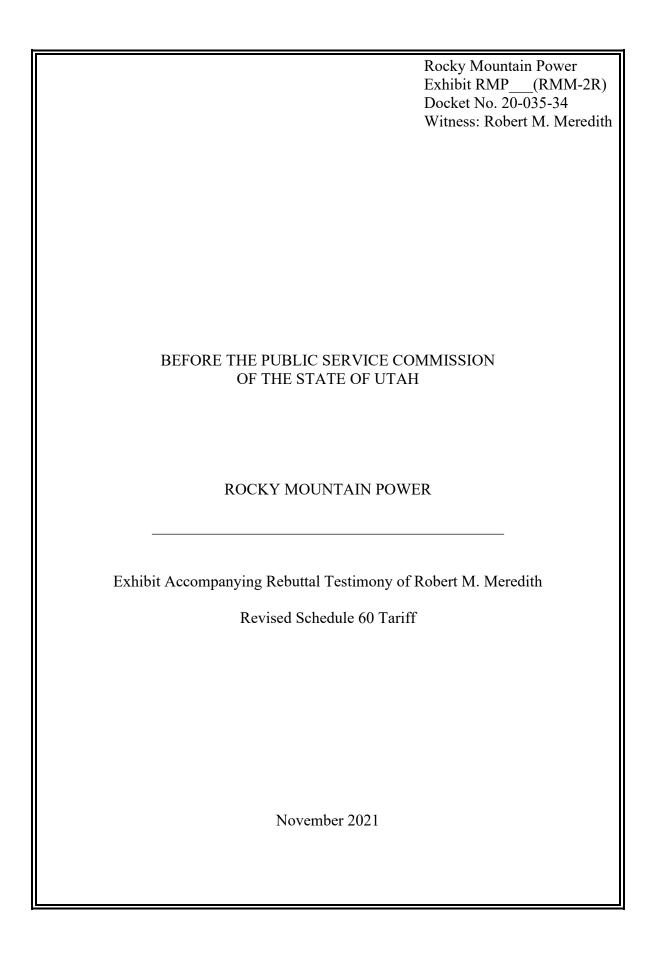


Questions? Email us at ev@rockymountainpower.net.

Rocky Mountain Power
Exhibit RMP___(RMM-1R) Page 3 of 3
Docket No. 20-035-34
Witness: Robert M. Meredith

Yes, please see charging equpiment incentives.

| Does my whole home need to be on time-of-use or can I have car charging only on time-of-use? | < |
|--|-----|
| Your whole home needs to be on time-of-use for this program. | |
| How do I get an electronic copy of my DMV registration? | < |
| To make an electronic copy of your DMV registration, you can scan the document to PDF or take a picture of it on your phone. | |
| What are the benefits? Why should I enroll? | < |
| With this program, you have the potential to save money on your bill. In addition, we will give you \$200 to enroll for a year. Time-of-use options help customers become more aware of when they're using energy to avoid peak times when the cost for electricity is more expensive to generate and purchase. These options have the potential to keep costs down for all customers. This is a limited term pilot for only about 1,000 customers. We are hoping to learn from our customers who charge electric vehicles so we can develop rate options that support off-peak charging and create a framework for the potential growth of electric vehicles in the future. I want to install a Level 2 charger at home. Are there incentives available? | · < |
| | |





P.S.C.U. No. 51

Original Sheet No. 60.1

ROCKY MOUNTAIN POWER

ELECTRIC SERVICE SCHEDULE NO. 60

STATE OF UTAH

Company Operated Electric Vehicle Charging Station Service

AVAILABILITY: In all territory served by the Company in the State of Utah

APPLICATION: To electric vehicle charging service provided from Company operated electric vehicle charging stations.

BILLING: Any individual using Company operated electric vehicle charging stations for the purpose of recharging the battery of an electric vehicle shall pay both an Energy Charge and a Session Fee and Energy Charge as described below.

| | Energy Charge | |
|-------------------|------------------|-----------------|
| | Non-RMP Customer | RMP Customer |
| DC Fast Charging: | \$0.40 per kWh | \$0.15 per kWh |
| Level 2 Charging: | \$0.08 per kWh | \$0.08 per kWh |
| Off-Peak Credit: | -\$0.05 per kWh | -\$0.05 per kWh |
| | Session Fee | |
| | \$1.00 | |

TIME PERIODS:

On-Peak: October through May inclusive

8:00 a.m. to 10:00 a.m., and 3:00 p.m. to 8:00 p.m., Monday through Friday,

except holidays.

June through September inclusive

3:00 p.m. to 8:00 p.m., Monday through Friday, except holidays.

Off-Peak: All other times.

Holidays include only New Year's Day, President's Day, Memorial Day, Independence Day, Pioneer Day, Labor Day, Thanksgiving Day, and Christmas Day. When a holiday falls on a Saturday or Sunday, the Friday before the holiday (if the holiday falls on a Saturday) or the

Issued by authority of Report and Order of the Public Service Commission of Utah in Docket No. 20-035-04

FILED: November 4, 2021 EFFECTIVE: January 1, 2022

Rocky Mountain Power Exhibit RMP___(RMM-2R) Page 2 of 2 Docket No. 20-035-34 Witness: Robert M. Meredith



P.S.C.U. No. 51

Original Sheet No. 60.2

Monday following the holiday (if the holiday falls on a Sunday) will be considered a holiday and consequently Off-Peak.

SPECIAL CONDITIONS:

- 1. Customers are expected to make a charging station available immediately following session completion. If cause arises, the Company may seek approval from the Commission to institute a penalty policy.
- 2. Operation, repair and maintenance of electric vehicle charging stations on this rate schedule will be the responsibility of the Company.
- 3. Inoperable electric vehicle charging stations will be repaired as soon as reasonably possible, during regular business hours or as allowed by Company's operating schedule and requirements, provided the Company receives notification from a Consumer or a member of the public by notifying Rocky Mountain Power's customer service (1-888-221-7070).
- 4. The Company may at its discretion install, relocate, modify, or remove electric vehicle charging stations. Potential modifications to Company operated electric vehicle charging stations may include adding, removing, or changing electric vehicle supply equipment available for charging service.
- 5. For the first five years of the Electric Vehicle Incentive Program, the Company intends to request to change prices listed on this tariff by the same percentage as retail price changes rounded to the nearest cent.
- 6. The Company may at its discretion file a request with the Commission to change rates on this schedule as the need arises.
- 7. From the sixth to the tenth years of the Electric Vehicle Incentive Program, price listed on this tariff shall transition to cost of service.

Issued by authority of Report and Order of the Public Service Commission of Utah in Docket No. 20-035-04

FILED: November 4, 2021 EFFECTIVE: January 1, 2022