



## **Filing Receipt**

**Filing Date - 2024-02-20 03:12:00 PM**

**Control Number - 54614**

**Item Number - 45**

**P.U.C. DOCKET NO. 54614  
SOAH DOCKET NO. 473-24-04312**

<b>APPLICATION OF EL</b>	<b>§</b>	
<b>PASO ELECTRIC COMPANY</b>	<b>§</b>	<b>STATE OFFICE OF</b>
<b>FOR APPROVAL OF ITS TEXAS</b>	<b>§</b>	<b>ADMINISTRATIVE HEARING</b>
<b>ELECTRIC VEHICLE -READY</b>	<b>§</b>	
<b>PILOT PROGRAMS AND TARIFFS</b>	<b>§</b>	

**DIRECT TESTIMONY**

**OF**

**JARED BALLEW**

**ON BEHALF OF EV.ENERGY CORP**

**February 20, 2024**

**I. Introduction and Summary of Recommendations**

**Q: Please state your name.**

A: My name is Jared Ballew.

**Q: By whom are you employed and in what position?**

A: I am the US Policy Director at EV.ENERGY CORP (ev.energy).

**Q: Please describe your current role and your relevant professional experience.**

A: In my current role, I lead ev.energy's regulatory and policy efforts across the United States. I primarily engage on behalf of ev.energy at utility regulatory commissions, state legislatures, and other regulatory agencies to promote public policies that maximize the benefits of electric vehicle (EV) charging, such as managed charging (V1G) and vehicle-to-grid (V2G) programs, and advance best practices within the electric vehicle charging industry.

My relevant professional experience appears in my CV, which is attached as Attachment JB-1.

**Q: Please describe ev.energy.**

A: ev.energy is an industry-leading software platform for EV grid integration, with over five years of experience administering more than a dozen managed EV programs across the US – including SmartCharge New York, the country's largest managed charging program – as well as dozens of additional programs across the UK, Europe, and Australia. ev.energy provides an end-to-end solution for utilities to directly connect to residential, commercial, and fleet EVs through a broad suite of Application Programming Interfaces (APIs), utilizing a hardware-agnostic platform that allows for customer participation through either

1 networked electric vehicle supply equipment (EVSE) or vehicle telematics. Through our  
2 APIs with dozens of auto original equipment manufacturers (OEM) and EVSE brands,  
3 ev.energy's software provides coverage for the vast majority of light-duty EVs in Texas.

4 To deliver high-performing and cost-effective managed charging programs for our  
5 utility partners, ev.energy connects to the vehicle or EVSE to obtain charging data and can  
6 utilize these connections to deliver active load control for the purposes of vehicle-grid  
7 integration. Specifically, ev.energy can obtain one or multiple signals from a utility  
8 including time-of-use rate structures, localized load feeds or thermal inputs from a  
9 distributed energy resource management system (DERMS) platform, bulk system demand-  
10 response dispatches, and/or renewable energy generation forecasts. ev.energy's algorithm  
11 can use these signals to schedule, turn on/off, and/or throttle EV charging in order to  
12 optimize load at both the network and local distribution levels while still ensuring the  
13 customer's vehicle is charged by the time they need it. Over 95% of EV drivers on our  
14 platform adhere to managed charging each day, which we achieve through an award-  
15 winning mobile app or mobile-friendly web portal that can be co-branded for the utility  
16 and provides the customer with transparency and convenient control over their EV charging  
17 schedule, consumption/costs, battery level and health, and the ability to opt out of managed  
18 charging events if needed.

19 Our software helps utilities administer a diverse range of managed-charging  
20 program designs around one or multiple goals, including:

- 1       ● Reliable off-peak load shifting: EPRI has verified our ability to shift 80-90% of EV  
2       charging to off-peak hours with Ameren across Missouri and Illinois;<sup>1</sup>
- 3       ● Meaningful DR curtailment: With a customer opt-out rate of less than 2% during the  
4       summer 2023 season, we were able to deliver over 1 kW of load reduction per EV to  
5       the United Illuminating Company of Connecticut;<sup>2</sup>
- 6       ● Renewable generation alignment: Administering programs such as Silicon Valley  
7       Clean Energy's GridShift program, ev.energy shifted an average of 42% of EV charging  
8       to hours of low carbon intensity;<sup>3</sup>
- 9       ● EV Charging Subscription Rate Programs: Our platform collects charging data for  
10      National Grid's EV Charge Smart Plan which saves their New York customers up to  
11      30% on their at-home EV charging by offering a choice of two subscription tiers that  
12      provide off-peak charging for a flat monthly fee;<sup>4</sup> and
- 13      ● Customer savings: We've been proven to reduce customers' energy bills by  
14      administering an EV-specific Time-of-Use rate for Con Edison, nudging and  
15      incentivizing customers to charge during off-peak hours and saving them an average of  
16      \$400/year through the Smart Charge New York program.<sup>5</sup>

---

<sup>1</sup> <https://skipsolabs-epri.s3.amazonaws.com/uploads/content/44bf0c2a83c23c767aa6ef08548c268bb68864ba.pdf>.

<sup>2</sup>

[https://www.dpuc.state.ct.us/dockcurr.nsf/8c6fc37a54110c3e852576190052b64d/2da56c102725a0d385258a2a0072c555/\\$FILE/Annual%20Review%20Tech%20Session%20%2019.23\\_.pdf](https://www.dpuc.state.ct.us/dockcurr.nsf/8c6fc37a54110c3e852576190052b64d/2da56c102725a0d385258a2a0072c555/$FILE/Annual%20Review%20Tech%20Session%20%2019.23_.pdf), slide 22.

<sup>3</sup> [https://svcleanenergy.org/wp-content/uploads/GridShift-pilot-report\\_2021.pdf](https://svcleanenergy.org/wp-content/uploads/GridShift-pilot-report_2021.pdf).

<sup>4</sup> <https://www.nationalgridus.com/Charge-Smart-UNY>.

<sup>5</sup> <https://scnv.ev.energy/>.

1   **Q:   What is ev.energy's relationship with El Paso Electric Company (EPE or the**  
2       **Company)?**

3   A:   ev.energy was selected as the vendor to administer the EV Smart Rewards Pilot. However,  
4       ev.energy participates in various utility proceedings across the country, including places  
5       where we have not been selected as a vendor. ev.energy believes managed charging is a  
6       critical component of the transition to electrified transportation and advocates for the  
7       implementation of managed charging programs wherever feasible.

8   **Q:   What is the purpose of your Direct Testimony?**

9   A:   The purpose of my Direct Testimony is to explain ev.energy's position on EPE's  
10      Application for approval of its Texas Electric EV-Ready Pilot Programs. Specifically, I will  
11      address EPE's proposal to implement the EV Smart Rewards managed charging Pilot.  
12      ev.energy strongly supports the approval of EPE's Application, which represents a strong  
13      step towards developing the necessary capabilities to harness the massive potential of EVs  
14      to provide benefits to EPE and its customers.

15   **Q:   Please summarize your recommendations for the Commission.**

16   A:   I recommend that the Public Utility Commission of Texas (Commission) approve EPE's  
17      proposed EV Smart Rewards Pilot for the reasons outlined in my testimony.

18       **II.    El Paso Electric's Proposed EV Smart Rewards Pilot**

19   **Q:   What will you address in this section of your testimony?**

20   A:   In this section of my testimony, I will provide an overview of utility managed charging  
21      programs and discuss ev.energy's position on EPE's proposed EV-Ready Pilot Programs,  
22      with a focus on the proposed EV Smart Rewards Pilot.

1 **Q: What are managed charging programs?**

2 A: Managed charging programs refer to utility programs that are designed to manage customer  
3 EV charging activity in response to grid conditions and distribution constraints. Managed  
4 charging programs generally fall into two categories.<sup>6</sup>

5 1) Passive Managed Charging – Relies on rates (e.g., EV-specific TOU rates) or  
6 incentives to influence customers to manually shift their charging behavior.

7 2) Active Managed Charging – Enables utilities and grid operators to directly  
8 connect with participants' networked charging stations or vehicle telematics to  
9 actively control participating customers' charging activity in response to grid  
10 conditions, while still respecting customer preferences around battery level and  
11 departure time. This direct control generally delivers greater grid benefits.<sup>7</sup>

12 Active managed charging programs are analogous to EPE's Energy Wise  
13 Savings Program, in which EPE actively manages customers' smart thermostats  
14 to mitigate peak loads on hot days.<sup>8</sup>

15 Many utilities have recognized the importance of managing EV charging activity  
16 and begun to implement managed charging programs. There are numerous examples of  
17 managed charging programs across the United States, such as Ameren's Managed  
18 Charging Pilots in Illinois and Missouri,<sup>9</sup> ConEd's SmartCharge NY program,<sup>10</sup> Xcel

---

<sup>6</sup> Smart Electric Power Alliance, *The State of Managed Charging in 2021*, p. 9. Available at:  
<https://seppower.org/resource/the-state-of-managed-charging-in-2021/>.

<sup>7</sup> *Id.*

<sup>8</sup> [https://tx.epelectricmarketplace.com/content\\_drpc\\_info.html](https://tx.epelectricmarketplace.com/content_drpc_info.html).

<sup>9</sup> <https://skipsolabs-epri.s3.amazonaws.com/uploads/content/44bf0c2a83c23c767aa6cf08548c268bb68864ba.pdf>.

<sup>10</sup> <https://www.coned.com/en/save-money/rebates-incentives-tax-credits/rebates-incentives-tax-credits-for-residential-customers/electric-vehicle-rewards>.

1 Energy's Colorado Charging Perks Pilot,<sup>11</sup> Madison Gas and Electric's MGE Charge  
2 Ahead program,<sup>12</sup> Eversource and United Illuminating's Connecticut EV Charging  
3 Programs,<sup>13</sup> and New York State Electric & Gas/Rochester Gas & Electric's Charge Smart  
4 program.<sup>14</sup>

5 Crucially, managed charging programs are specifically designed around EV  
6 charging activity, which helps maximize the benefits realized from these programs.

7 **Q: Why is it important for utilities to implement EV-specific load management tools such**  
8 **as managed charging programs?**

9 A: Strategies designed around shifting customer electricity consumption at the whole-home  
10 level (e.g., whole-home TOU rates) can be an effective means for encouraging certain  
11 customers to shift their general electricity consumption to off-peak hours. However, some  
12 customers may be unwilling to take service for their entire household on TOU rates, but  
13 still want to participate in a managed charging program for their EV. For example, many  
14 customers might be unwilling to shift the times that they heat or cool their home, use hot  
15 water, or use their oven in response to TOU rates and will choose a flat volumetric rate  
16 option as a result of these preferences. However, EVs are typically parked overnight, and  
17 drivers typically do not care when charging occurs as long as their vehicle reaches the  
18 desired state of charge by the time they leave home in the morning. As a result, there are

---

<sup>11</sup> <https://ev.xcelenergy.com/Charging-Perks>.

<sup>12</sup> <https://www.mge.com/our-environment/electric-vehicles/charging/charge-ahead>.

<sup>13</sup> <https://www.uinct.com/documents/1678076/1704262/UI+-+UEVC002+-+EV+Program+Participant+Guide+12-2023.pdf/2360d292-2da0-0c67-a31a-fdc74cd60824?i=1702590958394>.

<sup>14</sup> <https://www.nvseg.com/smartenergy/electricvehicles/ev-programs-for-your-home>,  
<https://www.rge.com/smartenergy/electricvehicles/ev-programs-for-your-home>.



1 likely to be some customers who are willing to participate in EV-specific managed charging  
2 programs but who are unwilling to participate in optional whole-home TOU rates.

3 Additionally, EV charging load has unique characteristics from other residential  
4 energy usage that make EV-specific charging programs more effective for managing load  
5 than other strategies, such as whole-home TOU rates. Specifically, most personal vehicles  
6 are stationary for 22 or more hours daily,<sup>15</sup> and over 80% of EV charging occurs at home.<sup>16</sup>  
7 This significant downtime means there is substantial flexibility for when EV charging  
8 activity can occur over the course of the day to meet drivers' needs, presenting a massive  
9 potential to manage residential EV charging around grid conditions.

10 Additionally, active managed charging programs can stagger charging activity,  
11 allowing the utility to minimize or avoid "timer peaks," in which EV charging load spikes  
12 at the beginning of an off-peak period for drivers on TOU rates or certain passive managed  
13 charging programs.<sup>17</sup> As a result of EVs' long dwell times, there is significant flexibility in  
14 charging schedules, which managed charging programs can take advantage of to align  
15 charging with the most beneficial periods for the grid.

16 **Q: What has EPE proposed for the EV Smart Rewards Pilot?**

17 A: The proposed EV Smart Rewards Pilot is a two-year, voluntary residential managed  
18 charging pilot, in which EPE would have the ability to actively manage the charging

---

<sup>15</sup> See SEPA, *The State of Managed Charging in 2021* (November 2021), p. 7. Available at:  
<https://seppower.org/resource/managed-charging-incentive-design/>.

<sup>16</sup> See David Hurlbut, et al, *Electric Vehicle Charging Implications for Utility Rate-making in Colorado*, NREL, slide  
10, available at: <https://www.nrel.gov/docs/fy19osti/73303.pdf>.

<sup>17</sup> Smart Electric Power Alliance, *Residential Electric Vehicle Rates That Work* (November 2019), p. 12. Available  
at: <https://seppower.org/resource/residential-electric-vehicle-time-varying-rates-that-work-attributes-that-increase-enrollment/>.

1 activity of participating customers.<sup>18</sup> The program would be available to EPE's residential  
2 customers that have a qualifying electric vehicle with telematics capabilities or a qualifying  
3 networked charging station.<sup>19</sup> EPE proposes to cap participation in the pilot at 880  
4 customers, which represents approximately 10% of the expected EVs in EPE's service  
5 territory by the end of 2025.<sup>20</sup>

6 Participating customers would receive a one-time enrollment incentive of \$125,  
7 annual \$50 incentives for customers that allow EPE's to schedule at least 80% of their  
8 charging during off-peak periods, and the opportunity to earn up to \$5 in additional  
9 incentives per month for participating in low carbon and demand response events.<sup>21</sup>

10 **Q: What are EPE's objectives for the EV Smart Rewards Pilot?**

11 **A:** EPE states that the purpose of the pilot is to:<sup>22</sup>

- 12 1. Evaluate customer acceptance and efficacy of managed charging programs with  
13 minimal impact to a customer's driving behavior;
- 14 2. Reduce adverse grid impacts related to unmanaged charging to optimize the use  
15 of existing infrastructure;
- 16 3. Minimize the required investment in additional infrastructure; and
- 17 4. Help the Company evaluate the effectiveness of several managed charging  
18 strategies (e.g., shifting charging load to off-peak periods, avoidance of timer

---

<sup>18</sup> Direct Testimony of Angie Rodriguez, p. 13.

<sup>19</sup> *Id.*, p. 14.

<sup>20</sup> *Id.*, p. 15.

<sup>21</sup> *Id.*, p. 14.

<sup>22</sup> *Id.*

1 peaks, alignment of charging with renewable energy generation, and increase  
2 customer engagement with the utility).

3 **Q: Does ev.energy support EPE's proposed EV Smart Rewards Pilot?**

4 A: Yes. ev.energy strongly supports the proposed EV Smart Rewards Pilot. As EV adoption  
5 grows, it is critical that utilities begin to implement strategies to properly manage EV  
6 charging activity. The continued increase in EV adoption presents a massive opportunity  
7 for utilities and grid operators to harness the inherent flexibility of EV charging load to  
8 realize various grid benefits. Through this pilot, EPE will proactively prepare for a future  
9 in which many of EPE's customers will rely on its services to fuel their daily transportation  
10 needs, which will have severe impacts on the grid if not managed effectively.

11 Conversely, the proper management of EV charging can help utilities realize grid  
12 and societal benefits by incentivizing off-peak charging, aligning charging with low-cost  
13 and low-carbon generation, avoiding curtailment of renewable generation,<sup>23</sup> placing  
14 downward pressure on electricity rates for *all* utility customers,<sup>24</sup> and avoiding costly  
15 distribution upgrades,<sup>25</sup> among other benefits.<sup>26</sup> Cumulatively, the benefits realized by

---

<sup>23</sup> Smart Electric Power Alliance. *A Comprehensive Guide to Managed Charging*, p. 9. Available at:  
<https://sepapower.org/resource/a-comprehensive-guide-to-electric-vehicle-managed-charging/>.

<sup>24</sup> Synapse Energy Economics, *Electric Vehicles Are Driving Rates Down*, p. 1 (June 2023), available  
at [https://www.synapse-](https://www.synapse-energy.com/sites/default/files/Electric%20Vehicles%20Are%20Driving%20Rates%20Down%20Factsheet.pdf)

[energy.com/sites/default/files/Electric%20Vehicles%20Are%20Driving%20Rates%20Down%20Factsheet.pdf](https://www.synapse-energy.com/sites/default/files/Electric%20Vehicles%20Are%20Driving%20Rates%20Down%20Factsheet.pdf).

<sup>25</sup> EPRI Managed EV Charging Software Incubator energy Labs 2020 Pilot Project Report, p. 2. Available at:  
<https://skipsolabs-epri.s3.amazonaws.com/uploads/content/44bf0c2a83c23c767aa6cf08548c268bb68864ba.pdf>.

<sup>26</sup> Anwar, M.B., Muralori, M., Jadun, P., Hale, E., Bush, B., Denholm, P., Ma, O., and Podkaminer, K., 2022,  
Assessing the value of electric vehicle managed charging: A review of methodologies and results: *Energy and  
Environmental Science*, v. 15, p. 466–498, doi: 10.1039/d1cc02206g.

1 managed charging programs have been shown to consistently provide hundreds of dollars  
2 in utility investment cost savings per EV each year.<sup>27</sup>

3 Further, the National Renewable Energy Laboratory (NREL) and U.S. Department  
4 of Energy (US DOE) recently conducted an analysis which assessed the value of EV  
5 managed charging.<sup>28</sup> While the results of the study demonstrated significant variability due  
6 to the inclusion of programs with vastly different designs (*e.g.*, passive vs. active  
7 management) and encompassed examples from utilities with different operational  
8 conditions, the analysis provides additional evidence that managed charging programs have  
9 the potential to provide significant value to utilities and ratepayers.

10 Finally, EPE's proposal to evaluate multiple managed charging strategies within the  
11 pilot will allow for comparison between various program designs and assess which  
12 approaches can realize the greatest benefits for EPE and its customers. These insights can  
13 help guide the development of future managed charging programs and ensure that the  
14 programs are designed to provide the most value to EPE's customers.

15 **Q: Are there any other components of EPE's proposed Pilot design that you would like**  
16 **to highlight?**

17 A: Yes, ev.energy strongly supports EPE's proposal to utilize both vehicle telematics and  
18 networked residential charging stations for the Pilot, allowing for multiple customer  
19 participation pathways. This hardware-agnostic approach will advance equity of access by  
20 offering multiple channels for different customer profiles to participate.

---

<sup>27</sup> <https://pubs.naruc.org/pub/32F23B46-1866-DAAC-99FB-FBF37F6CA4C0>. See Slide 15.

<sup>28</sup> *Id.*; <https://www.energ.gov/ccrc/analysis/assessing-value-electric-vehicle-managed-charging-review-methodologies-and-results>; <https://pubs.rsc.org/en/content/getauthorversionpdf/d1cc02206g>.

1           Programs that rely on a single type or brand of hardware for customer participation  
2           can inadvertently impose social equity barriers, which the inclusion of multiple  
3           participations pathways (e.g., networked charging stations and vehicle telematics) can help  
4           alleviate. For example, solely utilizing vehicle telematics from a limited subset of auto  
5           OEMs as the primary channel for eligibility risks blocking customers who drive lower cost  
6           or older EV models that lack telematics (and customers that drive EVs which require  
7           additional subscriptions to access their telematics data) from enjoying the financial benefits  
8           of participation. Similarly, managed charging programs that solely utilize private Level 2  
9           EVSE can also create equity issues by restricting participation from renters, residents of  
10          multi-unit dwellings, and low-income communities. For example, the MIT Science Policy  
11          Review found that “lower income households may find the installation of home charging  
12          unaffordable, and those in multifamily housing are less likely to have access to charging at  
13          home.”<sup>29</sup> Rewiring America has further found that 60-70 percent of households have  
14          electrical panels with ratings less than the 200 amps needed to fully electrify, with service  
15          upgrades costing between \$2,000–\$30,000.<sup>30</sup>

16          Instead of relying on a single pathway for participation, we are encouraged that  
17          EPE has designed the proposed Pilot in a manner that enables participation from a wide  
18          variety of technologies. This approach will advance equity of access by allowing for

---

<sup>29</sup> See August 30, 2021 “A perspective on equity in the transition to electric vehicles”, available  
<https://sciencepolicyreview.org/2021/08/equity-transition-electric-vehicles/>.

<sup>30</sup> See “Circuit Breakers: Upending Electrification Myths”, available at <https://www.rewiringamerica.org/circuit-breakers-the-grid#12>.

1 participation from a broad range of customer profiles, not just those that can afford newer,  
2 high-cost EVs.

3 **Q: Is there a risk of delaying the implementation of EV managed charging programs?**

4 A: Yes, while EVs have the potential to provide massive benefits to utilities and ratepayers,  
5 these benefits are largely contingent on charging activity occurring during times that are  
6 beneficial to the grid. Conversely, unmanaged charging can intensify negative impacts on  
7 the grid if charging activity occurs at times when the grid or distribution system is strained  
8 (e.g., periods of peak demand). Accordingly, it is imperative that utilities begin to  
9 implement managed charging programs to gain learnings now and assess the best strategies  
10 to manage charging activity effectively over the long-term. Pilots, such as what EPE has  
11 proposed, allow utilities to develop a key system management tool to ensure that EVs do  
12 not increase strain on the grid, and instead provide benefits to all customers through  
13 increased energy sales during times the grid is underutilized.

14 **Q: Does EPE currently have any EV load management offerings available to its**  
15 **residential customers?**

16 A: Yes, EPE currently offers a TOU EV Charging Rate (Schedule EVC), which is available to  
17 residential and commercial customers for separately metered facilities that are solely used  
18 for EV charging.

19 **Q: How is the proposed EV Smart Rewards Pilot different from Schedule EVC?**

20 A: While both the proposed Pilot and Schedule EVC ultimately share a similar goal of shifting  
21 EV charging to more beneficial periods, there are a couple of key advantages that the  
22 proposed Pilot has over Schedule EVC. Firstly, the proposed EV Smart Rewards Pilot

1 would allow EPE to actively control participants' charging activity rather than relying on  
2 a passive price signal to influence changes in customer charging behavior. As previously  
3 discussed, active managed charging programs can realize greater benefits than passive  
4 programs (e.g., greater load curtailment, avoidance of timer peaks, etc.) because the utility  
5 can directly control participating customers' charging behavior allowing the utility to  
6 actively manage load around grid conditions in real-time.

7 Additionally, Schedule EVC requires the installation of a second meter in order to  
8 take service on the rate. EPE has estimated that the cost for customers to install a second  
9 meter can be up to \$5,000, which is prohibitively expensive for many customers.<sup>31</sup> By  
10 contrast, the EV Smart Rewards Pilot avoids the need for a second meter by utilizing the  
11 internal metering capabilities embedded in compatible networked EV charging stations  
12 and/or vehicle telematics. By eliminating the requirement to install a second meter,  
13 participation in an EV managed charging offering will be more widely available to EPE  
14 customers and advance equity by reducing financial barriers to participation.

15 **Q: Do you expect the benefits of the EV Smart Rewards Pilot will outweigh its costs?**

16 A: Yes. While I have not undertaken a quantitative analysis, I expect the benefits EPE will  
17 realize from actively shifting customers' EV charging load to times when it is most  
18 beneficial to the grid will far outweigh the cost of the Pilot. Perhaps more importantly, the  
19 Pilot will provide EPE with the opportunity to study the most effective strategies for  
20 managing EV charging load, which will inform the development of future managed

---

<sup>31</sup> Direct Testimony of Manuel Carrasco, pp. 9-10.

1 charging programs that are available to more customers. The primary purpose of any pilot  
2 program should be to ensure that the utility learns effective strategies for future programs.  
3 Accordingly, while I expect the financial benefits of the EV Smart Rewards Pilot will  
4 outweigh its costs, even if they do not the Commission should find that the learnings EPE  
5 will gain from the Pilot justify the Pilot's costs. The Commission can and should apply  
6 more rigorous cost-benefit analyses to any future proposals EPE makes for full-fledged  
7 managed charging programs that are available to all customers.

8 **Q: Will the EV Smart Rewards Pilot incentivize more customers to adopt EVs?**

9 A: It is worth pointing out that the purpose of this Pilot is not to incentivize EV adoption or  
10 support customers looking to purchase or lease an EV. Rather, the EV Smart Rewards Pilot  
11 reflects a recognition on EPE's part that the number of EVs in EPE's service territory will  
12 continue to grow and that EPE must learn how to manage the substantial new load that  
13 those EVs will bring. Left unmanaged, this new EV charging load will trigger the need for  
14 grid upgrades for which all customers will pay. By learning to manage EV charging load  
15 actively and effectively, EPE can ensure that charging takes place when it is most beneficial  
16 to the grid, avoiding the need for costly upgrades and putting downward pressure on rates  
17 for all its customers.

18 **Q: What do you recommend regarding EPE's proposed EV Smart Rewards Pilot?**

19 A: I recommend that the Commission approve EPE's proposed EV Smart Rewards Pilot.



1        **III. Conclusion and recommendations**

2        **Q: Please summarize your recommendations for the Commission.**

3        **A:** I recommend that the Commission approve EPE's proposed EV Smart Rewards Pilot as  
4        proposed by EPE.

## *Jared Ballew*

### **Employment History**

#### **ev.energy, September 2023 – Present**

##### *US Policy Director*

Responsible for tracking, monitoring, and analyzing utility regulatory filings across the country in order to develop ev.energy's policy positions and strategy to promote electric vehicle managed charging and V2X solutions for businesses, utilities, and electric vehicle drivers.

#### **ChargePoint, Inc., June 2021 – August 2023**

##### *Utility Policy Coordinator*

Responsible for tracking, monitoring, and analyzing electric utility regulatory filings to develop ChargePoint's policy positions and strategy to promote electric vehicle charging solutions for businesses, utilities, and electric vehicle drivers.

#### **Iowa Utilities Board, January 2019-June 2021**

##### *Utility Analyst/Senior Utility Analyst*

Responsible for review, analysis, and development of recommendations for utility regulatory issues and filings. Responsible for engagement with MISO, SPP and OMS on federal/regional policy issues.

### **Education**

#### **Master of Science (M.S.), Geology - Climatology focus (2018)**

Iowa State University, Ames, IA

#### **Bachelor of Science (B.S.), Biology and Environmental Science (2015)**

Iowa State University, Ames, IA

### **Publications**

Mette, M.J., Whitney, N.M., Ballew, J., Wanamaker, A.D., 2018, Unexpected isotopic variability in biogenic aragonite: A user issue or proxy problem? *Chemical Geology*, doi:10.1016/j.chemgeo.2018.02.027.

Ballew, J. Refinement and utilization of the marine climate proxy *Arctica islandica*: An ideal replication strategy for stable isotope studies and an investigation into the shell growth and hydrographic variability of Georges Bank (Northwestern Atlantic), 2018, Iowa State University, Ames, Iowa. Presented at thesis defense, 2018.