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MISSOURI PUBLIC SERVICE COMMISSION

CASE NO.: ER-2022-0129 / 0130

REBUTTAL TESTIMONY

OF

KIMBERLY H. WINSLOW

ON BEHALF OF

EVERGY MISSOURI METRO and EVERGY MISSOURI WEST

**Kansas City, Missouri
July 2022**

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Case No. ER-2022-0129 / 0130

1 **I. INTRODUCTION AND PURPOSE**

2 **Q: Please state your name and business address.**

3 A: My name is Kimberly H. Winslow. My business address is 1200 Main Street, Kansas
4 City, Missouri 64105.

5 **Q: Are you the same Kimberly H. Winslow who submitted direct testimony in these**
6 **dockets on January 7, 2022?**

7 A: Yes.

8 **Q: On whose behalf are you testifying?**

9 A: I am testifying on behalf of Evergy Metro, Inc. d/b/a Evergy Missouri Metro (“Evergy
10 Missouri Metro”) and Evergy Missouri West, Inc. d/b/a Evergy Missouri West
11 (“Evergy Missouri West”) (collectively, the “Company” or “Evergy”).

12 **Q: What is the purpose of your testimony?**

13 A: I will address several issues as it pertains to my Direct testimony. I provide Rebuttal
14 testimony on the following:

- 15 ▪ Staff’s proposal of default and ultra-low peak to off-peak differential time-of-
16 use rates
- 17 ▪ OPC’s submission of a report on time-of-use education for Arizona Public
18 Service

1 that residential customers, who choose to participate, enjoy² because it allows more
2 control to manage their energy usage versus a standard block rate structure. Most TOU
3 participants were highly successful in shifting behaviors to off-peak to lower their bill.³
4 The Company has demonstrated success against all defined metrics with the TOU rate,
5 which was designed with significant price differentials across three periods (on-peak,
6 off-peak and super off-peak) and seasons (summer and winter). The Company's TOU
7 on-peak to super off-peak price differential is the most notable with the on-peak price
8 being approximately 6 times higher than the super off-peak in both seasons (6:1). The
9 on-peak to off-peak price differential is also notable with the on-peak price being 3
10 (3:1) and 2.5 (2.5:1) higher in the summer and winter seasons, respectively.
11 Ultimately, an "ultra-low" differential (essentially non-existent differential) TOU rate,
12 as proposed by Staff, defeats the fundamental purpose of a TOU rate.

13 **Q: What is Staff's pricing differential for its proposed TOU rate?**

14 A: As near as I can calculate from information provided in Ms. Lange's Direct testimony,
15 it is slightly above 1:1.

16 **Q: How do you describe the fundamental purpose of a TOU rate?**

17 A: I see the purpose of TOU rates (or time-variant rates, in general) as two-fold. First, a
18 TOU rate provides a more representative price signal of actual costs to the customer
19 and second (in relation to the first), a properly designed TOU rate is meant to create
20 more elasticity of demand for various end uses to improve efficiency of resources.

² Evergy Missouri Residential Time-of-Use Rate Evaluation - Guidehouse December 23, 2021, Section 3.3.5.1

³ Evergy Missouri Residential Time-of-Use Rate Evaluation - Guidehouse December 23, 2021, Section 3.3.5.2

1 There can be other objectives of TOU rates as found in the industry⁴, but the primary
2 purposes remain the same.

3 **Q: Can you clarify why you believe Staff’s “ultra-low” differential defeats the**
4 **fundamental purposes of a TOU rate?**

5 A: A \$0.01/kWh change would not send any meaningful price signal to a customer such
6 that they would be motivated to affect their usage through behavioral change. A
7 \$0.01/kWh change is slightly greater than a 1:1 differential, as stated above. Staff’s
8 proposed ultra-low differential is contrary to industry TOU rate design, where the
9 median differential for two- and three-period rates are 2.7:1⁵. Industry research shows
10 that half of TOU rates have a price differential of at least 10 cents per kWh.⁶ In fact,
11 Evergy’s research indicates that Missouri’s ultra-low differentials is an extreme outlier
12 to other utilities that have implemented TOU rates. Below is a graphic of Brattle’s
13 most recent research supporting this statement.

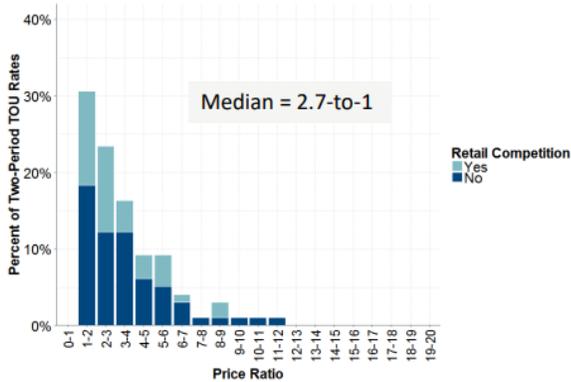
⁴ “A Primer On Time-Variant Pricing”; Environmental Defense Fund, 2015,
https://www.edf.org/sites/default/files/a_primer_on_time-variant_pricing.pdf

⁵ A Survey of Residential Time-of-Use Rates, The Brattle Group, November 12, 2019.
https://www.brattle.com/wp-content/uploads/2021/05/17904_a_survey_of_residential_time-of-use_tou_rates.pdf

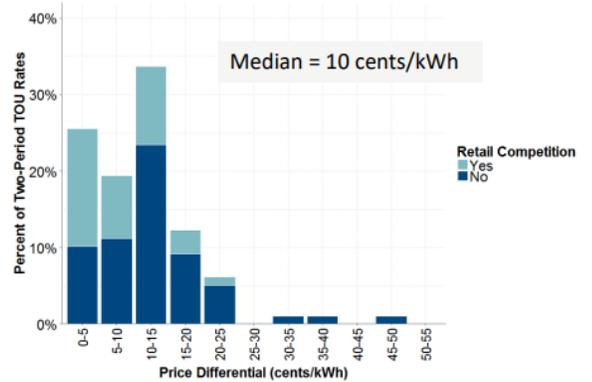
⁶ Ibid.

A Survey of Residential Time-of-Use Rates, The Brattle Group⁷

Price Ratio in Two-Period Rates



Price Differential in Two-Period Rates



Sources and notes: Brattle analysis of OpenEI Utility Rates Database. Data shown for IOUs only.

- Among two-period TOU rates, 71% have a price ratio of at least 2-to-1
- Price ratios shown are for the volumetric charge only
- The strength of the price signal will be diluted to some degree by fixed charges and/or additional flat volumetric charges

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Without an effective price signal, it has been proven to be harder to motivate customers to change behavior and create elasticity of demand for energy at different times of the day. Studies, such as EPRI’s *Price Elasticity of Demand for Electricity: A Primer and Synthesis*⁸, researches in depth a consumer’s price response to electricity – how consumers adjust their behavior and level of energy consumption when the price changes. Results of TOU programs demonstrate that as the price differential increases, customers shift usage in greater amounts.

⁷ Ibid.

⁸ Price Elasticity of Demand for Electricity: A Primer and Synthesis, EPRI, January 2008.

1 **Q: What are the results of other Missouri utilities who have implemented a similar**
2 **residential TOU structure with a low-price differential, as identified by Staff**
3 **witness Lange in her Direct testimony?**

4 A: Ameren transitioned to a portfolio of TOU rates in Docket No. ER-2019-0335.
5 Customers transition to a TOU rate schedule with a low differential as an AMI meter
6 is installed at their home. Evergy understands that Ameren’s AMI deployment will be
7 completed in 2024 at which time all of their customers will fully be able to select
8 service under its TOU rate portfolio. Evergy is not familiar with any publicly available
9 results (e.g., EM&V, customer satisfaction, off-peak load shift) from Ameren’s TOU
10 rate offerings to this date. And Empire will launch its mere 2 cent per kWh off-peak
11 discount rate in October 2022⁹.

12 **Q: Are you aware of other successful TOU rate offerings similar to what Staff is**
13 **proposing in this case and approved in Missouri?**

14 A: Evergy’s research indicates that Missouri’s ultra-low differentials is an outlier to other
15 utilities that have implemented TOU rates. Staff fails to identify and share the success
16 of other utilities that have implemented meaningful participation and/or load shifts in
17 TOU rates with such a minimal differential. I am aware of at least one well-known
18 default TOU rate that was offered by Puget Sound Energy in 2001, which had a slight
19 peak to off-peak differential. Following a backlash related to limited customer bill
20 savings because of this low differential, the result was an immediate opt out by 10% of
21 its 300,000 customers and Puget terminated its program in 2002.

⁹ Sarah L.K. Lange Direct Testimony, Page 17, Footnote 5.

1 The Commission should consider the risk of selling customers on the benefits
2 of TOU rates when Staff’s ultra-low differential TOU design provides virtually no
3 opportunity for bill savings. Evergy has educated customers about the benefits of load
4 shifting and ways that they can reduce their bills on the TOU rate. If customers take
5 actions and they do not see that their bill changes, they will be dissatisfied and that can
6 snowball very quickly into negative customer experiences and customer complaints.
7 Evergy reinforces its TOU design with the tagline “Switch, Shift and Save” to easily
8 engage the customer in a simple manner. While Ms. Lange states that her plan and
9 time periods will leverage Evergy’s Wait ‘til 8 campaign¹⁰, we have concerns over
10 customers experiencing a bait and switch with Staff’s ultra-low differential as they will
11 not see the results that we have educated them on for the past several years.

12 I am also aware that some California utilities are rolling out TOU rates that have
13 a diluted differential; however, my review indicates that at least with PG&E, this rollout
14 is continuing with the majority of customers transitioning in 2022. In addition, I note
15 that California has market and grid dynamics that are not comparable to Missouri such
16 as differences in our RTOs, regulation or trends in customer BTM adoption, such as
17 residential solar generation or EVs.

18 **Q: Would you recommend that the Commission approve Staff’s proposed ultra-low**
19 **TOU differential rate, even if it has already approved a similar rate for Ameren**
20 **and Empire?**

21 **A:** While there may be some administrative value to the Commission having similar rate
22 structures across the state, the underlying premise of the ultra-low differential is

¹⁰ Sarah L.K. Lange Direct testimony, Page 16, Lines 9-10.

1 contrary to the point of developing customer friendly options that help drive behavior
2 to lower bills and shift demand to off-peak. For example, I can't imagine that this ultra-
3 low differential would incent an EV owner to charge off-peak if there were no financial
4 advantage to doing so. And yet, Ms. Lange also wants to eliminate end-use rates so I
5 am not clear how she expects to motivate customer behavior that has the potential to
6 exacerbate impacts to the grid, such as EV charging, without either specialized rates or
7 a significant off-peak differential TOU rate.

8 **Q: If the Commission were to approve Staff's proposed ultra-low TOU differential**
9 **rate, do you have a sense of the level of difficulty in deploying the rate?**

10 A: Not precisely. However, I understand that Ameren and Empire were allowed to deploy
11 the low-differential rate in conjunction with their AMI roll-out, making the deployment
12 manageable. For Evergy, where our AMI systems are fully deployed, some additional
13 time consideration would be in order to transition customers to the rate.

14 **Q: Does Staff witness Lange describe why such an ultra-low differential makes sense**
15 **for customers?**

16 A: Witness Lange only provides that the proposed rate will "mitigate the TOU rates to
17 customers with energy-intensive HVAC units"¹¹. She also purports that it will simplify
18 the customer experience and rely on the TOU education process Evergy began, as
19 outlined in the 2018 Rate Design S&A.

20 **Q: What is your response to those benefits?**

21 A: There seems to be underlying assumptions to Ms. Lange's ascribed benefits. In
22 Evergy's rate offerings today and in Evergy's proposed rates for this filing, the

¹¹ Sarah L.K. Lange Direct testimony, Page 41, Lines 16-17.

1 Company has rate options for customers to choose from. I am perplexed by the benefits
2 of the ultra-low differential that Ms. Lange ascribes. It doesn't stand to logic why she
3 has designed and proposed a rate that has a subtle price signal for customers that should
4 rather be encouraged to replace their energy-intensive HVAC units through Evergy's
5 MEEIA programs. For example, Evergy may encourage those customers to replace
6 their energy-intensive units with an energy efficiency rebate and finance the higher
7 efficient unit through Evergy's PAYS® program. Or, Evergy would encourage those
8 customers to pre-cool and/or slightly increase the temperature of their HVAC system
9 during on-peak periods – which can be achieved through Evergy's MEEIA rebated
10 thermostat program. Thus, mitigating grid impact during peak times with customers
11 through technology and behavior change. The purpose of a TOU rate is not to dissuade
12 customers from running their HVAC system on a hot afternoon¹² as claimed by Ms.
13 Lange. The purpose of the TOU rate is to provide a price signal to create behavior
14 change to move certain activities off-peak. Ms. Lange is designing a default TOU rate
15 that does not provide any price signal to effect behavioral change and that will not
16 minimize grid impacts. I offer a report finding from a Guidehouse report for Ontario
17 Energy Board to support this:

18 *Increasing the differentials between On-Peak and Off-Peak periods will*
19 *improve consumers' opportunity for bill savings and thus the motivation*
20 *to respond to the (more aggressive) price signal in the late*
21 *afternoon/early evening period when long-term system costs are*
22 *highest. Although neither of the piloted Enhanced TOU price plans*
23 *delivered any short-term behavioral energy savings, a set of more*
24 *aggressive On-Peak and (summer) Mid-Peak prices could accelerate*
25 *longer-term structural price response by increasing the incentive for*
26 *consumers to acquire more efficient appliances, particularly more*
27 *efficient space-cooling equipment.*¹³

¹² Sarah L.K. Lange Direct testimony, Page 18, Lines 15-17

¹³ Guidehouse Report: Regulated Price Plan Pilot Meta-Analysis Final Report prepared for Ontario Energy Board December 22, 2020

1 Similarly, as stated above, her ultra-low TOU rate provides no incentive for an
2 EV owner to charge off peak and minimize grid impact. In fact, I find it interesting
3 that in File No. ET-2021-0151/0269, Staff argued that an EV customer should be
4 required to enroll in Evergy’s three-period TOU rate because “[i]f EV charging load is
5 not managed it will likely occur during expensive peak hours.”¹⁴ It is not clear to
6 Evergy why when Staff was concerned about the grid impact of unmanaged charging
7 if Evergy’s proposed EV outlet rebate was not paired with Evergy’s TOU rate that Staff
8 would now present in this case an ultra-low differential between off-peak and peak (or
9 super off-peak) on the basis that while “there is a cost-based difference [between] a
10 kWh consumed at 6:00 pm, and a kWh consumed at 2:00 am on a given day, but that
11 difference is typically less than \$0.05/kWh.”¹⁵ Her default TOU recommendation is
12 based on an analysis that she determined there is essentially no difference in pricing
13 throughout the day, day of week or season. Her analysis runs contrary to Staff’s prior
14 statement and concern in the TE case.

15 **Q: Staff Witness Lange proposes that the TOU rate should be a default rate. Do you**
16 **agree?**

17 A: No, the Company obviously strongly disagrees based on our filed plans to continue
18 with the existing three-period TOU rate as an opt-in, and we have proposed several
19 rates and/or programs to expand customer choice. Witness Lange’s brief reasoning for
20 a default rate in her direct testimony is not supported enough to fully respond. It is
21 implied in Ms. Lange’s Direct testimony that she is disagreeable with the very well
22 vetted third-party EM&V results, although the results demonstrate high satisfaction

¹⁴ File No. ET-2021-0151/0269, Staff’s Position Statement, Page 2.

¹⁵ Lange Direct testimony, Page 19, Lines 7-8.

1 with the TOU rate, strong customer behavior changes resulting from the high-
2 differential pricing structure and demonstrated customer bill savings as a result. It
3 would be premature for me to provide testimony based on her inferences, and I will
4 await further specifics if provided in her rebuttal.

5 III. TOU EDUCATION

6 **Q: OPC Witness Kremer provided a report in her Direct testimony from the Arizona**
7 **Corporation Commission (“ACC”) on Arizona Public Service’s (“APS”)**
8 **Customer Education Plan related to TOU rates. What is her stated reason for**
9 **including the report in her Direct testimony?**

10 A: Her stated intention is “to offer educational tenets, ideas, and information that might
11 serve to benefit Evergy customers in the Company’s future customer educational
12 efforts, including more expansive customer adoption of TOU offerings.”¹⁶

13 **Q: Compared with Evergy’s experience educating customers on new rates, what are**
14 **some similarities, differences and opportunities you observed in Witness**
15 **Kremer’s testimony and/or the ACC report?**

16 A: An example of the similarities with the best practices suggested by the report’s author
17 include Evergy’s completion of a thorough EM&V process. This process met many of
18 the key benchmarks the author was concerned about, citing outlined customer
19 experience journeys, satisfaction scores and ultimately quantitative usage and bill
20 impacts of being on the new TOU rate. Another example the author includes as being
21 a key component of a successful customer education plan is research, which Evergy

¹⁶ Lisa Kremer Direct testimony, Page 9, Lines 12-15.

1 conducted in earnest in 2018 in preparation for how to message and offer its new TOU
2 offer.

3 For an example of a difference, the author points out tracking call center metrics
4 as a primary benchmark. In Evergy's case our clear focus was to drive customer self-
5 service through online enrollment in the TOU rate, which Evergy has experienced well
6 above 90% for the entire TOU period since launch.

7 For opportunities, the author highlights new and moving customers as an
8 opportunity to educate and engage with rate choice at that time. Evergy currently has
9 options to educate existing customers on their expected bills on a TOU rate but does
10 not have a model for new customers to present potential bill comparison based on the
11 different rates. Another opportunity might be a further evaluation on credit and
12 collection activities related to TOU participants to contrast with standard rate
13 customers.

14 **Q: What else would you offer related to the inclusion of the report by Ms. Kremer?**

15 A: As with most benchmarking across jurisdictions, some of the details matter to
16 determine the appropriateness. In the Arizona case, the Commission ordered APS to
17 deploy new rates and the file an education plan in advance. APS had a fixed budget
18 for a short period of time and had some undefined goals. While Evergy's 2018 Rate
19 Design S&A laid out specific parameters for Evergy to follow in its launch of the TOU
20 opt-in program, including specified timing and stakeholder approval for an education
21 and EM&V plan for the TOU rate, it did have specific, measurable, achievable, relevant
22 and time-bound goals (enrollment of 3,500 customers by year-end 2020). Also, the
23 report compares Arizona's experience to California's TOU rate rollout even though the

1 author does state there is not a 100% correlation to the widespread education of new
2 rates due to scale and scope of the rates being rolled out and budgets/timing involved.

3 Overall, we appreciate the chance to learn from another electric utility's
4 experience in deploying rates and look forward to continued success in Missouri with
5 new and innovative rate offerings for our customers.

6 **IV. ELECTRIC VEHICLE RATES AND COMMERCIAL EV PROGRAM**

7 **Q: Why is Evergy requiring a separate utility meter as an option for EV drivers**
8 **under its proposed Schedule RTOU-EV¹⁷?**

9 A: Evergy included a separate utility requirement for Schedule RTOU-EV after
10 completing an industry benchmarking analysis including some of the utilities
11 referenced in ChargePoint's testimony as well as a survey of alternative methods.
12 While it is true that some utilities utilize network-capable smart chargers for
13 submetering, Evergy does not wish to introduce this complexity into either its
14 operations or its customers, many of whom have charged for years without a networked
15 smart charger.

16 While a second utility meter can more expensive than a networked charger, the
17 meter provides a secure, singular, definitive means to execute an EV-specific time-of-
18 use rate until charge management solutions that leverage vehicle telematics become
19 more viable and standardized.

¹⁷ The RTOU-EV schedule contains the same pricing rate structure as the High Differential TOU rate schedule; however, the rate requires the customer to install a separate meter for EV charging while providing the customer the option to choose from a different rate in Evergy's portfolio for its other home usage.

1 **Q: Does Evergy share ChargePoint’s concern that a new EV owner would enroll in a**
2 **residential TOU rate only to discover his/her car cannot be programmed to charge**
3 **off-peak?**

4 A: No. Evergy is not aware of any new EV that cannot be programmed to charge off-
5 peak.

6 **Q: Does Evergy share ChargePoint’s concern that the proposed \$3.25 monthly fee in**
7 **Schedule RTOU-EV will likely discourage participation?**

8 A: No. A simple, unified approach to metering EV charging at home does not currently
9 exist. Each approach includes characteristics that are more and less attractive to
10 customers. For example, Evergy’s research suggests the typical Tesla owner uses a
11 non-networked charger at home. Given that Teslas represent two-thirds of historical
12 battery-powered electric vehicles (“BEV”) sales, these customers represent a
13 significant portion of Evergy’s EV customer base that would be inconvenienced by the
14 requirement to purchase and operate a network-capable smart charger. Schedule
15 RTOU-EV is yet another option for EV customers to consider and allows us, Evergy,
16 to continue to evaluate consumer preference and charging patterns as EV adoption
17 continues to grow.

18 Another point to be made here is that smart meter companies like ChargePoint
19 typically charge utilities for access to customer data used for billing.

20 **Q: Does Evergy’s proposed Commercial EV Charger Rebate Program (“CRP”)**
21 **consider the availability of funding from the Bipartisan Infrastructure Law?**

22 A: Yes. Evergy is actively supporting numerous stakeholders (e.g. Missouri Department
23 of Transportation) to ensure federal funding achieves its stated goal of increasing
24 access to public charging. In recognition of federal funding including the National EV

1 Infrastructure formula program referenced in OPC witness Geoff Marke’s testimony,
2 Evergy’s proposed Commercial EV Charger Rebate Program (“CRP”) does not include
3 rebates for either the Highway Corridor or the Public Level 2 use cases. Notably, these
4 use cases were included with Evergy’s previous transportation electrification filings
5 (File Nos. ET-2021-0151 and -0269). By decreasing the CRP program scope, Evergy
6 has demonstrated our flexibility and commitment to customer-funded programs that
7 complement alternative funding that did not exist when the previous cases were filed
8 in February 2021.

9 **Q: Considering the Bipartisan Infrastructure Law, why has Evergy proposed a**
10 **commercial charger rebate of any sort?**

11 A: Evergy’s proposed CRP has been streamlined to focus on the Multifamily,
12 Workplace/Fleet and the non-highway Public DC Fast Charge (“DCFC”) use cases.
13 These use cases represent eligibility gaps with respect to federal funding.

14 Importantly, the proposed rebate is not a “something for nothing” proposition
15 for recipients. Eligibility requirements have been carefully selected to benefit Evergy
16 as it continues to manage the grid through the transition to an electrified transportation
17 sector, which is ultimately beneficial to all customers. For example:

- 18 ■ Recipients are required to install smart, network-capable chargers.
19 These chargers are more expensive than non-networked chargers and
20 some customers will decide Evergy’s rebate is not worth the additional
21 costs and obligations. Yet, this is a critical requirement because it
22 facilitates data sharing and enables load management.

- 1 ▪ Recipients are required to provide usage data to Evergy on a regular
2 basis. Again, this requirement is facilitated by the use of smart,
3 network-capable chargers.

4 From a more strategic perspective, this rebate “pulls” the customer into a
5 relationship with Evergy as the customer pursues transportation electrification. In so
6 doing, Evergy can:

- 7 ▪ Encourage the customer to enroll in “grid friendly” time-of-use rates
8 ▪ Ensure the customer installs only as much charging as is needed by the
9 customer’s use case(s), and
10 ▪ Establish a utility/customer partnership that will be increasingly
11 important as new grid management programs are developed

12 The importance of a solid utility/customer relationship bears repeating and has
13 already been demonstrated during the past few years, particularly in Kansas where
14 Evergy currently offers both a CRP and a business EV time-of-use rate. Willful
15 participants maximize the benefits of “grid friendly” electrification programs.

16 **Q: What technical requirements will Evergy require from CRP recipients?**

17 A: To be eligible for the CRP rebate, recipients must install network-capable, ENERGY
18 STAR certified (for Level 2) charging stations that are safety certified and capable of
19 remote managed charging. These requirements are consistent with the
20 recommendations provided in ChargePoint’s testimony.

21 **Q: What about ChargePoint’s comment that Evergy should not require CRP rebate
22 recipients to agree to participate in demand response events?**

23 A: ChargePoint makes a good point here. Since EV drivers who charge at DC fast chargers
24 are likely time-limited or time-sensitive, Evergy agrees that rebate eligibility should

1 require participants to agree to participate in future demand response events for Level
2 chargers only. In the near-term, Evergy does not anticipate regular demand response
3 events to be called for rebate recipients but, when one is called, we envision load
4 control by throttling back the charging speed by 50% versus shutting down the
5 capability to charge completely, thus minimizing the impact on EV drivers' charging.
6 Participation in demand response events will be clarified in the customer agreement
7 developed for the CRP.

8 **Q: Will the future charging station demand response program include opt-out**
9 **provisions?**

10 A: Yes.

11 **Q: Will Clean Charge Network stations be subject to the same demand response**
12 **requirements as participants in the CRP?**

13 A: Yes.

14 **Q: Regarding the CRP, does Evergy agree with the monthly reporting requirements**
15 **for charging data as suggested in ChargePoint's testimony?**

16 A: No. Evergy has fully defined a set of data reporting requirements for our ongoing
17 commercial rebate program in Kansas and sees no reason to modify these requirements
18 on ChargePoint's behalf.

1 **Q: How has the Company proposed to handle this roll-over funds liability?**

2 A: Please see the rebuttal testimony of Company witness Linda Nunn for a discussion on
3 the revenue requirement treatment.

4 **VI. MARKET BASED DEMAND RESPONSE**

5 **Q: Do you agree with OPC Witness Seaver’s recommendations for the Market Based
6 Demand Response (“MBDR”) tariff sheets?**

7 A: Simply stated, no. Mr. Seaver seems to have two primary arguments against keeping
8 the tariff and both can easily be addressed. One of the arguments presented by Mr.
9 Seaver for discontinuing the MBDR tariff is that no customers have participated in the
10 tariff since enactment of the tariff. When the MBDR tariff was enacted in 2018,
11 customers were required to have a minimum demand response potential of 1 MW. This
12 threshold limits participation to larger commercial and industrial customers. Therefore,
13 Eversource believes this threshold serves as a barrier to participation and has taken steps to
14 address this concern by requesting to lower the threshold to 100 kW in this case.
15 Lowering the threshold for participating will ensure that a greater number of customers
16 are eligible to participate.

17 The second argument presented by Mr. Seaver is that the goals of the MBDR
18 program can be achieved by “free-market” competition, in effect, allowing third-party
19 aggregators to operate in Missouri. This notion is addressed in *subpart i of* my
20 testimony below.

21 **Q: What about the fact that load reduction relief could be provided without the
22 MBDR tariff?**

23 A: Load reduction relief is not the primary objective of MBDR. The primary benefit is to
24 offer customers interested in creating value and reducing electricity costs a tariff to do

1 that by offering their demand response in wholesale (SPP) market. As participation in
2 the wholesale market tends to be driven by wholesale market pricing, participation will
3 not always overlap with load reduction relief.

4 **Q: Why should the Commission amend and allow the tariffs sheets to continue if no**
5 **participation has occurred?**

6 A: In fact, the Commission was the major driver in creating this tariff in the 2018 rate case.
7 A known concern when the tariff was being developed was whether the value available
8 to customers under this tariff would be sufficient to entice participation. In other words,
9 there were concerns that day ahead energy market revenues would not be sufficiently
10 lucrative to entice participation, given that energy prices in SPP have historically been
11 relatively low.

12 **Q: What makes you think there may be greater interest by customers in participating**
13 **in the MBDR tariff today?**

14 A: There are two primary main reasons to believe that conditions have changed since
15 2018. First, we've seen a marked increase in wholesale market prices over the last 1-
16 2 years. Price increases can be attributed to extreme weather events, a strong increase
17 in global prices for natural gas, as well as a growing dependence in SPP on intermittent
18 wind generation, which can create market volatility when wind patterns change.
19 Second, we believe that inflationary and economic pressures will create greater interest
20 by customers seeking to reduce electricity costs.

1 **Q: What is your response to the supplementary recommendations by Mr. Seaver**
2 **which follows his testimony on the MBDR that relates to curtailment and related**
3 **tariff sheets?**

4 A: I would like to address each subpart to the recommendation separately, as each requires
5 a different response.

6 A. *Seaver recommendation (i) “that the Commission revisit the docket for EW-*
7 *2021-0267 and consider lifting the ban on aggregators of load curtailment for*
8 *retail customers, and potentially aggregators of load curtailment for residential*
9 *customers;*

10 The recommendation to lift the ban on third-party aggregators, with no
11 description or assessments provided, is extremely troublesome. Mr. Seaver asserts that
12 the tariff should be abandoned and replaced by “free market competition” --implying
13 that “unregulated programs” somehow create “more efficient and effective” and
14 produce greater benefits to ratepayers. We do not find this notion on its own
15 compelling as no supporting information, analysis, or description of program design
16 has been presented by Mr. Seaver. In fact, such free-market programs, in which a
17 customer’s demand response is submitted as a bid in the wholesale market as an
18 alternative form of supply, shifts the burden of system costs from participating to non-
19 participating customers. Additionally, the recommendation completely overlooks the
20 importance of having adequate consumer protections in place to govern activities by
21 third-parties interfacing with retail customers. Finally, the logic overlooks the
22 fundamental difference between demand-side management programs and supply

1 programs and the distinct benefits produced by each. Certain of these concerns have
2 been fairly well documented in the open docket related to proceedings on FERC 2222²¹.

3 B. ***Seaver recommendation (ii)*** “*that the Emergency Conservation Plan tariff*
4 *sheets be amended to include demand response in load curtailment events*
5 *during emergency conditions;*”

6 We disagree with this recommendation. The proposed Emergency
7 Conservation Plan tariff already includes provisions to call demand response when SPP
8 issues its load alerts. Therefore, this recommendation is not necessary.

9 C. ***Seaver recommendation (iii)*** “*that the Voluntary Load Reduction Rider*
10 *(“Schedule VLR”) tariff sheets, the Business Demand Response (“BDR”) tariff*
11 *sheets, and Business Thermostat tariff sheets be amended to include potential*
12 *load curtailment events outside the specified period of May1-September 30;*

13 As a function of a recent Commission approved Stipulation and Agreement²²
14 that OPC was party to, Evergy amended the language in both the Business DR and
15 Business Thermostat programs to include the potential to call demand response events
16 outside of the historical season of June 1 – September 30. The Voluntary Load
17 Reduction Rider for Missouri West already includes language to allow for calls during
18 the entire calendar year²³ and Evergy would propose to modify the Missouri Metro to
19 allow for the same.

²¹ MPSC Docket. EW-2021-0267, In the Matter of the Establishment of a Working Case Regarding FERC Order 2222) Regarding Participation of Distributed Energy) File No. EW-2021-0267 Resource Aggregators in Markets Operated) By Regional Transmission Organizations and) Independent System Operators

²² File No. EO-2019-0132, Evergy Missouri Metro and Evergy Missouri West Notice of Intent to File Applications for Authority to Establish a Demand-Side Programs Investment Mechanism

²³ Greater Missouri Operations Voluntary Load Reduction Rider, Sheets 96-98, February 22, 2017

1 D. *Seaver recommendation (iv) “that mention of Schedule MBDR be removed*
2 *from all tariff sheets Evergy Missouri Metro P.S.C. MO. No. 2, Original Sheet*
3 *No. 1.82A, Evergy Missouri Metro P.S.C. MO. No. 7, 16th Revised Sheet Nos.*
4 *TOC-1 and TOC-2 and Evergy Missouri West P.S.C. MO. No. 1, Original Sheet*
5 *Nos. 1.1, 2.1, R-63.10.1.*

6 We disagree with OPC’s recommendation to discontinue the MBDR tariff and
7 replace it with unregulated programs, which would negate the need to remove
8 references to the tariff in other tariff sheets.

9 **VII. RESIDENTIAL BATTERY ENERGY STORAGE PROGRAMS**

10 **Q: Do you agree with OPC witness Seaver’s recommendations for a meta-study or**
11 **literature review of all known behind-the-meter (“BTM”) storage studies and**
12 **projects in lieu of the Company’s Residential Battery Energy Storage (“RBES”)**
13 **pilot program?**

14 A: No. The Company has conducted analysis supporting the proposed RBES pilot
15 program design and outlined the grid and customer benefits for evaluation. In addition,
16 the Company is conducting a technology market assessment of residential battery
17 storage system manufacturers to further examine battery systems that will support the
18 pilot’s objectives. At the conclusion of the pilot, the Company has proposed to conduct
19 a third-party post Evaluation, Measurement and Verification (“EM&V”). The EM&V
20 study will consist of a process and impact study outlining the pilot’s results.

21 **Q: Should there be concerns with the scale, duration and projected costs associated**
22 **with the pilot?**

23 A: No. The Company intends to evaluate 50 batteries over the course of the three-year
24 pilot program. As a greater number of batteries are deployed across Evergy’s service
25 territory, this pilot and the evaluation will be essential to understanding how Evergy
26 can be better prepared for the benefit of all customers. We believe the proposed scale

1 strikes an appropriate balance between overall program cost and producing data that is
2 suitable to evaluate benefits and to serve as guide for design of a future program, if so
3 determined. The pilot will seek to identify and enroll target participants within the first
4 six months and begin pilot implementation in the following two years with six months
5 for the post pilot EM&V.

6 Pilot costs consider both the hardware (battery storage system, home energy
7 management control system), software (cloud support, licensing fees), installation
8 (concrete pad and battery install) and ongoing technical support.

9 Upon the conclusion of the pilot, participants will have the opportunity to
10 purchase the battery for its remaining useful life value, continue in the program and
11 pay the monthly service fee, or have the battery removed and redeployed elsewhere.

12 **Q: Why doesn't the Company utilize existing BTM storage systems installed by**
13 **customers in the proposed pilot program?**

14 A: The pilot intends to utilize Company-owned battery storage systems from a single
15 manufacturer to standardize battery sizing and design across all participants. The pilot
16 will track and measure data in real time from the battery provider's demand response
17 management system ("DRMS") and will collect data through an API integration back
18 to the Company's distributed energy resource management system ("DERMS") for
19 broader visibility and management. This approach will reduce uncertainty and ensure
20 consistency in data used to determine results.

21 **Q: Why should Evergy have a customer prioritization or participant criteria for the**
22 **pilot rather than allow customers with existing DERs to participate?**

23 A: The ultimate benefits of energy storage to customers may be influenced by several
24 factors such as: customer's energy use profile, customer rate schedule, smart enabling

1 DER technology, location on the grid, customer behavior and user preferences.
2 Prioritization of participants across these primary use cases will help inform the
3 impacts that battery storage has on a broader base of customers. Mr. Seaver discounts
4 the need for this valuable program on the unsubstantiated accusation that “participating
5 customers to be all Company employees or board members”. If the Commission is
6 concerned that Evergy would select on that basis, Evergy will commit to ensuring that
7 employees and Board members be excluded from this small pilot of 50 BTM systems.

8 **Q: What feedback can you provide on witness Seaver’s System Advisor Model**
9 **(“SAM”) analysis regarding the pilot’s financial benefits?**

10 **A:** Mr. Seaver presents a model that is not representative of the Company’s proposal by
11 any stretch of the imagination. It appears that Mr. Seaver has utilized the SAM to assess
12 a project utilizing a 20-year power purchase agreement (“PPA”) structure with the
13 customer utilizing third-party project financing. It appears that his model is used to
14 assess a project in which a customer would purchase a battery, finance the battery and
15 sell all of the energy produced by the battery back to the Company using a PPA-type
16 structure. We reach these conclusions by examining the metrics provided by Mr.
17 Seaver as follows (where the letters provided correspond to the information provided
18 in the table entitled ‘Metrics’ appearing on page 11 of Seaver’s testimony).

19 Model Assumptions Used

- 20 ▪ A residential customer would purchase and install a battery
- 21 ▪ The customer would finance the purchase with a 20-year loan obtained from a
22 third-party lender

1 year project finance structure as part of this pilot, which would increase the battery cost
2 over the life of the project to nearly \$500,000 per battery. Therefore, the analysis and
3 conclusions as presented by OPC are not applicable to the Company's proposed RBES
4 program but rather is an entirely different type of program design.

5 **Q: What is your response to Seaver's recommendation to leverage existing data from**
6 **similar pilots in place of the proposed pilot program?**

7 A: The Company disagrees with witness Seaver's response to leverage existing data from
8 similar pilots in place of its proposed pilot program. The Company sees a considerable
9 opportunity to advance its operational knowledge of how battery energy storage
10 systems can be utilized to achieve customer savings and grid benefits. Leveraging a
11 pilot specific to the Company's customer base and grid will provide primary data that
12 will support peak demand reduction for all Evergy customers. Second, there is no
13 assurance that the results of "similar pilots" will provide meaningful insights due to the
14 many regional differences which exist across the country in terms of grid design,
15 regional consumption patterns, and regulatory programs which influence results.
16 Lastly, this pilot is consistent with the objectives of Section 393.1610 RSMo. which
17 provides for Commission approval of this type of pilot.²⁴ Evergy is proposing a well-
18 thought-out pilot that is forward thinking and important to understanding BTM storage
19 adoption and impact to grid. We continue to recommend that the Commission approve
20 our pilot as proposed.

²⁴ Section 393.1610 states, The commission may approve investments by an electrical corporation in small scale or pilot innovative technology projects, including but not limited to renewable generation, micro grids, or energy storage, if the small scale or pilot project is designed to advance the electrical corporation's operational knowledge of deploying such technologies, including to gain operating efficiencies that result in customer savings and benefits as the technology is scaled across the grid or network.

1 **VIII. LOW-INCOME SOLAR (“LIS”) SUBSCRIPTION PROGRAM**

2 **Q: Do you agree with OPC Witness Seaver’s recommendation that the proposed**
3 **Schedule Low Income Solar (“LIS”) Program schedule include a cost sharing**
4 **mechanism similar to Evergy’s existing “Solar Subscription Program” (“SSP”)**
5 **schedule?**

6 A: No.

7 **Q: What is Seaver’s proposed cost sharing mechanism?**

8 A: Schedule SSP, which is the tariff for the Company’s existing Solar Subscription
9 Program, includes a provision where Evergy shareholders are responsible to cover 75%
10 of the cost of the unsubscribed solar blocks for the program once that resource is
11 operational. OPC witness Seaver proposed a similar cost sharing mechanism for the
12 LIS program, except that the Company be responsible for 90% of the cost of the
13 unsubscribed solar blocks for the program.

14 **Q: What are the Company’s concerns with this recommendation?**

15 A: The LIS program does not have some of the same other parameters of Schedule SSP,
16 which has an impact on the cost sharing mechanism.

17 **Q: Please explain.**

18 A: First, Schedule SSP tariff was designed with other provisions, such as the Company
19 would establish a sign-up list and achieve a minimum of 90% prior to moving forward
20 with constructing the resource. The Company has since reached that threshold and
21 received a Certificate of Need and Necessity from the Commission to construct the
22 Hawthorn solar generating facility. The Hawthorn solar facility was sized to also fulfill
23 the Company’s obligations under Section 393.1665 RSMo. The Company expects the
24 Schedule SSP to be over 100% subscribed with a waiting list by the time the solar

1 resource is operational. In other words, the Company was not immediately at risk to
2 fund the unsubscribed solar blocks until customer demand first demonstrated an ability
3 to support the size of the resource needed to serve the program.

4 In the case of the proposed LIS program, the Company has not proposed to
5 similarly first get approval to do a LIS program, and then build another solar resource
6 to serve the program once the demand catches up to the minimum sizing needed to cost
7 effectively build the solar resource. Instead, the Company has proposed that, if
8 approved by the Commission, the resource need will be met by transferring solar blocks
9 from the portion of the Hawthorn solar facility that was built for and will be paid for
10 by all Evergy Missouri Metro and Evergy Missouri West customers under Section
11 393.1665 RSMo. As customers sign up for the LIS program, an accounting adjustment
12 will be made that will shift the cost burden from all Evergy Missouri Metro and Evergy
13 Missouri West customers to customers of the LIS program. This approach benefits LIS
14 program participants because it reduces the wait time to participate in an approved
15 program once demand is shown because it is leveraging a resource already approved
16 and built.

17 **Q: Was this contemplated and explained when the Company sought a Certificate of**
18 **Convenience and Necessity (“CCN”) from the Commission?**

19 A: Yes, it was.

20 **Q: How does the Company propose cost allocation would be handled for the LIS**
21 **Subscription Pilot Program?**

22 A: In the event a LIS Subscription Pilot Program is approved in this rate case, the cost
23 allocation for the 5 MW portion of the 10 MW Project built to comply with Section
24 393.1665 RSMo. and split evenly across all Evergy Missouri Metro and Evergy

1 Missouri West customers will be adjusted. It will be adjusted in that as low-income
2 customers sign up for the LIS Subscription Pilot Program (up to 0.5 MW for each
3 Missouri utility jurisdiction), a corresponding share of the cost is removed from the
4 cost of service for all customers of that utility.

5 Furthermore, the Unanimous Stipulation and Agreement signed by the
6 Company, Staff, Renew Missouri, and OPC in the same docket also contains the
7 following language in footnote 5 in Paragraph 12:

8 1 MWac (0.5 MWac or 1,000 shares each for Evergy Missouri West
9 and Evergy Missouri Metro) of the Project is proposed to meet the
10 needs of a low-income solar program in the Company's ER-2022-
11 0129 and ER-2022-0130 pending rate cases. In the event that a low-
12 income solar program utilizing this portion of the Project is not
13 ultimately approved by the Commission as part of these rate cases,
14 the Signatories agree that this remaining 1 MWac (or 0.5 MWac
15 each for Evergy Missouri West and Evergy Missouri Metro) will
16 also be available to meet the demand for future Solar Subscription
17 Pilot Rider participants. All Evergy Missouri Metro and Evergy
18 Missouri West customers (split evenly) are responsible to pay for
19 prudently incurred costs related to this 1 MW portion until such time
20 either 1) the proposed low income solar program is approved in
21 some form as part of the rate case or, if not approved 2) following
22 the rate case completion, the demand for the Solar Subscription
23 program increases to the point where these associated shares are
24 transferred from all Evergy Missouri Metro and Evergy Missouri
25 West customers paying for the 1 MW portion to SSP customers per
26 the process outlined in Paragraph 12.

27 **Q: If an LIS Program is approved, and after the solar shares are transferred into the**
28 **LIS Program once the 0.5 MW demand threshold is reached for each jurisdiction,**
29 **what happens if there is churn in the program and certain LIS participants who**
30 **signed up no longer participate?**

31 **A:** Once the initial tranche for each territory has been fully subscribed, the Company will
32 create an active customer waitlist. If a customer elects to unenroll the next enrolled
33 customer for that corresponding jurisdiction will be eligible to join the active program

1 queue. In the event that the LIS program falls below its 0.5 MW threshold for each
2 jurisdiction after the initial transfer of solar shares from the Section 393.1665 RSMo.
3 portion of the Hawthorn solar facility, I believe this program should be treated
4 consistent to how the Unanimous Stipulation treated the same issue for Section
5 393.1665 RSMo. solar shares transferred to the Schedule SSP program.

6 **Q: What is that treatment?**

7 A: Paragraph 12 of the stipulation states:

8 As the waiting list of Evergy Missouri West or Evergy Missouri
9 Metro customers reaches 1,000 shares (0.5 MWac), Evergy will
10 include each additional 0.5 MWac portion in the total portions of the
11 Project designated as solar subscription assets and will apply the
12 same fuel adjustment clause impacts to this new total as was
13 applicable to the original allocation

14 In other words, once solar shares are transferred from the Section 393.1665
15 RSMo. portion of the Hawthorn solar project to the Schedule SSP, then that creates a
16 new baseline of subscription level and, per the Schedule SSP tariff, shareholders are
17 responsible to cover 75% of the cost of the unsubscribed solar blocks for the program.
18 It seems reasonable that the Company would be held to this same provision for the LIS
19 program as well after shares are transferred to the program to fulfill demand for the LIS
20 program.

21 **IX. ANNUALIZATION ADJUSTMENT FOR MEEIA DEMAND REDUCTION**

22 **Q: Did Staff make an adjustment for the annualized energy and demand savings**
23 **from Evergy's MEEIA programs?**

24 A: No. While Staff witness J Luebbert adjusts for annualized energy savings from MEEIA
25 programs, he does not adjust for annualized demand savings from MEEIA's programs.

1 **Q: Does Staff explain why they do not adjust for MEEIA demand savings?**

2 A: No. However, in the 2018 rate case (ER-2018-0145 and ER-2018-0146), Staff witness
3 Robin Kliethermes indicates in her Rebuttal testimony that hourly demand load shapes
4 were needed “for each [MEEIA] measure type” to make such a demand adjustment.

5 **Q: Given that, did Evergy provide load shapes for Staff to adjust for MEEIA demand**
6 **savings in this case?**

7 A: Yes. Evergy provided end-use hourly load shapes in this case in response to data
8 requests²⁵. An end-use is a grouping of measures by type and therefore these load
9 shapes can be utilized by Staff.

10 **Q: Should MEEIA demand be included in the Company’s annualization adjustment?**

11 A: MEEIA programs realize kW and/or kWh savings - sometimes one or both depending
12 on the end-use measure. Evergy employs a rigorous evaluation, measurement and
13 evaluation process ("EMV") that utilizes a third-party, independent contractor to
14 determine the energy and demand savings that results from its MEEIA programs. This
15 process also requires significant stakeholder participation and review. Given that both
16 MEEIA demand and energy savings impact revenue, it is my expectation that both
17 would be adjusted by Staff in the annualization adjustment. Please refer to the Direct
18 testimony of Albert Bass regarding how MEEIA energy and demand savings were
19 reflected in the Company's direct case.

20 **Q: Does that conclude your testimony?**

21 A: Yes, it does.

²⁵ ER-2022-0130 DR MPSC 0223 and ER-2022-0129 DR MPSC 0225.

**BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI**

In the Matter of Evergy Metro, Inc. d/b/a Evergy)
Missouri Metro's Request for Authority to) Case No. ER-2022-0129
Implement A General Rate Increase for Electric)
Service)

In the Matter of Evergy Missouri West, Inc. d/b/a)
Evergy Missouri West's Request for Authority to) Case No. ER-2022-0130
Implement A General Rate Increase for Electric)
Service)

AFFIDAVIT OF KIMBERLY H. WINSLOW

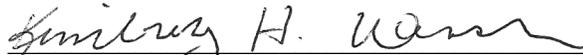
STATE OF MISSOURI)
) ss
COUNTY OF JACKSON)

Kimberly H. Winslow, being first duly sworn on her oath, states:

1. My name is Kimberly H. Winslow. I work in Kansas City, Missouri, and I am employed by Evergy Metro, Inc. as Senior Director, Energy Solutions.

2. Attached hereto and made a part hereof for all purposes is my Rebuttal Testimony on behalf of Evergy Missouri Metro and Evergy Missouri West consisting of thirty-two (32) pages, having been prepared in written form for introduction into evidence in the above-captioned dockets.

3. I have knowledge of the matters set forth therein. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and belief.



Kimberly H. Winslow

Subscribed and sworn before me this 13th day of July 2022.



Notary Public

My commission expires: 4/26/2025

