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BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

In the Matter of the Application of Rocky Mountain Power for Authority to Increase its Retail Electric Utility Service Rates in Utah and for Approval of its Proposed Electric Service Schedules and Electric Service Regulations

Docket No. 20-035-04

PREFILED DIRECT TESTIMONY OF

DOUGLAS J. HOWE

ON BEHALF OF

WESTERN RESOURCE ADVOCATES

September 15, 2020

1 **I. IN**

INTRODUCTION AND SUMMARY

2 Q: Please state your name, employer, position, and business address.

A: My name is Douglas J. Howe. I am an energy policy analyst and am testifying on behalf
of Western Resource Advocates (WRA). My business address is 624 E. Alameda St.,
Unit 16, Santa Fe, New Mexico 87501.

6 Q: Please describe your work experience and educational background.

7 A: I currently serve as a Director of the Western Grid Group, a project of the Center for 8 Energy Efficiency and Renewable Technologies, which serves as a consultants and 9 advisors to legislators and regulators throughout the west. I am an appointed member of 10 the Board of Directors of the New Mexico Renewable Transmission Authority. In 2016, 11 I was elected to the inaugural Governing Body of the Western Energy Imbalance Market 12 and served as its Chair and Vice-Chair. In 2011, I was appointed by the governor of 13 New Mexico as a Commissioner on the New Mexico Public Regulation Commission. 14 Prior to that, I served as the Senior Director of the Global Power Consulting Group of 15 IHS CERA, a global energy consulting firm. Previously I was Vice President of 16 Regulatory Policy at GPU, Inc., a multi-national utility company. I have a Ph.D. and 17 M.S. degrees in mathematics from the University of Pennsylvania, and a B.S degree from 18 Kansas State University. I graduated from the Advanced Management Program of the 19 Fuqua School of Business at Duke University. My CV is attached as WRA 20 Exhibit__(DJH-1).

21	Q:	Have you previously testified before the Public Service Commission of Utah
22		("Commission")?
23	A:	No, this is the first testimony that I present at the Commission. I have previously
24		presented direct testimony at the New Mexico Public Regulation Commission, the
25		Colorado Public Utility Commission, the Arizona Corporation Commission, the Public
26		Utility Commission of Nevada and the Michigan Public Service Commission.
27	Q:	On whose behalf are you testifying today?
28	A:	I'm testifying on behalf of WRA.
29	Q:	What is the purpose of your testimony?
30	A:	I support the Company's proposal to eliminate the third tier energy rate on rate Schedule
31		1 for residential customers. However, I do recommend an addition to the proposal. With
32		respect to Schedule 1, I agree that phasing out the inclining block rate (IBR) is
33		appropriate, but the Company should also be directed to completely phase out the IBR
34		schedule as the default residential rate and propose a new time-of-use (TOU) rate as the
35		default residential rate at the next general rate case, assuming the completion of necessary
36		metering and billing system upgrades. ¹ At the very least, the Company should have a plan
37		in place, by its next rate case, for implementing a residential default TOU rate. As
38		PacifiCorp shifts away from a rate designed to promote efficiency and conservation (i.e.

¹ Pacificorp is in the process of installing advanced metering infrastructure (AMI) capability throughout its Utah service territory, and this capability can be leveraged for a default residential time of use rate. However, according to the Company, at this time, the Company's customer billing system cannot receive billing determinants from the AMI; therefore, in order to deploy advanced rates, such as TOU rates, Pacificorp must replace or upgrade its billing system in addition to updating its metering capabilities. *See, infra*, note 15.

39		an inclining block rate), it is in the public interest to move toward a more advanced rate
40		design that has both system and customer benefits (i.e. TOU rates).
41		The Commission should direct PacifiCorp to work with stakeholders, including the
42		Division of Public Utilities, the Office of Consumer Services, and Western Resource
43		Advocates, as well as other interested parties, to evaluate TOU rates and best practices
44		for transitioning to TOU rates, as well as develop a plan for a transition to a residential
45		default TOU rate.
46	II	DISCUSSION – Residential Rate Schedule 1.
46 47	II Q:	DISCUSSION – Residential Rate Schedule 1. Please describe the existing residential Schedule 1.
46 47 48	П Q: А:	DISCUSSION – Residential Rate Schedule 1. Please describe the existing residential Schedule 1. As described by Mr. Meredith, ² the Company's default residential schedule is a seasonal
46 47 48 49	П Q: А:	DISCUSSION – Residential Rate Schedule 1. Please describe the existing residential Schedule 1. As described by Mr. Meredith, ² the Company's default residential schedule is a seasonal tiered rate. The energy rates are shown in Table DJH-1.
46 47 48 49 50	Ш Q: А:	DISCUSSION – Residential Rate Schedule 1. Please describe the existing residential Schedule 1. As described by Mr. Meredith, ² the Company's default residential schedule is a seasonal tiered rate. The energy rates are shown in Table DJH-1. Table DJH-1: Existing Schedule 1 Energy Rates
46 47 48 49 50	П Q: А:	DISCUSSION – Residential Rate Schedule 1. Please describe the existing residential Schedule 1. As described by Mr. Meredith, ² the Company's default residential schedule is a seasonal tiered rate. The energy rates are shown in Table DJH-1. Table DJH-1: Existing Schedule 1 Energy Rates Summer: May through September Price (¢/kWh)

First 400 kWh	8.8498
Next 600 kWh	11.5429
Over 1000 kWh	14.4508
Winter: October through April	Price (¢/kWh)
First 400 kWh	8.8494
Over 400 kWh	10.7072

² Direct Testimony of Robert M. Meredith, UPSC Docket No. 20-035-04, 26:540.

53		and \$12.00 per month for three-phase customers. There is a minimum monthly bill of
54		8.00 for single-phase customers and 16.00 per month for three-phase customers ³ .
55		There are also a number of adjustments that can be applied (i.e. Schedules 91, 94, 98,
56		193, 196 and 197). ⁴
57	Q:	What changes is the Company proposing for Schedule 1?
58	A:	The company proposes to differentiate the customer charge into a single-family charge of
59		\$10.00 per month, an increase of \$4.00 per month over the current charge, and a multi-
60		family charge of \$6.00 per month, as it is currently. The Company states that this
61		differentiation is justified by the higher per-customer fixed costs of customer service,
62		billing and local infrastructure to serve a single-family residence than for a family that
63		resides in a multi-family residence. ⁵ The Company also proposes certain changes to
64		adjustors contained in Schedules 94, ⁶ 98 ⁷ and 197. ⁸ The Company also proposes
65		eliminating the minimum monthly charge as being redundant with the customer charge. ⁹

There is, in addition, a customer charge of \$6.00 per month for single phase customers

- However, my testimony will address only the energy charges, which the Company 66
- proposes to reduce to two-tiers in the summer, as shown in Table DJH-2.¹⁰ The Company 67

⁴ <u>https://www.rockymountainpower.net/content/dam/pcorp/documents/en/rockymountainpower/rates-</u> regulation/utah/rates/080 Summary of Effective Rate Adjustments.pdf ⁵ Direct Testimony of Robert M. Meredith, 19:412.

52

⁹ *Ibid*, 25:522.

³ <u>https://www.rockymountainpower.net/content/dam/pcorp/documents/en/rockymountainpower/rates-</u> regulation/utah/rates/001_Residential_Service.pdf

⁶ *Ibid*, 66:1348.

⁷ *Ibid*, 67:1365.

⁸ *Ibid*, 13:275.

¹⁰ *Ibid*, 32:629.

has also proposed to designate the month of May as a winter month, in contrast to its

69 current summer designation; however, I have not taken a position on this proposal.

70

Table DJH-2: Proposed Schedule 1 Energy Rates

Summer: June through September	Price (¢/kWh)				
First 400 kWh	9.5280				
Over 400 kWh	12.2211				
Winter: October through May	Price (¢/kWh)				
First 400 kWh	8.4319				
Over 400 kWh	10.8152				

71

72 Mr. Meredith also explains that the rate differentials were based on the load-weighted

averages of the 15-minute market (FMM) Western Energy Imbalance Market (EIM)

74 PacifiCorp East (PACE) electricity load aggregation point (ELAP).¹¹

Q: Why is the Company proposing to eliminate the third summer tier and move May
from the summer to the winter season?

77 A: Mr. Meredith has explained that an IBR design has a number of flaws that make it

78 unsuitable as a residential default rate.¹² It can be inferred from his testimony that

- eliminating the third tier would be a first step in the eventual elimination of the IBR
- 80 design.¹³ Mr. Meredith also explains that the PACE EIM ELAP load-weighted price is

¹¹ Direct Testimony of Robert M. Meredith, 32:638.

 $^{^{12}}$ *Ibid*, 27:559 – 31:619.

¹³ *Ibid*, 31:625.

81 the lowest in May of all the months and therefore May should be grouped with the winter82 months.

83 Q: Do you agree that the IBR design is flawed as described by Mr. Meredith?

84 A: Yes, I generally agree that it is flawed for most of the reasons laid out by Mr. Meredith. From my perspective, the main problem with IBR is that it is a blunt tool that only 85 86 incentivizes conservation for the sake of conservation. Historically, it made sense to 87 conserve for the sake of conservation because utility generation portfolios relied almost 88 exclusively on resources that were capital intensive (coal and nuclear), exposed to 89 extreme price volatility (gas), were limited (hydro) or had significant environmental 90 impacts (all of the previous). As renewable resources, especially wind and solar, 91 become a larger portion of utility resource portfolios, conservation for the sake of 92 conservation is not necessarily the right message to consumers. For example, the IBR 93 design would not, and cannot, motivate beneficial electrification applications.

94 Q: W

What do you mean by beneficial electrification?

A: In this context, I am using the term beneficial electrification to mean the use of electricity
to offset another form of energy which results in a net release of fewer harmful emissions
such as NOx, SOx, CO, CO₂, particulates, mercury, lead, and ozone. A prime example
would be electric vehicles, which would be disincentivized under an IBR design.

99 Depending upon the overall emissions profile of the utility, it could also disincentivize

100	other applications like efficient electric heat pumps and commercial applications like
101	electric versus gas chillers.

102As stated in the testimony of WRA witness Aaron J, Kressig,14 WRA advocates for103beneficial electrification, particularly transportation electrification, because it is critical104for improving Utah's air quality (particularly along the Wasatch Front) and for reducing105climate impacts.

106 Q: What do you propose?

107 A: I would advise that the Commission direct the Company to eliminate the second tier of 108 the residential IBR, effectively making Schedule 1 a flat, seasonal rate, at its next general 109 rate case (GRC). I would also advise that the Commission direct the Company to file a 110 residential time-of-use (TOU) rate at that time. The Company has stated that it is in the 111 process of implementing AMI capability throughout its system and that the CSS system would need significant changes in order to accommodate "advanced" rates.¹⁵ It is unclear 112 113 from the Company's response what constitutes an "advanced" design for purposes of the 114 CSS and whether that precludes all TOU rates or not. Therefore, I would recommend 115 that a residential TOU rate become the default rate when the capability to manage 116 widespread TOU rates is implemented in the Company's CSS, if it currently does not 117 possess that capability. In that event, a flat, seasonal rate could remain as an "opt-in" 118 residential rate.

¹⁴ Direct Testimony of Aaron J. Kressig, 6:102 – 9:155.

¹⁵ Response to WRA Data Request 3.5, attached as WRA Exhibit_(DJH-2).

119 Q: Please explain why a TOU rate would be a better option for residential customers?

120 A: TOU rates are a better option than an IBR for influencing consumption since they provide 121 a more nuanced approach to rate design and provide more levers to influence 122 consumption in parallel to state policy. Time-varying rates range the spectrum from 123 purely seasonal rates (e.g. summer vs. winter rates) to an hourly rate based on real-time 124 market signals. Consumer rates can therefore be designed to meet specific objectives, 125 such as designing higher rates for hours, months or seasons in which the marginal 126 production cost is higher; the average or marginal emissions rate is higher; or, the 127 demand is higher.

128 Q: Are there disadvantages to a TOU rate compared to an IBR?

A: Except for seasonal rate designs, the main disadvantage of a TOU rate is the need for a
more sophisticated (i.e. more expensive) meter that records not just how much electricity
was consumed between meter reads, but when it was consumed in that month. This has
been the main historic reason that TOU rates have been disfavored compared to IBR.
There is also potential for inequitable impacts to customers based on their ability to
respond to price signals, but this is the main reason that a flat, seasonal rate should be
maintained on an opt-in basis.

136 Q: Do other utilities use time-varying rates as the default rate for customers?

A: It is not yet commonplace. Many utilities have a default "basic" rate schedule that is
either a single kWh rate for all electricity consumed, possibly on a seasonal basis, or an

IBR, but also have several opt-in TOU rate options.¹⁶ However, some utilities and
regulatory commissions are considering TOU rates as the default. For example,
Xcel/Colorado (i.e., the Public Service Company of Colorado), has a pending case¹⁷
which would implement a default TOU rate, with an opt-out to a basic rate, when that
utility's AMI implementation is completed in 2022-23. I would anticipate that within the
next several years, many more utilities, especially in the West, will be implementing
similar residential rate schedules.

146 Q: Do you have recommendations regarding TOU rate design?

147 A: Yes. To implement a residential TOU rate design, it is necessary to segment the 8760 148 hours of an average year into "periods," each of which will have a different rate 149 associated with it. Determining which hours go into which periods depends upon the 150 objective(s) that the TOU rate is influencing through a price signal: higher rates in a 151 period tell the customer to use less electricity in that period, lower rates in a period tell 152 the customer to shift usage into that period whenever possible. Note that a TOU rate can 153 induce both conservation and usage shifting, whereas an IBR induces only conservation. 154 High rate periods are assigned a "peak" price, low rate periods an "off-peak" price. Most 155 TOU rates differentiate peak and off-peak prices by season. Many TOU rate designs also 156 incorporate a "shoulder" period, which is mid-priced between peak and off-peak rates. 157 A few TOU rate designs have also begun to incorporate "super-peak" prices, which can 158 be quite high but last for only 1-2 hours typically. Super-peak pricing can be useful in

¹⁶ See for example: Arizona Public Service Company, Tucson Electric Power Company, Public Service Company of New Mexico, Salt River Project, Xcel/Minnesota, Xcel/Wisconsin to name a few.

¹⁷ Colorado Public Utility Commission, Docket No. 19AL-0687E.

managing very high load periods when the system could be under stress. Sometimes
super-peak pricing is not assigned to a fixed period but rather is called by the utility on an
as-needed basis.

162 Q: What are some examples of periods that could be employed in a TOU rate design?

163 A: Most often, the peak zone coincides with the hours during which the utility is deploying

164 the most expensive resources. Historically, this has also coincided with the hours during

165 which the utility's load is at its highest because utilities have historically dispatched

166 resources on a merit-basis, i.e. increasing from lowest to highest cost resources.

167 However, as renewable resources have become a larger portion of utility resources, it is

168 not necessarily the case that the most expensive resources (in terms of \$/MWh) are

169 deployed during the highest load period.¹⁸ Therefore, a TOU rate that is designed with

170 higher rates in the peak load periods may not look the same as a TOU rate that is

designed with higher rates in the peak marginal cost periods (see Figures DJH-1, DJH-2,

172 DJH-3, below, for example). A further refinement is possible if the TOU rate is designed

173 with peak periods coinciding with high emission hours. This is an approach being

174 considered by the Colorado Public Utility Commission.¹⁹

175 A "heat map" is often used to determine the hours to be included in each pricing zone.

176 Figures DJH-1, DJH-2 and DJH-3 are heat maps for load, price and emissions,

177 respectively, using EPA and EIM data for the PacifiCorp East balancing area authority.

¹⁸ For example, solar production is typically highest during mid-day when loads may also be highest. However, the solar production tends to reduce the marginal unit to a less expensive resource than would be used in a system with no solar production.

¹⁹ Colorado Public Utility Commission, Docket No. 19AL-0687E, Public Service Company of Colorado.

178 In each figure, the redder the month and hour, the higher the load, price or emissions,

MAY

Figure DJH-1: Heat Map of Gross Load (MW)

JUN

JUL

AUG

SEP

ост

NOV

DEC

179 respectively.²⁰

Houring Starting

JAN

FEB

MAR

APR

²⁰ Explanatory Note on Figure Data: the data used in Figures DJH-1, DJH-2 and DJH-3 excludes weekends. The emissions and gross load data were obtained from the EPA Air Markets Program Data, for units owned/operated by PacifiCorp and PacifiCorp Generation, for the dates 11/1/16 to 10/31/19, for the states of Utah and Wyoming. The EIM data was obtained from Exhibit RMP___(RMM-8) – Large Customer TOU Re-Design, Tab EIM 15min).

194														
				F	igure I	DJH-2	: Heat	Map o	of EIM	ELAF	PRIC	E		
195		Hour												
		Starting	JAN 24.22	FEB 25.97	MAR 19.59	APR	18.85	JUN 20.82	JUL 25.10	AUG	SEP 23.12	OCT 24.28	NIOV 25.12	DEC 26.61
		1	22.77	27.57	19.75	17.77	16.52	19.41	22.45	24.42	22.01	22.94	23.84	25.87
106		2	22.72	27.66	18.91	16.85	14.98	18.47	22.26	22.62	21.15	22.22	23.28	25.28
190		3	23.69	29.88	19.57 24.37	20.36	15.28	17.91	21.18	21.88	20.95	22.52	24.72	25.99
		5	29.59	50.12	34.04	39.55	24.31	21.60	23.93	26.52	26.86	30.35	33.41	31.72
		6	36.23	63.66	38.22	35.61	24.37	21.05	21.57	26.46	29.07	35.65	36.69	36.77
197		8	29.58	36.09	25.46	28.90	18.61	19.22	23.06	23.68	27.26	29.33	41.16	45.30
		9	26.83	29.75	18.35	19.72	17.38	16.89	23.84	24.29	22.44	24.31	24.66	30.70
		10	25.11	25.99	15.79	17.09	17.76	18.75	28.43	25.98	22.31	22.13	23.02	27.62
108		11	23.03	23.54	13.42	17.50	15.69	19.43	29.39	28.77	22.53	22.07	21.43	23.82
190		13	20.87	21.68	10.41	14.95	17.64	21.60	35.53	34.59	24.88	22.97	20.79	23.66
		14	21.43	19.07	10.32	15.03	16.45	23.33	39.32	40.03	25.41	23.08	22.62	25.20
		15	31.46	34.01	11.80	15.59	20.83	36.14	37.11	54.17	39.88	24.39	43.19	37.02
199		17	41.11	62.29	22.72	19.42	19.44	31.84	40.22	72.65	49.57	56.32	41.48	40.20
		18	37.38	71.73	31.82	33.38	30.51	52.18	48.43	86.95	73.53	70.37	36.45	38.63
		20	33.43	46.92	34.70	57.23	40.27	38.77	39.91	56.64	32.03	36.16	34.00	35.94
200		21	30.33	39.33	27.65	28.28	34.99	27.55	32.97	40.13	28.61	32.89	30.11	33.61
200		22	27.35	35.40	25.60	24.94	23.39	28.58	31.13	33.30	26.47	31.38	31.47	30.47
		23	24.73	34.19	22.30	21.76	23./3	23.62	27.97	28.13	24.68	25.85	27.87	27.34
201		Houring		Fig	gure D	JH-3:	Heat N	/Iap of	Emiss	ions ((C O2 to	ns)		
202		Starting	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ост	NOV	DEC
		0	2835	2588	2266	1867	1789	2258	2768	2855	2627	2515	2577	2910
		1	2784	2536	2218	1773	1704	2161	2671	2762	2546	2480	2516	2887
203		3	2756	2513	2184	1699	1643	2073	2578	2683	2485	2454	2480	2884
205		4	2776	2550	2235	1792	1713	2081	2570	2672	2536	2534	2528	2910
		5	2815	2630	2326	1963	1883	2178	2631	2781	2665	2619	2601	2951
• • •		6	2872	2721	2437	2100	1947	2139	2503	2757	2717	2684	2686	2984
204		8	2961	2788	2289	1748	1705	1920	2460	2605	2477	2592	2658	2999
		9	2872	2629	2067	1621	1663	1981	2582	2670	2350	2384	2516	2917
		10	2780	2512	1937	1544	1651	2069	2743	2810	2407	2277	2436	2839
205		11	2705	2462	1864	1510	1640	2168	2862	2911	2477	2246	2407	2780
205		13	2561	2344	1793	1521	1716	2366	3034	3069	2642	2292	2380	2665
		14	2541	2319	1791	1529	1736	2442	3099	3138	2677	2302	2391	2655
• • •		15	2597	2329	1825	1570	1771	2496	3140	3184	2729	2325	2440	2691
206		16	2923	2617	2039	1760	1901	2517	3152	3232	2/93	2668	2011	3024
		18	3054	2853	2365	2040	2086	2729	3233	3277	3030	2773	2845	3119
		19	3078	2950	2569	2292	2335	2902	3276	3282	3035	2790	2847	3128
207		20	3063	2936	2567	2350	2423	2895	3231	3233	2971	2767	2840	3107
207		21	2936	2000	2401	2280	2325	2644	3051	3092	2835	2666	2697	3010
		23	2898	2699	2298	1999	1956	2417	2900	2927	2712	2550	2658	2985
• • • •														
208 209	Q:	How sh	nould t	he acti	ual rat	es in e	ach T()U pri	cing zo	one be	detern	nined?		
210	A:	Given t	he reve	enue re	quirem	ent for	the cla	iss and	the act	tual or	project	ed con	sumpti	on

211 (kWh) in each TOU period, the next step is to fix the rate ratios between each period. For

216	Q:	Are there best practices in TOU design that should be incorporated?
215		set, it is a straightforward algebraic exercise to determine the actual rates for each period.
214		that rate would be set mid-way between Peak and Off-peak. Once these parameters are
213		fix the Peak to Off-Peak (POPP) ratio. If there was to be a Shoulder zone, then typically
212		example, if this was a simple TOU design with just a peak and off-peak rate, one would

- 217 A: There are a number of publications that advocate certain best practices, among them are
- 218 two that I recommend, one each from the Regulatory Assistance Project (RAP)²¹ and
- 219 Rocky Mountain Institute (RMI).²² However, the main points are these: 1) overly
- 220 complex designs with many periods and rates are difficult for consumers to comprehend
- and respond to; 2) the larger the POPP ratio, the stronger the consumer response; and 3)
- the fewer hours that are included in the Peak zone, the more ability the consumer has to
- respond to the price signal.
- How large should the POPP be? For example, Arizona Public Service offers a TOU-E
- rate (one of several TOU rates) with a summer POPP ratio of 2.24; Pacific Gas and
- 226 Electric offers E-TOU-B rate with a summer POPP ratio of 1.35; and Salt River Project
- offers an E-13 rate (one of several TOU rates) with a summer POPP ratio of 2.88. In
- general, I would recommend a POPP ratio of at least 2.5, preferably 3.0.

²¹ Lazar, J., Global Best Practices in Residential Electric Rate Design, Regulatory Assistance Project, May 2013, https://www.raponline.org/wp-content/uploads/2016/05/rap-lazar-globalratedesign-camunicipalratesgroup-2013-may.pdf.

²² James Sherwood et al., A Review of Alternative Rate Designs: Industry experience with time-based and demand charge rates for mass-market customers, Rocky Mountain Institute, May 2016, https://rmi.org/wp-content/uploads/2017/04/A-Review-of-Alternative-Rate-Designs-2016.pdf, at 26.

229 **Q:** Please summarize your recommendations.

230	A:	In summary, I am recommending that the Commission approve the Company's proposed
231		changes to the Schedule 1 energy rates to eliminate the third tier. I am further
232		recommending that at the next GRC, if the AMI project is completed at that point, the
233		Schedule 1 rate become an optional flat, seasonal rate and that a TOU rate be
234		implemented as the default residential rate. If the AMI project is not completed by the
235		time of the next GRC, then I would advise that a flat, seasonal Schedule 1 rate be the
236		default residential rate and that the TOU rate be offered as an option to those customers
237		with the AMI installed.
238		In recognition of the fact that the Company's billing system may not be capable of
239		calculating or billing TOU rates, my alternative recommendation is that when PacifiCorp
240		files its next general rate case, the Company should have a plan for implementing a
241		residential default time of use rate.
242		In either case, the introduction of a residential TOU rate should be developed in
242		consultation with the Division of Public Utilities, the Office of Consumer Services, and
243		consultation with the Division of Fublic Outlines, the Office of Consumer Services, and
244		other stakeholder, including Western Resource Advocates.
245	Q:	Do you have any other comments?
246	A:	There is policy support for transportation electrification in Utah, which WRA witness
247		Aaron J. Kressig discusses this in his direct testimony. ²³ As Utah moves proactively
248		toward widespread EV adoption, it will be necessary to design electricity rates that

²³ Direct Testimony of Aaron J. Kressig, 8:130 – 10:180.

- 249 encourage smart charging and other behavioral changes that will keep system costs low
- 250 for all ratepayers.
- 251 **Q:** Does this conclude your testimony?
- 252 A: It does.