

1 **Q. Please state your name, business address and present position with PacifiCorp,**  
2 **dba Rocky Mountain Power (“the Company”).**

3 A. My name is Joelle R. Steward. My business address is 1407 West North Temple,  
4 Salt Lake City, Utah 84116. My present position is Director, Rates & Regulatory  
5 Affairs for the Company.

6 **Qualifications**

7 **Q. Briefly describe your education and professional background.**

8 A. I have a B.A. degree in Political Science from the University of Oregon and an  
9 M.A. in Public Affairs from the Hubert Humphrey Institute of Public Policy at the  
10 University of Minnesota. Between 1999 and March 2007, I was employed as a  
11 Regulatory Analyst with the Washington Utilities and Transportation Commission.  
12 I joined the Company in March 2007 as a Regulatory Manager, responsible for all  
13 regulatory filings and proceedings in Oregon. In February 2012, I assumed  
14 responsibilities overseeing cost of service and pricing for PacifiCorp. In May 2015,  
15 I assumed my current position, with broader oversight over Rocky Mountain  
16 Power’s regulatory affairs in addition to the cost of service and pricing  
17 responsibilities.

18 **Q. Have you appeared as a witness in previous regulatory proceedings?**

19 A. Yes. I have testified in regulatory proceedings in Idaho, Oregon, Utah, Washington  
20 and Wyoming.

21 **Purpose and Summary of Testimony**

22 **Q. What is the purpose of your testimony?**

23 A. My testimony explains and supports the Company's filing and the proposed new  
24 tariffs – Schedule 136, Net Metering Program, and Schedule 5, Residential Service  
25 for Customer Generators. I also (i) explain the Company's proposal for new or  
26 updated application fees for interconnection requests based on a more current  
27 assessment of the administrative costs and (ii) sponsor the conforming changes in  
28 the interconnection agreements.

29 **Q. Please summarize your testimony.**

30 A. The Company has experienced extensive growth in net metering since the  
31 Commission initiated this proceeding following the Company's 2014 general rate  
32 case. In light of that growth, the Company implemented the framework established  
33 by the Commission in the first phase of this proceeding to evaluate whether the  
34 costs of the net metering program exceed the benefits, as required by Utah Code §  
35 54-15-105.1(1). The framework analysis is based on calendar year 2015 results,  
36 which coincides with the availability of data from the Company's load research  
37 study for residential net metering. The results of this analysis show that, under the  
38 current rate structure, the costs of net metering exceeded the benefits by \$2.0  
39 million in 2015, of which \$1.7 million is related to residential net metering  
40 customers. This cost impact has already increased to at least \$6.5 million per year  
41 due to the growth in net metering in 2016. The Company estimates that, by 2020,  
42 the cost shift would be \$27 million per year based on current growth projections.  
43 As a result, other customers will see higher rates in the future in order to pay for

44 these costs. The analysis shows that residential net metering customers pay only  
45 about 60 percent of the cost to serve them, whereas other residential customers pay  
46 on average 96 percent of their costs.

47 This result is largely attributed to the current rate structure for residential  
48 net metering customers. The current residential rate structure was designed to  
49 recover most costs through volumetric energy rates. Net metering customers  
50 currently receive compensation for their excess generation at the retail energy rate.  
51 Since this retail energy rate recovers most of the fixed costs necessary to serve  
52 customers, net metering customers are being compensated as much as 14.5  
53 cents/kilowatt-hour ("kWh"), far in excess of the value of their energy to the  
54 system. In comparison, the Company pays small power producers less than 4  
55 cents/kWh for their solar output through avoided cost prices.

56 Data from the load research study shows that the profile of residential net  
57 metering customers is distinctly different and, while those customers may take less  
58 energy (kWh) from the grid than before, their overall demand (kW) requirements  
59 are not reduced proportionally. Since most costs are driven by demand, the energy-  
60 based rate structure does not adequately cover costs to serve residential customer  
61 generators. The magnitude of the cost shift is not as significant for non-residential  
62 net metering customers because their rate structure already better captures  
63 differences in usage profiles among customers in the same class. To minimize the  
64 residential cost shift, the Company is proposing a new rate schedule and rate  
65 structure – Schedule 5, Residential Service for Customer Generators – for  
66 residential customers who apply to participate in net metering after the effective

67 date of the proposed transitional net metering program tariff, Schedule 135A, which  
68 was filed concurrently with this compliance filing.

69 For Schedule 5, the Company is proposing a three-part rate structure,  
70 comprised of a monthly customer charge of \$15.00; a demand charge for the peak  
71 periods of 3:00 p.m. to 8:00 p.m., Monday through Friday year round, with an  
72 additional peak period from 8:00 a.m. to 10:00 a.m., Monday through Friday in the  
73 winter months of October through April; and an energy charge. This rate structure  
74 will send a better price signal to individual customers because their rates will more  
75 closely align with the way costs are allocated in the cost of service study. Similar  
76 to non-residential rates, this rate structure rewards customers who use the grid more  
77 efficiently (i.e., higher load factor customers) with lower average rates. Residential  
78 customer generators would still receive compensation through the energy charge,  
79 which more closely approximates the cost to the Company to provide the equivalent  
80 energy. As such, a new residential net metering customer who uses about 1,000  
81 kWh per month can still achieve bill savings between 11 percent and 60 percent,  
82 from their current bill, depending on how much their generation facility is able to  
83 offset their usage.

84 On Schedule 136, the Company is proposing to eliminate the option for new  
85 non-residential customers to receive compensation for their excess energy at the  
86 average retail rate, since this rate includes recovery of fixed costs. Non-residential  
87 customers may still choose between the two other compensation options, which are  
88 tied to avoided costs.

89           The Company is also proposing to increase the current net metering  
90 application fees. The increases are necessary to cover the administrative costs  
91 necessary to process applications. For Level 1 interconnections, the Company  
92 proposes to implement a one-time application fee of \$60. For Level 2 and 3  
93 interconnections, the Company proposes increasing the current fees to \$75 plus  
94 \$1.50 per kW, and \$150 plus \$3.00 per kW, respectively.

95           Lastly, to alleviate concerns the filing will result in increased revenues for  
96 the Company outside of a general rate case, the Company is willing to defer any  
97 difference in revenues between current rates and the new rates on Schedule 5. The  
98 Company would make a proposal for amortization of the deferral balance in its next  
99 general rate case.

#### 100 **Purpose of Filings**

101 **Q.    Why is the Company making this filing?**

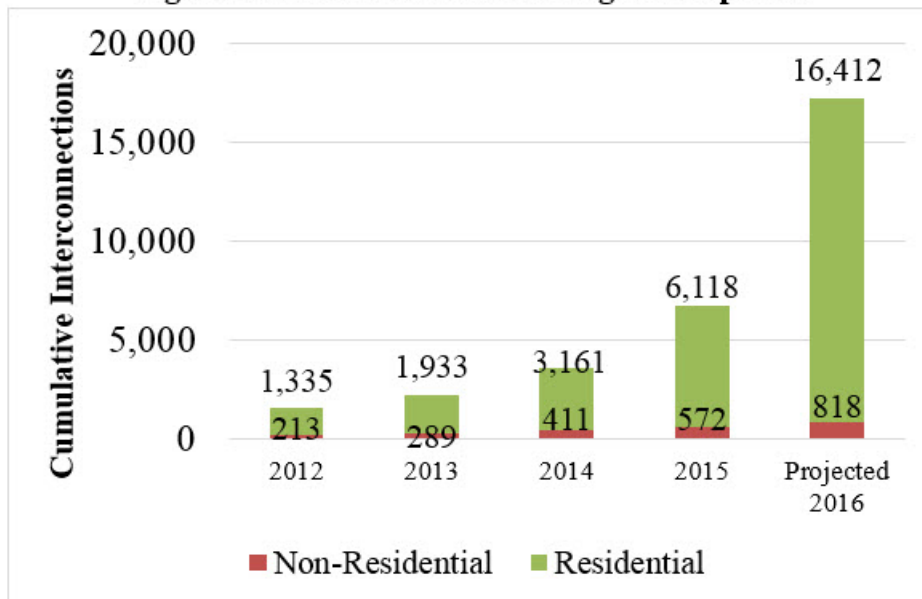
102 A.    In 2014, the Utah Legislature enacted Utah Code § 54-15-105.1 ("Net Metering  
103 Statute"), requiring the Commission to determine whether the costs of net metering  
104 exceed its benefits or vice versa and, if so, to determine an appropriate charge,  
105 credit, or rate structure based on that determination. The Commission initially  
106 considered this issue in the Company's 2014 general rate case, Docket No. 13-035-  
107 184 ("2014 GRC"), but opened Docket No. 14-035-114 to make the determinations  
108 mandated by the Net Metering Statute. The Company prepared the analyses set  
109 forth by the Commission's November 10, 2015 Order in Docket No. 14-035-114  
110 (the "November 2015 Order") to evaluate whether the costs of net metering  
111 program exceed the benefits or the benefits exceed the costs. The Company used a

112 calendar year 2015 study period (“Study Period”) for the analyses, which  
113 corresponds with the data collected from the Company’s load research study for  
114 residential net metering customers. Over the Study Period, the Company had an  
115 average of about 5,000 net metering customers.

116 **Q. Please summarize the current and forecast growth in net metering.**

117 A. Since the Company initially raised concerns about cost shifting due to net metering  
118 in the 2014 GRC, there has been an increase of over 600 percent in the number of  
119 net metering participants. The Company is now seeing approximately 1000 new  
120 applications each month. The vast majority -- approximately 97 percent -- are from  
121 residential customers. With this growth rate, the Company projects that it will have  
122 over 16,000 residential net metering customers with nearly 100 MW of private  
123 customer generation in Utah by the end of 2016. Figure 1 below shows the growth  
124 in net metering by residential and non-residential.  
125

**Figure 1. Growth in Net Metering Participation**



126 Growth in private generation is expected to continue into the future. For the  
127 2017 Integrated Resource Plan, the Company commissioned an independent study  
128 to project the level of private generation growth over the next two decades based  
129 on updated information on technology costs, performance, incentives, and market  
130 conditions. This study projects an average of 40.5 MW per year of new private  
131 generation capacity in Utah over the next two decades in the base case.<sup>1</sup>

132 **Q. Please summarize the analyses ordered by the Commission in the November**  
133 **2015 Order.**

134 A. In its November 2015 Order, the Commission established a framework that  
135 evaluates whether and how the net metering program impacts rates for other  
136 customers. The framework provides multiple views through two different analyses  
137 for perspective on how other customers' rates may be impacted by the net metering  
138 program.

139 The first analysis compares two cost of service studies over a test period;  
140 one that reflects the actual cost of service with net metering customers' participation  
141 (the "ACOS" study), and one under which the Company uses its best efforts to  
142 estimate what the cost of service would be if net metering customers produce no  
143 electricity (the "CFCOS" study). The Commission ordered that both the ACOS and  
144 CFCOS studies reflect costs and benefits at the system, state, and customer class  
145 levels. The second analysis segregates net metering customers in the ACOS study  
146 from the class in which they participate ("NEM Breakout COS" study). For

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<sup>1</sup> Private Generation Long-Term Resource Assessment (2017-2036), Navigant Consulting, Inc., July 29, 2016, at 26. [http://www.pacificorp.com/content/dam/pacificorp/doc/Energy\\_Sources/Integrated\\_Resource\\_Plan/2017\\_IRP/PacifiCorp\\_IRP\\_DG\\_Resource\\_Assessment\\_Final.pdf](http://www.pacificorp.com/content/dam/pacificorp/doc/Energy_Sources/Integrated_Resource_Plan/2017_IRP/PacifiCorp_IRP_DG_Resource_Assessment_Final.pdf)

147 example, a separate residential net metering customer class is created in the cost of  
148 service study, which shows the impact net metering customers have on the  
149 residential non-net metering class and how well they recover the costs to serve  
150 them.

151 The Commission adopted this multi-part evaluation framework to fulfill the  
152 legislative requirements set in Utah Code § 54-15-105.1(1) (“Subsection One”).  
153 The Commission determined that, since Subsection One is intended to be useful for  
154 rate structure setting under Utah Code § 54-15-105.1(2) (“Subsection Two”), the  
155 analysis necessarily must be conducted in a manner and on a period commensurate  
156 with rate setting. By relying on the cost of service model, which is a key  
157 consideration in the development of rates for all customers, the Commission’s  
158 framework is consistent with the legislative direction and provides practical results  
159 that will inform rate structuring.

160 **Q. What are the results of implementing the evaluation framework directed by**  
161 **the Commission?**

162 A. The analyses show that the current net metering program results in higher rates for  
163 other customers. Table 1 below summarizes the results of the comparison of the  
164 ACOS and CFCOS studies and shows that, for the Study Period, the net metering  
165 program increases costs to customers in Utah at the system, state, and class levels.  
166 Table 2 below summarizes the results for the NEM Breakout COS study. The direct  
167 testimony of Company witness Mr. Robert M. Meredith explains the inputs and  
168 presents the results of these analyses in more detail.



169

**Table 1. Net Cost/(Benefit) of the Net Metering Program**

|                            | Cost<br>(000) | Benefit<br>(000) | Net Cost/<br>(Benefit)<br>(000) |
|----------------------------|---------------|------------------|---------------------------------|
| System Level               | \$5,010       | (\$1,287)        | \$3,722                         |
| State Level                | \$5,010       | (\$2,960)        | \$2,049                         |
| Residential                | \$ 3,540      | \$ (1,881)       | \$ 1,659                        |
| Schedule 23                | \$ 504        | \$ (405)         | \$ 100                          |
| Schedule 6                 | \$ 673        | \$ (650)         | \$ 23                           |
| Schedule 8                 | \$ 240        | \$ (395)         | \$ (155)                        |
| Schedule 10                | \$ 29         | \$ (21)          | \$ 7                            |
| Other Classes              | \$ 22         | \$ 393           | \$ 415                          |
| Total Customer Class Level | \$ 5,009      | \$ (2,960)       | \$ 2,049                        |

170

**Table 2. Actual Cost of Service Results of Segregated Net Metering Classes**

|             | <b>Parity to Cost of Service</b> |                    |             |
|-------------|----------------------------------|--------------------|-------------|
|             | ACOS                             | ACOS<br>W/O<br>NEM | ACOS<br>NEM |
| Residential | 96.0%                            | 96.1%              | 60.6%       |
| Schedule 23 | 107.2%                           | 107.3%             | 92.2%       |
| Schedule 10 | 95.3%                            | 95.1%              | 89.8%       |
| Schedule 6  | 107.7%                           | 107.7%             | 109.2%      |
| Schedule 8  | 104.1%                           | 104.0%             | 109.0%      |

171

These results show that, for the residential class, the current net metering

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program results in higher rates for other residential customers.

173

**Q. Why does the net metering program result in higher rates for other customers?**

174

A. The primary reason is because the revenue received from net metering customers

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does not cover the costs of serving them. This is shown explicitly in Table 2 where

176

the net metering residential class is paying only about 61 percent of their cost of

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service. In contrast, the other residential class pays 96 percent of their cost of

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service. Mr. Meredith’s Exhibit RMP\_\_(RMM-1) shows that the net cost shifted to

179

other residential customers from net metering is approximately \$400 per year per

180 residential net metering customer. This means that the rates for other residential  
181 customers are or will be increased to cover the costs incurred to serve residential  
182 net metering customers. The analyses take into account the unique characteristics  
183 of net metering customers and the value provided by their private generation  
184 systems. Despite the benefits created by their private generation systems, the  
185 current rate structure does not adequately recover the costs to serve them and  
186 essentially over-compensates residential net metering customers for their  
187 generation.

188 This result is largely caused by the fact that the current residential rate  
189 structure relies on recovering most costs through volumetric energy rates. As the  
190 results in Tables 1 and 2 show, the magnitude of the net metering cost shifting for  
191 the non-residential rate classes isn't as significant. This disparity is due to the  
192 difference in the rate structures between residential and non-residential rates that I  
193 will discuss later in my testimony.

194 **Q. What is the potential impact of the cost shift to other residential customers if**  
195 **net metering is not addressed soon?**

196 A. While the analysis for the 2015 Study Period shows a cost shift for residential net  
197 metering in Utah of \$1.8 million under the NEM Breakout, extrapolating that level  
198 of cost shifting to current residential net metering participation as of October 7 of  
199 this year produces a cost shift of \$6.5 million due to the rapid growth in  
200 installations. By 2020, the cost shift would be about \$27 million per year based on  
201 the current growth projections. At the current net metering program cap of 923 MW  
202 (i.e., 20 percent of the 2007 peak load) set by the Commission in Docket No. 08-

203 035-78, the potential cost shift to other customers would be approximately \$78  
204 million annually. Over the next 20 years, the cumulative cost shifting related to  
205 residential net metering is estimated to be approximately \$667 million.

206 In order to minimize this cost shift, the Company is proposing to close the  
207 current net metering program to new customers and to implement modifications to  
208 the program that will mitigate cost shifting while providing more appropriate  
209 compensation to net metering customers. In light of the adverse impacts on other  
210 customers, the Company is proposing net metering program and residential rate  
211 changes for customer generators in order to moderate future impacts.

## 212 **Overview of Proposed Tariff Revisions**

213 **Q. Please summarize the Company's proposed tariff revisions to address cost**  
214 **impacts of the net metering program on other customers.**

215 A. In conjunction with Tariff Advice No. 16-13, filed concurrently with this  
216 Compliance Filing, the Company is requesting approval of the following:

- 217 1. Revisions to Schedule 135, Net Metering Service, to close it to new service,  
218 effective after December 9, 2016;
- 219 2. Schedule 135A, Net Metering – Transition Service, effective after  
220 December 9, 2016;
- 221 3. Schedule 136, Net Metering Program, effective June 1, 2017, for  
222 modifications to the net metering program for applications received after  
223 December 9, 2016; and

224 4. Schedule 5, Residential Service to Customer Generators, effective June 1,  
225 2017, for new rates to residential customers who submit applications for net  
226 metering after December 9, 2016, and are interconnected.

227 Exhibit RMP\_\_(JRS-1) contains the proposed tariffs for Schedule 136 and  
228 Schedule 5. In addition to these tariff changes, the Company proposes changes to  
229 the application fees currently authorized by R746-312-13. The proposed  
230 application fees are based on the Company's experience and actual costs to process  
231 net metering applications. Exhibit RMP\_\_(JRS-2) contains revisions to the  
232 interconnection agreements to update the application fee changes in this filing, as  
233 required by R746-312-17(1)(f).

234 **Q. Please explain the Company's proposed tariff changes in Advice No. 16-13.**

235 A. Advice No. 16-13 seeks modifications to Schedule 135, Net Metering Service, to  
236 close it to new service and to implement a new Schedule 135A, Net Metering –  
237 Transition Service. Schedule 135A mirrors the current Schedule 135 with the  
238 exception that it includes the following provision in the Availability Section:

239 Customers will be subject to all changes to net metering service including  
240 changes to credits, charges or rate structures offered herein and in related  
241 tariffs resulting from the final determination under Utah Code Ann. § 54-  
242 15-105.1 which may include, without limitation, a transfer from this tariff  
243 to all new applicable service schedules approved by the Commission.

244 The Company proposes to have Schedule 135A in effect until the Commission  
245 makes a determination on Subsection Two of the Net Metering Statute and  
246 substantive modifications to the net metering program, which the Company seeks

247 in the present Compliance Filing. The Company is proposing an effective date of  
248 December 10, 2016, for the tariff changes in Advice No. 16-13. The Company is  
249 requesting these tariff changes for Schedules 135 and 135A to provide interim  
250 service to customers that submit applications for net metering service under terms  
251 consistent with the current program.

252 **Q. Why is the Company proposing the changes in Advice No. 16-13?**

253 A. To mitigate potential cost shifts to other customers, the Company proposes to  
254 implement Schedule 135A as a transition tariff that will provide explicit notice  
255 to new net metering applicants that there may be changes to the service and rates  
256 for net metering customers following the conclusion of this proceeding. Without  
257 this transition tariff and notice, the Company would expect a significant  
258 groundswell of new program applications in the hopes that any program  
259 modifications would not apply to net metering customers for whom applications  
260 had been received or interconnections completed prior to the final Commission  
261 determination in this proceeding. The advice filing includes revisions to the  
262 standard interconnection and net metering service agreements to reference the tariff  
263 schedule change.

264 **Q. Please explain proposed tariff Schedule 136.**

265 A. Schedule 136 provides net metering service with modifications to address cost  
266 shifting as reflected in the results of the analyses directed by the Commission. As  
267 discussed by Company witness Mr. Gary Hoogeveen, since the costs of distributed  
268 generation, in particular rooftop solar photovoltaic, have significantly decreased

269 over the last few years, incentives in the form of the current retail rates are no longer  
270 necessary. The specific changes to the program include:

- 271 1. A new provision that requires residential customers who participate in the  
272 net metering program to take electric service under the proposed Schedule  
273 5, Residential Service for Customer Generators; and
- 274 2. Elimination of the option for large non-residential customers to receive  
275 compensation for excess generation at the average retail rate.

276 I address each of these in more detail below. The other features of the net metering  
277 program remain unchanged.

#### 278 **Overview of Schedule 5 - Electric Service for Customer Generators**

279 **Q. Please summarize the Company's proposal to implement a new rate schedule**  
280 **for residential customer generators, Schedule 5.**

281 A. The Company is proposing a new rate structure for residential customer generators  
282 who participate in the net metering program under Schedule 136. The proposed rate  
283 structure will more directly capture the benefits these customers bring in rate setting  
284 as well as the costs, on both a class level and individual customer level, and will  
285 minimize cost shifting to other customers. Specifically, the Company is proposing  
286 a rate structure similar to that used for non-residential customers, comprised of a  
287 monthly customer charge, a peak demand charge, and an energy charge. Exhibit  
288 RMP\_(JRS-3) and Table 3 below show the proposed rates for Schedule 5.

Table 3

| <b>Schedule 5 - Residential Service for<br/>Customer Generators</b>   |                           |
|---|---------------------------|
|   | <b>Proposed<br/>Price</b> |
| <b>Customer Charge</b>  |                           |
| 1 Phase   | \$15.00                   |
| 3 Phase   | \$30.00                   |
| <b>Demand Charge</b>  |                           |
| On-peak (\$/kW)*  | \$9.02                    |
| <b>Energy Charge</b>  |                           |
| All kWh (¢/kWh)   | 3.8143                    |
| *On-peak periods with 60 minute interval:<br>October - April 8:00 a.m. to 10:00 a.m.<br>and 3:00 p.m. to 8:00 p.m.,<br>May - September 3:00 p.m. to 8:00 p.m.,<br>Monday-Friday, except holidays. |                           |

290 **Q. How were these rates calculated?**

291 A. While the ACOS and CFCOS are useful for evaluating the impacts of the net  
292 metering program, the NEM Breakout COS study is more instructive in rate  
293 structuring under Subsection Two in the Net Metering Statute, as the Commission  
294 noted in its November 2015 Order.<sup>2</sup> Accordingly, the Company used the cost of  
295 service from the NEM Breakout COS study results presented in this filing and  
296 adjusted the results to the revenue requirement and current rates approved by the  
297 Commission in the Company's 2014 GRC. In this way, the new rates on Schedule  
298 5 for customer generators are consistent with the revenue requirement and rates  
299 designed to recover that revenue requirement for all customers approved by the

<sup>2</sup> November 2015 Order, at 11.

300 Commission in the 2014 GRC. The NEM Breakout COS results are used as the  
301 starting point because they reflect the usage characteristics of the net metering class  
302 from the 2015 load research study. The adjustment process from the current cost of  
303 service study to the 2014 GRC is explained in more detail in Mr. Meredith's direct  
304 testimony.

305 **Q. Why is the Company proposing this new rate schedule for only residential net**  
306 **metering customers?**

307 A. As shown above, the cost of service analyses demonstrate that as a result of the  
308 large credit residential net metering customers receive through current rates for  
309 their excess generation, other customers' rates will increase in order to recover the  
310 same costs over fewer volumes. While the overall magnitude of the cost shifting is  
311 relatively small now, providing a separate rate schedule and a new rate structure for  
312 residential net metering customers will minimize the impact on other customers and  
313 reflect the different characteristics of residential net metering customers.

314 In addition, as Mr. Meredith's testimony shows, the cost shifting concern is  
315 less significant or even non-existent for non-residential classes. As I'll show later,  
316 the rate structures for non-residential customers already send better price signals  
317 and accommodate differences in load profiles for customers within the class, so  
318 costs are less likely to be under-recovered. For these reasons the Company is not  
319 proposing changes to the rate structures for non-residential net metering customers  
320 at this time. However, I do recommend elimination of the option for compensation  
321 at the average retail rate for excess energy for large non-residential customers, as  
322 discussed further below.

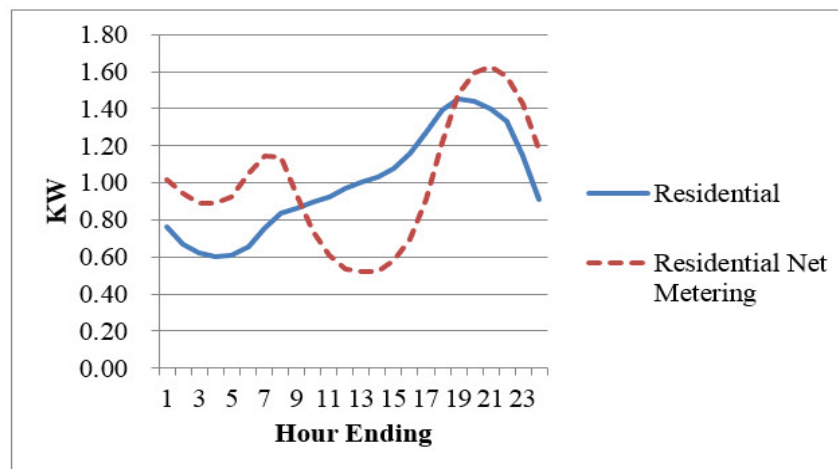


323 **Q. How are the characteristics of residential net metering customers different**  
324 **from other residential customers?**

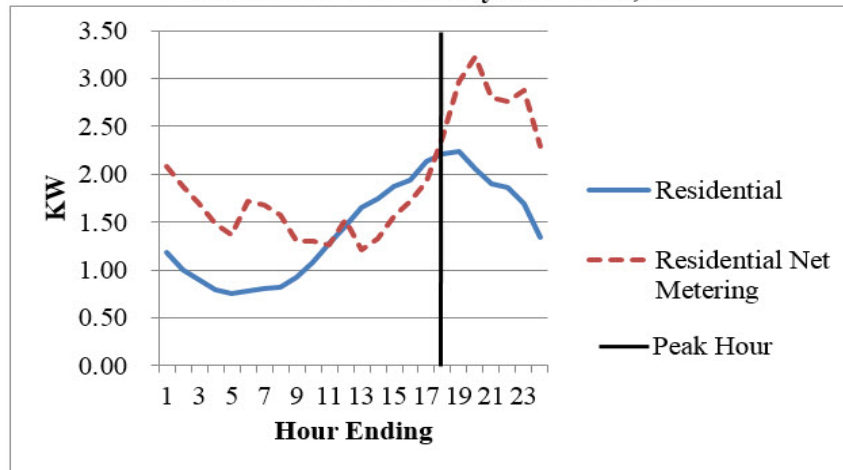
325 A. Data from the Company's load research study for residential net metering  
326 customers, discussed in more detail in Mr. Meredith's testimony, shows that  
327 customers with on-site private generation have a different load profile than other  
328 residential customers, but not necessarily a different peak requirement. Figures 2  
329 and 3 compare the profiles from the 2015 study. Figure 2 is the average annual  
330 hourly load and Figure 3 is the peak day.

331

**Figure 2. Average Annual Load Profile of Residential and Residential Net Metering Customers**



**Figure 3. Load Profile of Residential and Residential Net Metering Customers on the Peak Day on June 30, 2015**



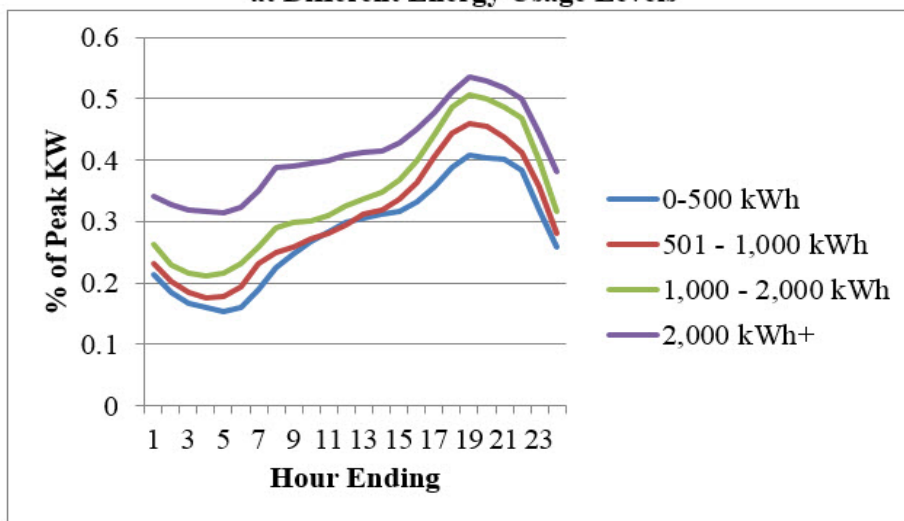
333 As Figure 2 shows, while net metering customers may take less energy  
 334 (kWh) from the grid, their overall demand (kW) requirements from the grid may  
 335 remain relatively unchanged. However, since costs associated with demand are  
 336 recovered in the energy charges, net metering customers get credited for demand-  
 337 related costs through the netting process for excess generation output, even though  
 338 they continue to place a demand requirement on the system. In contrast to non-  
 339 residential customer rate designs, the residential rate structure does not adequately  
 340 capture the demand requirements placed on the system to serve these customers  
 341 because it largely relies on energy charges. Net metering customers' usage also  
 342 results in lower load factors for net metering customers compared to other  
 343 residential customers. Lower load factors have more variability in usage and are  
 344 more costly to serve than flatter, more consistent usage patterns.

345 **Q. Aren't net metering customers similar to small use customers if they are**  
346 **partially served by their own generation?**

347 A. No. Almost all net metering customers have solar private generation systems. The  
348 peak energy output of these solar systems occurs in the middle of the day prior to  
349 the timing of both the system and class level peaks. As a result of this output, the  
350 energy requirements for these customers are reduced, but the peak demand is either  
351 unchanged or reduced very modestly. This results in lower (less efficient) load  
352 factors for these customers. In contrast, the profile for all residential customers is  
353 very consistent between different energy usage levels. Figure 4 below shows a  
354 comparison of the profiles among different energy usage levels in the load research  
355 sample for all residential customers.

356

**Figure 4. Average Annual Residential Load Profiles at Different Energy Usage Levels**



357 In addition to lower load factors, residential net metering customers  
358 fundamentally use the system differently than low energy-use residential  
359 customers, since they use the energy grid not only to receive energy from the  
360 Company's facilities, but also to export excess energy that they produce to the

361 Company's system. Table 4 below shows the difference in average characteristics  
 362 between residential customers with and without generation.

363 **Table 4. Differences in Customer Characteristics**

| Characteristic              | Unit                | W/O Generation | With Generation | Difference |
|-----------------------------|---------------------|----------------|-----------------|------------|
| Energy Delivered            | Average Monthly kWh | 725            | 743             | 2.4%       |
| Energy Exported             | Average Monthly kWh | 0              | 303             |            |
| Behind the Meter Energy     | Average Monthly kWh | 0              | 234             |            |
| Maximum Non-Coincident Peak | Average kW          | 7.13           | 11.05           | 55.0%      |
| Customers per Transformer   | -                   | 6.34           | 4.12            | -35.0%     |
| Average Meter Cost          | \$                  | 106.75         | 162.00          | 51.8%      |

364 **Q. Please explain why demand costs are an important consideration in cost**  
 365 **allocations and rate designs.**

366 A. A customer class's demand requirements – the class's usage during the single hour  
 367 of each of the system coincident peaks and state distribution coincident peaks –  
 368 significantly influences cost incurrence and allocation. For instance, Table 5 below  
 369 shows the difference in cost drivers in the cost of service study for the residential  
 370 class in the ACOS and then the residential class in the NEM Breakout COS. Table  
 371 5 shows that over 60 percent of costs are allocated on demand-based measurements.  
 372 Most of the Company's costs are allocated in class cost of service studies on  
 373 demand-based measurements because the system is designed to serve load at  
 374 different peaks.

375 **Table 5. Residential Cost Allocation Drivers**

|            | All Residential | Residential Non-NEM | Residential NEM |
|------------|-----------------|---------------------|-----------------|
| Allocation | ACOS            | ACOS Breakout       | ACOS Breakout   |
| Demand     | 62.9%           | 63.0%               | 64.8%           |
| Energy     | 28.6%           | 28.6%               | 20.3%           |
| Customer   | 8.5%            | 8.4%                | 14.9%           |

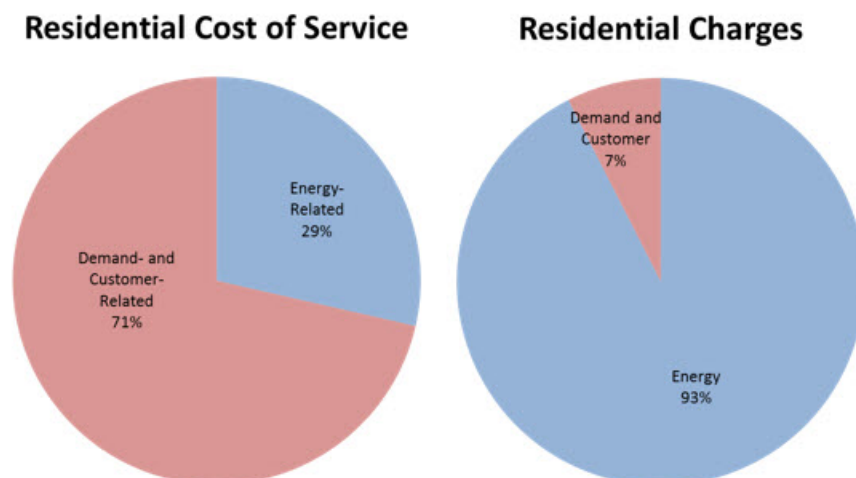
376 **Q. Please elaborate on why providing a credit at the current full retail rate is**  
377 **problematic.**

378 A. As the NEM Breakout COS study demonstrates (see Table 2 above), the cost of  
379 service results for residential net metering customers are different than the results  
380 for other residential customers; residential net metering customers contribute about  
381 61 percent to the cost of serving them, compared to other customers who cover  
382 about 96 percent of the costs to serve them. This difference is due to the current net  
383 metering compensation approach, which provides a credit for a customer's private  
384 generation output at the full retail rate.

385 Currently, recovery of nearly all of the infrastructure costs for the electric  
386 system allocated to residential customers is achieved entirely through energy rates.  
387 Figure 5 below shows that while approximately 70 percent of residential costs are  
388 demand- or customer-related costs, over 90 percent of the revenue comes from  
389 variable energy-related charges.

390

**Figure 5. Residential Cost of Service and Charges**



391 As a result of current residential rate design, the credit that net metering  
392 customers receive for generation output in excess of their usage includes the costs  
393 for the infrastructure required to serve them. The residential retail rate ranges from  
394 8.5 cents per kWh to 14.5 cents per kWh. In contrast, the Company purchases  
395 power from third-party developers through avoided cost pricing at less than 4 cents  
396 per kWh, so the purchase of excess output from net metering customers is more  
397 costly to other customers than if the Company had generated the energy itself or  
398 purchased it from a third party.

399 **Proposed Rate Structure**

400 **Q. Please describe what is included in each of the proposed rate components for**  
401 **Schedule 5.**

402 A. The proposed rates are comprised of the following costs:

- 403 • The monthly customer charge of \$15.00 is designed to recover costs related to  
404 customer services and certain components of the distribution system,  
405 specifically service lines, meters, and line transformers. This customer charge  
406 assumes that the Commission adopts the Company's proposed application fee  
407 for Level 1 net metering customers, discussed later in my testimony. The  
408 Company proposes to recover the program administrative costs through a one-  
409 time application fee rather than through base rates. The customer charge would  
410 be higher if the administrative costs associated with handling applications is not  
411 recovered through a separate, one-time fee.
- 412 • The demand charge is designed to recover the remaining distribution-related  
413 costs (substations, poles and conductors) and the demand-related generation

414 and transmission costs. The demand charge would be applied against the  
415 customer's highest demand during a 60-minute interval during the on-peak  
416 periods. The Company is proposing to set the on-peak period from 3:00 p.m. to  
417 8:00 p.m. during the summer months of May through September, and 8:00 a.m.  
418 to 10:00 a.m. and 3:00 p.m. to 8:00 p.m. in the winter months of October  
419 through April. The on-peak period is Monday through Friday, excluding  
420 holidays.

- 421 • The energy charge is designed to recover all remaining costs, which include net  
422 power costs.

423 **Q. What are the advantages of this rate structure?**

424 A. The proposed rate structure balances the regulatory objectives of customer  
425 understanding, cost causation, economic efficiency, revenue adequacy, intra-class  
426 equity, and inter-class equity. While a demand charge is a new element for  
427 residential customers, the Company is proposing a relatively simple structure that  
428 includes just three elements —a customer charge, a demand charge, and an energy  
429 charge – in order to balance customers' ability to understand the new structure with  
430 cost incurrence. Since customer generators are typically more sophisticated energy  
431 customers, the concept of demand or system kW requirements should be  
432 understandable because kW is typically how private generation facilities are sized  
433 and purchased. Demand charges are a standard rate design element for non-  
434 residential customers already, however, the Company's proposed demand charge  
435 for residential customer generators includes several elements that will make it  
436 easier for residential customers to manage. The rate structure also reduces the

437 likelihood that the system costs required to serve customer generators are  
438 systematically under-recovered and then shifted to other customers. The rate  
439 structure rewards higher load factor customers with a lower average rate, and better  
440 captures diversity within the class.

441 **Q Will the rates provide a price signal to customers to encourage more efficient**  
442 **use?**

443 A. Yes. Including an on-peak demand charge will send a better price signal to these  
444 individual customers than the current rate design because their rates will be in closer  
445 alignment with the different cost categories included in the cost of service study.  
446 Residential net metering customers will have an opportunity to reduce their bills by  
447 responding to these prices during the specific on-peak periods. The proposed  
448 demand charge sends a signal to both stagger and reduce appliance use during the  
449 peak period. In the short run, customers can modify their behavior so that their peak  
450 usage occurs at the same time as their generation. In the long run, customers can  
451 invest in resources that better match the timing of the peak usage. For example,  
452 they could install solar panels that are more westerly facing to produce more energy  
453 in the afternoon and early evening, which better aligns with the Company's peak,  
454 providing more benefit by reducing overall demand.

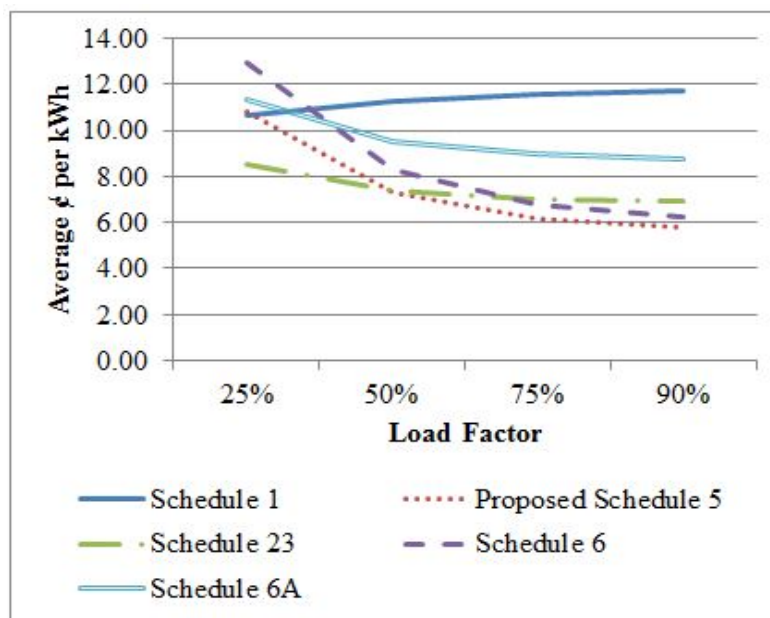
455 **Q. Please provide an example of how the rates provide better price signals.**

456 A. Unlike the rate structure for non-residential customers, the current residential rate  
457 structure with inclining energy rates directly rewards lower energy usage but not  
458 more efficient usage that helps to reduce overall system costs by also reducing  
459 demand. For residential customers, this signal to reduce overall demand is assumed



460 to be an incidental or accompanying result of reducing overall energy usage.  
461 However, as I demonstrate above, net metering customers may reduce their energy  
462 usage but not their demand, resulting in becoming lower load factor customers. The  
463 proposed rate structure on Schedule 5 will better capture this change in usage and  
464 reward improving load factors to achieve a lower average rate. Figure 6 below  
465 shows the proposed Schedule 5 rates will provide lower average rates for higher  
466 load factor customers, similar to non-residential rate structures, to reward more  
467 efficient usage of the system.

468 **Figure 6. Average Price Compared to Load Factor**



469 **Q. Please explain why \$15.00 per month is a reasonable customer charge.**

470 A. The Company is proposing to include the costs associated with customer services,  
471 meters, service lines, and transformers in the customer charge. These are essentially  
472 fixed costs and not subject to variability in customer usage.

473 **Q. Why should transformers be included in the customer charge for Schedule 5?**

474 A. Local distribution facilities such as transformers, poles, and conductors are  
475 facilities required to provide a residential customer access to electric service  
476 regardless of how much energy the customer uses. While this is true for all  
477 residential customers, net metering customers place additional burdens and reliance  
478 on these local facilities since they use them for both taking service from the  
479 Company and to export their excess generation output to the grid. The impacts of  
480 customer generation on the local distribution system, including transformers, are  
481 discussed in more detail in the testimony of Mr. Douglas L. Marx.

482 Accordingly, since customer generation relies on the local distribution  
483 system and can actually lead to additional costs to accommodate the output of  
484 excess energy onto the system, as discussed by Mr. Marx, it would not be  
485 appropriate to reflect local distribution costs in the energy credit received by net  
486 metering customers for excess energy. The Company proposes to include the cost  
487 of the transformers in the customer charge and the costs of the other local  
488 distribution facilities in the demand charge.

489 While the Company does not dedicate one transformer per customer, like  
490 meters and service lines that are included in the customer charge, the allocation  
491 approach in the cost of service study reflects the assumption that transformers are  
492 shared and a coincidence factor is used to recognize the diversity of usage that is  
493 considered with the initial sizing. In addition, a large portion of the cost of a  
494 distribution line transformer is associated with the equipment itself and does not  
495 vary with the capacity of the equipment. For example, a 25 KVA single phase pad-

496 mount transformer and a 50 KVA single phase pad-mount transformer, which are  
497 commonly installed in residential subdivisions, have average installed costs of  
498 \$4,700 and \$4,827, respectively. Although, the 50 KVA transformer provides  
499 double the demand capacity of the 25 KVA transformer, it only costs about 3 percent  
500 more. Clearly, a large proportion of the costs of these transformers do not vary with  
501 capacity and are fixed infrastructure costs necessary to serve customers.

502 **Q. Is the Company proposing a minimum bill in addition to the customer charge?**

503 A. No. The Company is proposing only a monthly customer charge of \$15.00 for  
504 Schedule 5 customers. All other charges on the bill will be subject to usage  
505 measurements.

506 **Q. How did the Company calculate the demand charge and how will this charge  
507 apply to Schedule 5 customers?**

508 A. The proposed demand charge of \$9.02 per kW is designed to recover the costs of  
509 demand-related generation and transmission, which are allocated in class cost of  
510 service studies on system coincident peaks, and distribution substations and poles  
511 and conductors, which are allocated on distribution coincident peaks. The rate was  
512 calculated by dividing these costs by the kW usage during the proposed on-peak  
513 hours. The proposed on-peak periods are: 3:00 p.m. to 8:00 p.m. during the summer  
514 months of May through September, and 8:00 a.m. to 10:00 a.m. and 3:00 p.m. to  
515 8:00 p.m. during the winter months of October through April. All weekends and  
516 holidays are excluded from the on-peak hours.

517           The charge would be applied to the customer's highest measured average  
518 kW usage during a 60 minute interval during on-peak times, during each billing  
519 cycle.

520 **Q.   How did the Company select the on-peak periods proposed for the Schedule 5**  
521 **demand charge?**

522 A.   To determine the appropriate times under which the demand charge would apply,  
523 the Company examined the timing of both system coincident and distribution  
524 coincident peaks over the last five class cost of service studies filed with the  
525 Commission. This showed that most peaks occurred in the late afternoon/early  
526 evening timeframe in the summer months and both in the late afternoon/early  
527 evening and morning during the winter. In order to keep the rate design  
528 understandable and simple, the Company identified time periods that capture the  
529 vast majority of those peaks for both seasons. Additionally, the Company is  
530 proposing to use the same defined periods for Summer (May - September) and  
531 Winter (October - April) as current rates. The proposed on-peak periods include the  
532 timing of 94 percent of the peaks. Exhibit No. RMP\_(JRS-4) shows the hourly  
533 occurrence of peaks in the Summer and Winter seasons and the on-peak period the  
534 Company selected for proposed Schedule 5.

535 **Q.   How does the proposed demand charge compare to demand charges for non-**  
536 **residential customers?**

537 A.   To moderate the impacts and make it easier for residential customers to respond to  
538 the price signal, the proposed charge is designed to apply over fewer hours, is

539 measured over a longer interval, and is a lower charge than non-residential demand  
540 charges.

541 First, the proposed demand charge applies during a smaller window of time  
542 during the day compared to non-residential rates so that customers' energy  
543 management efforts can be more targeted to those hours. During Summer, for  
544 instance, customers need to pay attention to only 5 hours per day, from 3:00 p.m.  
545 to 8:00 p.m. In contrast, the Summer on-peak period for Schedule 6A is 16 hours,  
546 from 7:00 a.m. to 11:00 p.m., and for Schedule 8 it is 8 hours, from 1:00 p.m. to  
547 9:00 p.m.

548 Second, to measure the kW usage, the Company proposes to take the  
549 average kW measurement over a 60-minute interval rather than the 15-minute  
550 interval used for non-residential customers. Averaging the usage over a longer  
551 period will help moderate impacts of sporadic appliance usage. For instance, Exhibit  
552 RMP\_(JRS-5) shows an example of usage for a number of appliances during a 60-  
553 minute period. Taking an average over the 60-minute interval produces a demand  
554 measurement of 3.4 kW, whereas taking the measurement over the highest 15-  
555 minute interval produces a measurement of 6.3 kW.

556 Lastly, the proposed demand charge for Schedule 5 is considerably smaller  
557 than non-residential demand charges.

558 **Q. Why is a time-based demand charge preferable to time-of-use energy rates for**  
559 **net metering customers?**

560 A. If these demand-related costs were included in time-of-use energy rates, they would  
561 be included in the rates that customers are compensated for in their excess energy

562 output due to the netting process. Since the customer's usage during the peak period  
563 contributed to these costs, these customers would be over-compensated for their  
564 excess energy and costs would continue to be under-recovered and shifted to other  
565 customers.

566 **Q. Please discuss the proposed energy charge.**

567 A. The energy charge recovers variable costs including net power costs and a portion  
568 of the generation and transmission investments (25 percent). The generation and  
569 transmission investment portion is consistent with the cost of service classification  
570 methodology adopted by the Commission. For customer generators, this energy  
571 charge better reflects the value of the excess kWh output by the customer facility.  
572 Under net metering, any excess kWh generated by the customer at one point in time  
573 will be offset against customer usage taken from the Company at another point in  
574 time. This energy charge more closely approximates the cost that the Company  
575 would have otherwise incurred in order to serve the customer and is a much more  
576 equitable compensation value to provide customer generators.

577 **Q. Will the proposed rates on Schedule 5 still provide value to net metering**  
578 **customers?**

579 A. Yes. Exhibit RMP\_\_(JRS-6) shows the calculation of the average offset credit  
580 under the current and proposed rates for net metering customers. The average offset  
581 credit is the value in bill savings that customers receive for every kWh their  
582 generation produces. Currently, the Company provides to net metering customers,  
583 on average, an offset credit of 10.6 cents/kWh for their generation. Under the  
584 Company's proposed rates, net metering customers will receive an average offset

585 credit of 7.1 cents/kWh. The proposed rates still provide considerable value to  
586 customer generation.

587 **Q. Have you prepared examples of the potential bill impacts for net metering**  
588 **customers on Schedule 5 compared to current Schedule 1 residential rates?**

589 A. Yes. Exhibit No. RMP\_(JRS-7) shows the comparison between the amount  
590 customers currently pay at different usage levels compared to their bills under net  
591 metering service and the proposed Schedule 5 rates. This shows that an average net  
592 metering customer who uses approximately 1,000 kWh a month can still achieve  
593 bill savings between 9 percent and about 60 percent, depending on how much of  
594 their usage they are able to offset with their generation facility.

595 **Q. Will the Company provide information to customers to help them understand**  
596 **the new rate structure on Schedule 5 and how they can better manage their**  
597 **usage?**

598 A. Yes. The Company will work with interested parties to develop information for  
599 Schedule 5 customers to help them understand the rate structure and how changes  
600 in their usage will influence their bill.

601 **Q. Will the Company allow current net metering customers on Schedule 135 to**  
602 **opt-in to net metering service on Schedule 136 and Schedule 5?**

603 A. Yes. The Company will accommodate any current residential Schedules 135 and 1  
604 net metering customer to transfer to Schedule 136 and Schedule 5. If a customer  
605 elects to transfer to Schedule 136, the customer will no longer be eligible to return  
606 to Schedule 135.

607 **Modifications to Large Non-Residential Compensation Options**

608 **Q. Please explain the current compensation options for large non-residential net**  
609 **metering customers on Schedule 135.**

610 A. Special Condition 2b in Schedule 135 provides the following options to large non-  
611 residential customers for the compensation of excess energy produced by customer  
612 generation facilities during a billing period:

613 (1) An Average Energy Price for the applicable calendar year according to  
614 the Volumetric Non-Levelized Prices shown in Schedule 37, weighted by season  
615 and on- and off-peak periods;

616 (2) A Seasonally Differentiated Energy Price for the applicable calendar  
617 year according to the Non-Levelized Prices shown in Schedule 37, weighted by on-  
618 and off-peak periods; and

619 (3) An average retail rate for the Electric Service Schedule applicable to the  
620 net metering customer as calculated from the previous year's Federal Energy  
621 Regulation Commission Form No. 1.

622 **Q. What is the difference in the value of these options for 2016?**

623 A. Table 6 below shows difference in the compensation credit for each of these options  
624 for 2016.



**Table 6**

| <b>Large Non-Residential<br/>Options</b> | <b><u>2016 Credit (¢/kWh)</u></b> |             |
|--|-----------------------------------|-------------|
|  | Baseload                          | Fixed Solar |
| Option 1. Average Sch 37 Price           | 1.8821                            | 1.5991      |
| Option 2. Seasonal Sch 37 Price          |                                   |             |
| Summer                                   | 2.0345                            | 1.7515      |
| Winter                                   | 1.8062                            | 1.5232      |
| Option 3. Average Retail Price           |                                   |             |
| Schedule 6                               |                                   | 8.4498      |
| Schedule 6A                              |                                   | 11.7871     |
| Schedule 6B                              |                                   | 10.8910     |
| Schedule 8                               |                                   | 7.5210      |
| Schedule 10                              |                                   | 7.5619      |

626 **Q. Please explain the Company's proposed changes to the large non-residential**  
627 **options in the new Schedule 136.**

628 A. The Company proposes to eliminate the third option of using the average retail  
629 price for excess energy from large non-residential customers. Table 6 above shows  
630 that the average retail rate credit option provides a credit far in excess of the avoided  
631 cost value that other small power producers would receive for the equivalent output.  
632 There is also a wide distinction on the compensation by rate schedule with  
633 customers on Schedule 6A getting 57 percent more for each excess kWh compared  
634 to Schedule 8 customers, even though there is no discernible difference in the value  
635 to the system for a kWh generated by a customer on Schedule 6A versus Schedule  
636 8.

637 Not surprisingly, Option 3 is the option selected by all large non-residential  
638 net metering customers. In 2015, large non-residential customers were credited  
639 approximately \$141,000 for their excess energy. This is 420 percent more than the

640 avoided cost value under Options 1 or 2. In contrast to the avoided cost value, the  
641 average retail rate includes recovery of fixed costs typically collected through the  
642 monthly charge and demand charges. Accordingly and as I previously discussed in  
643 regards to residential customers, the average retail rate over-compensates non-  
644 residential customers for excess energy.

645 To create consistency between large non-residential customers and to be  
646 consistent with the value provided to other small power producers, the Company  
647 proposes to use Schedule 37 avoided costs prices for fixed solar facilities, under  
648 either Option 1 or 2.

649 **Proposed Changes to Application Fees for Net Metering**

650 **Q. Please explain the Company's proposed changes to the application fees for net**  
651 **metering.**

652 A. The Company requests that the Commission waive the fees adopted in rule R746-  
653 312-13<sup>3</sup> and approve changes in the fees, including adding a fee for Level 1  
654 applications, as follows:

655 Table 7

| <b>Net Metering Application Fees</b> |                |                 |
|--------------------------------------|----------------|-----------------|
|                                      | <b>Current</b> | <b>Proposed</b> |
| Level 1                              | 0              | \$60            |
| Level 2                              | \$50           | \$75            |
| per kW                               | \$1.00         | \$1.50          |
| Level 3                              | \$100          | \$150           |
| per kW                               | \$2.00         | \$3.00          |

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<sup>3</sup> R746-312-3(2) states: For good cause shown, the commission may waive or otherwise modify any provision of this electrical interconnection rule.

656 These fees are based on an assessment of the actual costs incurred to process  
657 applications. Recovery of the costs to process the applications for net metering,  
658 particularly for Level 1, has not kept pace with the growth in applications. The  
659 modest increases in fees represent movement toward recovering the administrative  
660 costs incurred to process applications and make cost recovery more concurrent with  
661 expense.

662 **Q. How were the current application fees established?**

663 A. The current fees were established by the Commission in the rulemaking initiated in  
664 2009, Docket No. 09-R312-01, to implement standards for interconnection of  
665 electric facilities in Rule R746-312, Electrical Interconnection. These rules  
666 establish the terms and conditions upon which a customer may interconnect a  
667 generation facility to the distribution system and the review process for the utility  
668 to ensure that the interconnection will be consistent with these terms and conditions.  
669 The rules identify three potential levels of review, based on the size of the facility  
670 to be interconnected as well as the complexity of the review – Level 1 for facilities  
671 25 kW and smaller, Level 2 for facilities greater than 25 kW or that do not otherwise  
672 qualify under Level 1, and Level 3 for facilities that do not otherwise qualify under  
673 Levels 1 or 2 and require a more complex review. Mr. Marx outlines the  
674 administrative process for net metering applications in his direct testimony.

675 **Q. How did you calculate the proposed fees requested in this filing?**

676 A. The Company reviewed the actual costs incurred to process applications in 2015,  
677 the number of applications completed for each level, and the allocation of these  
678 costs by rate schedule. The allocation by rate schedule is discussed in the testimony

679 of Mr. Meredith. Exhibit RMP\_(JRS-8) shows the breakdown by level and rate  
680 schedule of applications processed during 2015. Out of about \$560,000 in costs to  
681 process the applications, the Company recovered only about \$17,000 in fees from  
682 Level 2 and Level 3 applications. Because the vast majority of applications, about  
683 99 percent, are Level 1, the majority of the costs are related to Level 1 applications.

684 To better balance cost incurrence with recovery, the Company is proposing  
685 a Level 1 fee along with increases in the fees for the other levels. Since the majority  
686 of Level 1 applications are for residential customers, the calculation of the  
687 Company's proposed Level 1 fee was based upon the average cost of processing a  
688 residential net metering application, which was about \$60. Applying the \$60 fee to  
689 all Level 1 applications would have produced about \$474,000 of application fee  
690 revenue or about 85 percent of the total \$560,000 cost to process applications in  
691 2015. The addition of a Level 1 fee removes about \$443,000 out of the costs  
692 included in proposed rates for Schedule 5. These one-time costs are more  
693 appropriately recovered through a one-time fee rather than embedded into rates. If  
694 the net metering application-related costs were alternatively recovered through the  
695 basic charge on Schedule 5, the proposed basic charge would be higher by \$8.41  
696 per month.

697 To gradually move towards better recovery of all net metering application  
698 fees, the Company proposes a uniform 50 percent increase to Level 2 and Level 3  
699 application fees. For Level 2, the Company proposes a \$25 increase to the charge  
700 per application and a 50 cent increase to the per kW charge. For Level 3, the  
701 Company proposes a \$50 increase to the charge per application and a one dollar

702 increase to the per kW charge. Increasing the application fees will reduce the costs  
703 needed in rates for other customers and retain the proportional relationship between  
704 the fees by level, without creating a barrier for participation. Based on the 2015  
705 costs, these increases are still conservative and will encourage the Company to find  
706 efficiencies in the administrative process.

707 **Deferral for Incremental Revenue from Schedule 5**

708 **Q. Would approval of the proposed tariff changes in this filing result in an over-**  
709 **collection of revenues to the Company?**

710 A. No. The Company is proposing to apply the changes to only new net metering  
711 customers that file applications after approval of Schedules 136 and 5. Since the  
712 current number of net metering customers exceeds the assumed number of net  
713 metering customers included in the forecast in the 2014 GRC by over 600 percent,  
714 current rates do not reflect the costs of serving these customers. Accordingly, the  
715 Company is absorbing the costs of net metering for current customers. The  
716 Company will continue to absorb these costs until a new rate case is filed and the  
717 costs can be captured in rates to other customers. Approval of the new Schedule 5  
718 would reduce the growing impact that will be eventually captured in rates.

719 While the Company does not expect the new structure to result in an  
720 increase in income for the Company, it will result in the higher revenues than would  
721 otherwise be achieved as a result of better reflecting the cost to serve net metering  
722 customers. To minimize the future impact on other customers, the Company  
723 proposes to defer the difference in revenue associated with the new rates on  
724 Schedule 5. In this way, the filing will be revenue-neutral for the Company.

725 **Q. Please explain how the proposed deferral would work.**

726 A. For new residential net metering customers, the Company would calculate the  
727 difference in revenues between current rates and Schedule 5 rates based on actual  
728 billed usage. This difference could be higher or lower for each customer. At the  
729 time of the Company's next rate case, the Company would make a proposal for  
730 amortization of the deferral balance.

731 **Q. Does this conclude your testimony?**

732 A. Yes.