

BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH

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| In the Matter of the Application of |) | |
| Rocky Mountain Power for Authority |) | Docket No. 13-035-184 |
| to Increase its Retail Electric Utility |) | Rebuttal COS/RD |
| Service Rates in Utah and for |) | Testimony of |
| Approval of Its Proposed Electric |) | Daniel E. Gimble |
| Service Schedules and Electric |) | For the Office of |
| Service Regulations |) | Consumer Services |

June 26, 2014

1 I. INTRODUCTION

2 Q. PLEASE STATE YOUR NAME, POSITION AND YOUR BUSINESS ADDRESS.

3 A. My name is Daniel E. Gimble. I am a manager with the Office of Consumer
4 Services. My business address is 160 E. 300 S. Rm. 201, Salt Lake City, Utah.

5

6 Q. DID YOU PREVIOUSLY PREPARE AND FILE DIRECT TESTIMONY IN THIS
7 PROCEEDING?

8 A. Yes. On May 22, 2014, I filed direct testimony in the areas of cost-of-service,
9 rate spread and residential rate design. My rate design testimony included
10 presenting the Office's recommendations on the Company's proposed residential
11 net metering (NM) facilities charge.

12

13 Q. WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?

14 A. My rebuttal testimony responds to the residential NM facilities charge
15 recommendations submitted by the Division (Powell and Fairynairz), Utah Clean
16 Energy (Wright and Gillam), The Alliance for Solar Choice (Miksis), Sierra Club
17 (Mulvaney), and Utah Citizens Advocating Renewable Energy (Rossetti) in direct
18 testimony. In responding to these recommendations, the Office outlines a
19 reasonable process for addressing the NM cost-benefit analysis as required by
20 SB 208.

21

22 II. RESIDENTIAL NET METERING

23 *Response to DPU*

24 Q. PLEASE SUMMARIZE THE DIVISION'S POSITION ON THE COMPANY'S
25 PROPOSED NM FACILITIES CHARGE.

26 A. The Division states that compensation to NM customers at the full retail rate
27 (through a reduction in consumption or a bill credit) results in a cost shift from NM
28 residential customers to non-NM customers. Since NM customers use the
29 distribution infrastructure, they impose costs on the system and should
30 accordingly pay for using that infrastructure.¹ While the Division calculates a NM

¹Powell Direct, pages 10-11, lines 206-223.

31 facilities charge of \$4.81 related to the recovery of fixed distribution and retail
32 costs, it recommends that the charge be initially set at the Company's proposed
33 level of \$4.25 month.

34 Regarding the NM requirements set forth in SB 208, the Division
35 recommends that the Commission open a new docket to explore NM costs and
36 benefits, which could be subsequently considered in a future rate proceeding.²
37

38 Q. WHAT IS THE OFFICE'S RESPONSE TO THE DIVISION'S RESIDENTIAL NM
39 FACILITIES CHARGE PROPOSAL?

40 A. The NM facilities charge proposals of the Division and Office are very similar.
41 The primary rationale for developing the charge are the same (cost causation),
42 with the differences being that the Office recommends implementing the charge
43 on a \$/kW whereas the Division proposes setting the charge initially at the
44 Company's proposed \$4.25 level. As further discussed in responding to other
45 parties below, the Office agrees with the Division's process recommendation to
46 open a separate docket to consider NM cost-benefit issues associated with SB
47 208.
48

49 Q. HOW WOULD THE SETTLEMENT IN THIS GRC, WHICH INCLUDES AN
50 INCREASE IN THE LEVEL OF THE RESIDENTIAL CUSTOMER CHARGE
51 FROM \$5.00 TO \$6.00 PER MONTH, IMPACT THE DIVISION'S NM
52 FACILITIES CHARGE CALCULATION?

53 A. The calculation should match the Office's updated "flat" charge calculation of
54 \$4.65. My Exhibit OCS 5.1R (Gimble) includes the Office's updated NM
55 calculation, which is \$1.54 on a \$/kW basis. However, I would note that in its
56 direct testimony, the Division recommended limiting the NM charge to \$4.25
57 based on the principle of gradualism.
58
59
60

² Faryniarz Direct, pages 21-22, lines 380-383.

61 *Response to UCE and TASC – Process Issues*

62 Q. PLEASE SUMMARIZE THE POSITIONS OF UTAH CLEAN ENERGY (UCE),
63 AND THE ALLIANCE FOR SOLAR CHOICE (TASC) ON THE COMPANY'S
64 PROPOSED NM FACILITIES CHARGE, AS THEY RELATE TO PROCESS
65 ISSUES?

66 A. UCE and TASC recommend that a NM facilities charge should not be imposed
67 on residential NM customers without consideration of a comprehensive cost-
68 benefit analysis across all customer classes. In particular, TASC proposes that
69 the Commission should initiate a separate, collaborative process to develop a
70 standardized approach to consider cost-benefit issues.³

71

72 Q. WHAT IS THE OFFICE'S RESPONSE TO THE NM PROCESS ISSUES
73 RAISED BY UCE AND TASC WITNESSES?

74 A. UCE and TASC have raised valid concerns regarding NM process issues. While
75 the Commission in its April 16, 2014 public notice stated that it would consider
76 NM costs and benefits in the COS phase of the case, it provided no explicit
77 direction to the Company to supplement its direct testimony with a detailed NM
78 cost-benefit analysis that the Division, Office and other parties could evaluate
79 and timely respond to in either direct or supplemental direct testimony. Further,
80 the Company did not take any initiative to supplement the record with a NM cost-
81 benefit analysis. Consequently, the Division, Office and other parties will only
82 have the surrebuttal phase of the case (three weeks with very little time for
83 discovery) to respond to any NM cost-benefit analysis filed by the Company in
84 rebuttal testimony.

85

86 Q. DID THE OFFICE PREVIOUSLY ATTEMPT TO OBTAIN RESIDENTIAL NM
87 COST AND BENEFIT INFORMATION THROUGH DISCOVERY TO THE
88 COMPANY?

89 A. Yes. Table 8 on page 23 of my direct testimony includes residential NM cost
90 data provided by the Company in response to discovery. However, the Company

³Miksis Direct, page 8, lines 7-9.

91 was unable to provide any information regarding the energy and capacity benefit
92 associated with residential NM output.⁴ Specifically, the Office sought detailed
93 information on the types of energy and capacity resources avoided by NM
94 production over different time periods. The Company's inability to timely furnish
95 any information or analysis relating to NM "benefits" continues to be a major
96 deficiency in this proceeding.

97

98 Q. WHAT IS THE OFFICE'S POSITION ON THE NM PROCESS ISSUES RAISED
99 BY UCE, TASC AND THE DIVISION?

100 A. The Office agrees with these parties that the best way of moving forward is for
101 the Commission to open a separate NM docket. The NM issues are complex and
102 require a deliberate review process. In the NM docket, the Commission should
103 do the following:

- 104 • Set a schedule for testimony and a hearing to determine whether a NM
105 credit or facilities charge is warranted for affected rate schedules.
- 106 • Direct the Company to file a NM cost-benefit analysis for all affected
107 customer classes as required by SB 208;
- 108 • Schedule a NM technical conference prior to the filing of non-Company
109 direct testimony. At the first technical conference the Company should be
110 prepared to present its NM valuation method and the cost-benefit results
111 for affected customer classes.
- 112 • Allow adequate time for the Company and interested parties to explore
113 areas of agreement and disagreement relating to method specification
114 (key modeling components, assumptions, data inputs, etc.), consistency
115 across resource planning and ratemaking proceedings, and application. A
116 collaborative process may help to narrow analytical differences among
117 parties on certain NM issues prior to filing testimony and allow the
118 Commission to conduct a more efficient hearing on disputed issues.

119

⁴See response to OCS 30.2 attached to my direct testimony.

120

121 *Rebuttal of UCARE, UCE, TASC, Sierra Club Witnesses – Other Issues*122 Response to UCARE – Mr. Rosetti

123 Q. DOES UCARE PROVIDE AN ACCURATE ASSESSMENT OF THE
124 COMPANY'S RECENT IRPs CONCERNING RENEWABLE RESOURCES
125 (ROSSETTI DIRECT, PAGE 4 , LINES 45-49)?

126 A. No. UCARE's statement that "RMP...has an integrated resource perspective
127 hostile to significant development of non-carbon energy facilities" is neither
128 objective nor accurate. To the contrary, since 2006 the Company has acquired or
129 built substantial wind resources totaling 2,152 MWs and has plans to acquire an
130 additional 450 MWs of wind in the 2024-2025 time period. The Company also
131 has achieved 5.4 million MWhs of Class 2 DSM savings since 1992.⁵ Regarding
132 coal and natural gas resources, the Company has no current plans to construct
133 new coal-fired facilities and has deferred the acquisition of new gas plants as
134 well. From an IRP standpoint, the reality is that the Company has been
135 committed to wind resources and DSM since 2006 and the Company currently
136 plans to retire the Carbon Plant, convert the Naughton Plant to natural gas and
137 retrofit other coal plants with pollution control technologies (without extending
138 plant lives). Thus, an accurate assessment of the Company's IRPs indicates that
139 the Company has not been "hostile to the development of non-carbon energy
140 facilities" but has been transitioning to an energy future that is increasingly
141 dominated by market, renewable and energy efficiency resources.

142

143 Q. UCARE STATES THAT SOLAR PV PRODUCTION REDUCES PEAK DEMAND
144 AND REDUCES STRESS ON THE GRID (ROSSETTI DIRECT, PAGE 10 LINES
145 186-187). WHAT IS THE OFFICE'S RESPONSE TO THIS CLAIM?

146 A. This claim is not supported a recent "Utility Scale Rooftop Solar" study circulated
147 by the Company to various stakeholders. Specifically, in August 2010 the
148 Company performed a residential NM study, which involved a Salt Lake City
149 circuit totaling 4 MW. The study results indicated that residential PV systems on

⁵PacifiCorp 2013 IRP, page 89.

150 this circuit primarily contributed energy to the distribution system in the 10 AM – 4
151 PM timeframe. By 7 PM when the distribution circuit was at or reaching peak
152 demand levels, the residential solar PV systems were providing very little output
153 and over 90% of the distribution infrastructure was needed to serve customers.
154 Therefore, a more accurate representation of the value of residential solar PV is
155 that this resource reduces demand during certain hours of the 7 AM – 11 PM on-
156 peak period but is not available to reduce or offset demand during the specific
157 peak hours of the day. This is an important distinction to recognize when valuing
158 the contribution of the residential NM resource because the Company still
159 needed its full system infrastructure to meet the vast majority of load on that 4
160 MW circuit during the highest load hours of the day.

161

162 Q. HAVE YOU ATTACHED THIS STUDY TO YOUR TESTIMONY?

163 A. Yes. It is attached as Exhibit OCS 5.2R (Gimble).

164

165 Q. SHOULD THE COMMISSION BE CONCERNED ABOUT CERTAIN SOCIAL
166 BENEFIT CATEGORIES PROPOSED BY UCARE?

167 A. Yes. Certain social benefits ascribed to residential NM by Mr. Rossetti on lines
168 51-56 of his direct testimony, such as the reduction of solid wastes (e.g., ash)
169 and the reduction of heated water into rivers and streams, are inconsistent with
170 the set of externalities used in resource planning to compare and evaluate
171 resource options. Using different sets of costs and benefits in different regulatory
172 processes (e.g., IRP, NM and Resource Acquisition) could create perverse
173 incentives and unintended consequences. The Office believes it is very
174 important for the Commission to ensure that it uses a consistent set of costs and
175 benefits across resource planning and ratemaking dockets, including any docket
176 involving NM. The Office will have more to say on specific cost and benefit
177 categories and related issues, assuming the Commission establishes a separate
178 NM docket to consider those matters.

179

180

181 Q. UCARE SUGGESTS THAT THE \$0.70/KW CHARGE ASSESSED BY THE
182 ARIZONA COMMISSION HAS SIGNIFICANTLY REDUCED SALES OF
183 RESIDENTIAL SOLAR SYSTEMS AND HAS THREATENED SOLAR JOBS
184 (ROSETTI DIRECT, PAGE 7, LINES 129-131). DO YOU HAVE ANY
185 RESPONSE TO UCARE'S CLAIM REGARDING REDUCED SALES AND
186 THREATENED JOBS IN ARIZONA?

187 A. Yes. In direct testimony, UCARE provided no evidence to support its assertion
188 that the \$0.70/kW charge has dampened demand for residential solar PV
189 systems or impacted solar-related jobs in Arizona. According to the Solar Energy
190 Industries Association (SEIA), the near-term effect of the Arizona Commission's
191 decision on NM policy has been to stimulate demand for residential PV systems,
192 which led to a depletion of funding for residential rebates by September 2013.⁶
193 The immediate effect appears to be more of "boom" than "bust" in Arizona with
194 investment decisions tied to more variables (residential PV system prices,⁷
195 incentives, etc.) than solely the Arizona Commission's interim net metering
196 policy.⁸ The long-term impact on demand for residential solar PV systems in
197 Arizona will likely depend on numerous factors, including changes in APS's
198 residential rates, the level of solar program incentives, changes in PV system
199 prices and any decisions rendered by the Arizona Commission in future rate
200 cases to modify the interim \$0.70/kW NM charge.

201

202 Q. MR. ROSETTI INDICATES THAT EXCESS NM CREDITS SHOULD BE
203 CONSIDERED AS A BENEFIT FROM THE NM PROGRAM. WHAT IS THE
204 OFFICE'S RESPONSE?

⁶SEIA's Solar Market Insight 2013 Q3 Report, pg. 11. These SEIA reports are also generally informative with respect to how fast solar PV installations are growing across the country. According to SEIA 2013 Q3, the increase in growth in the residential sector for 2013 is expected to be 52% over 2012 levels.

⁷According to SEIA's Solar Market Insight 2014 Q1 Report, residential system prices declined 7.0% from 2013 Q1 to 2014 Q1 and installed prices came down in a number of states, including Arizona.

⁸The NM charge in Arizona is an interim rate that will be revisited by the Arizona Commission in APS's 2015 GRC.

205 A. Mr. Rosetti misunderstands the purpose of the NM program. It is a simplified
206 rate mechanism designed to facilitate generation that offsets customer usage.
207 The Utah Statute 54-15-102(12) specifically defines net metering as follows:
208

209 “Net metering program” means a program administered by an
210 electrical corporation whereby a customer with a customer
211 generation system may: (a) generate electricity primarily for the
212 customer’s own use;
213

214 By definition, any excess NM credits should be minimal. If a customer desires to
215 be a net producer and sell its output to the utility, then other mechanisms exist to
216 do so, such as becoming a qualifying facility.

217

218 Response to UCE – Ms. Wright

219 Q. DOES THE OFFICE HAVE ANY COMMENTS ON THE RESIDENTIAL NM
220 COST-BENEFIT ANALYSIS INTRODUCED IN THE DIRECT TESTIMONY OF
221 MS. WRIGHT?

222 A. Yes. The Office has not reviewed DGValuatorV2 model used by UCE’s
223 consultant, Clean Power Research (CPR), to perform the residential distributed
224 solar “benefit’ valuation nor has the Office scrutinized the data set that appears to
225 be largely derived from information contained in PacifiCorp’s 2013 IRP and data
226 requests.⁹ With that said the Office notes two initial conceptual concerns with
227 CPR’s \$0.116/kWh levelized benefit calculation.

228 First, CPR’s analysis assumes that distributed solar only offsets a
229 combined cycle (CCCT) gas plant. In reality, the 2013 IRP (and 2013 IRP
230 Update) includes a combination of resources (FOTs, DSM, Wind and Natural
231 Gas) over the 20-year planning horizon. In particular, the 2013 IRP Action Plan
232 relies heavily on FOTs and DSM over the first 10 years of the resource planning

⁹See Ms. Wright’s direct testimony on pages 22-23, lines 438-461, for a description of the model used by its consultant, Clean Power Research, and the key data inputs. The DGValuatorV2 model was not provided as part of Ms. Wright’s testimony.

233 horizon. Thus, CPR may get a different “benefit” result, if distributed solar is
234 instead assumed to avoid 2013 IRP Resources versus a proxy resource such as
235 a gas CCCT.

236 Second, CPR’s analysis includes avoided carbon regulation costs in its
237 NM benefit assessment.¹⁰ While the Utah Commission requires environmental
238 externalities to be considered by PacifiCorp in its IRP process, it has never ruled
239 on 1) whether an environmental cost such as an avoided carbon tax should be
240 included in models valuing the benefits of resources like wind and distributed
241 solar for ratemaking purposes and 2) what level of carbon tax should be used in
242 these valuation models.¹¹

243 These are just two examples of NM valuation issues that would need to be
244 addressed in the separate NM proceeding recommended by the Division, Office,
245 UCE and other parties. My subsequent rebuttal of other witnesses will show that
246 there are other important issues that require careful consideration as well.

247

248 Response to UCE – Mr. Gilliam

249 Q. ON PAGE 16, LINES 268-273 OF MR. GILLIAM’S DIRECT TESTIMONY, HE
250 STATES THAT A NEIGHBORING CUSTOMER SHOULD BE INDIFFERENT AS
251 TO WHETHER THE SOURCE OF POWER IS FROM A RESIDENTIAL NM
252 CUSTOMER OR A UTILITY GENERATOR BECAUSE THAT NON-NM
253 CUSTOMER PAYS THE FULL RETAIL RATE TO RMP AND THE COMPANY
254 RECEIVES FULL COST RECOVERY. IS SOMETHING MISSING FROM THIS
255 SCENARIO?

256 A. What is missing from this scenario is at the very heart of this proceeding: the
257 potential cost shift from NM to non-NM residential customers because NM
258 customers are compensated the full retail rate for production delivered to the
259 grid. While the utility may receive full cost recovery, the vast majority of the
260 residential class may be subsidizing residential NM customers.

261

¹⁰Wright Direct, page 23, lines 459-461.

¹¹Ibid. Ms. Wright indicates that CPR relied on the middle case carbon cost scenario from the 2013 IRP.

262

263

264 Q. WHAT DOES PARAGRAPH 54-15-105.1 OF SB 208 STATE RELATING TO
265 NON-NM CUSTOMERS?

266 A. The paragraph indicates that the Commission should examine, “whether the
267 costs that the electrical corporation or **other customers** will incur from a NM
268 program will exceed the benefits.” (emphasis added) The statutory language is
269 clear that the impact on non-NM residential customers – not just the utility –
270 should be considered by the Commission in any NM cost-benefit analysis.

271

272 Q. ARE COSTS SHIFTED FROM NM CUSTOMERS TO OTHER RESIDENTIAL
273 CUSTOMERS?

274 A. Yes. Based its response to OCS DR 30.1(see Gimble Direct, page 25, lines 644-
275 653), the Company estimated the cost shift at approximately \$701,000 (solar PV
276 capacity factor = 20%). The residential NM program has been growing at a 30%
277 rate, which implies that the cost shift will continue to increase over time and non-
278 NM customers will end up paying higher energy rates.

279

280 Q. DOES THE OFFICE HAVE A CONCERN WITH THE BROAD CATEGORIES OF
281 COSTS AND BENEFITS ASSOCIATED WITH DISTRIBUTED GENERATION
282 THAT MR. GILLIAM DEPICTS IN FIGURE 1 ON PAGE 19 OF HIS DIRECT
283 TESTIMONY?

284 A. Yes. The Office concerns here are the same as those expressed relating to Mr.
285 Rossetti’s direct testimony above. Specifically, these are very broad categories
286 of costs and benefits that may 1) exceed the Commission’s statutory authority
287 and 2) be inconsistent with the evaluation of resource options in resource
288 planning (IRP) and ratemaking (GRC, RFP, Avoided Cost etc.) dockets. For
289 example, the “social” category includes “Economic Development (jobs and tax
290 revenues),” which is clearly not identified in the Commission’s IRP guidelines and

291 exceeds the regulatory authority under which the Commission operates.¹² In
292 addition, criteria air pollutants such as PM10, and water and land resources, all
293 listed under “Environmental,” represent externalities that are not presently
294 examined in an IRP framework. Thus, the Commission should not set rates
295 using the broad categories of costs and benefits presented by UCE. UCE may
296 need to pursue legislative changes prior to recommending that the full set of
297 categories be considered by the Commission in a ratemaking docket. .

298

299 Response to TASC – Mr. Miksis

300 Q. ON PAGE 9-10 OF HIS DIRECT TESTIMONY, MR. MIKSYS ADVISES THE
301 COMMISSION TO NOT “REINVENT THE WHEEL” AND RELY ON EXISTING
302 NM COST-BENEFIT STUDIES THAT HAVE BEEN UNDERTAKEN IN
303 MULTIPLE JURISDICTIONS. DOES THE OFFICE HAVE ANY COMMENTS ON
304 TASC’S RECOMMENDATION?

305 A. The Office cautions the Commission that any “external” studies must be applied
306 judiciously based on the Commission’s existing statutory authority and unique
307 circumstances of this case, RMP’s utility system and available information.
308 These external studies could include environmental and social costs/benefits that
309 either exceed the Commission’s current statutory authority or lack consistency of
310 measurement and application across resource planning and ratemaking
311 proceedings. If external costs and benefits are applied randomly in selected
312 ratemaking cases, this could lead to unintended outcomes and poor regulatory
313 policy. In addition, some studies could be associated with utility systems where
314 residential solar PV systems make a greater contribution to reducing system
315 peak than is the case based on the August 2010 study performed by RMP.

316

317 Q. DOES THE OFFICE AGREE WITH TASC’S VIEW THAT BEHIND THE METER
318 CONSUMPTION OF A RESIDENTIAL NM CUSTOMER IS EQUIVALENT TO

¹²See Utah Statute 54-3-1. This statute allows the Commission to assess economic impacts in terms of the general welfare of the state. However, it does not explicitly require the Commission to determine whether a proposal by the utility or party promotes economic development in terms of employment, tax revenues, expansion of business, etc.

319 LOAD REDUCTION FROM ENERGY EFFICIENCY (MIKSIS DIRECT, PAGES
320 15-16)?

321 A. No. The Office believes there are at least three fundamental differences
322 between residential customers participating in a utility NM program versus a
323 utility energy efficiency program. First, a NM customer that consumes and
324 exports energy uses the grid twice from a cost causation standpoint; first to meet
325 load requirements that vary over the day and second to export excess power
326 onto the grid. By contrast, a residential energy efficiency customer only
327 consumes energy (albeit at a lower level) supplied over the grid. Second, during
328 Mr. Miksis' "Retail Customer State," a residential NM customer provides no
329 output (i.e., benefit) to the grid whereas a residential NM customer that has
330 purchased and installed an energy-saving device (e.g., refrigerator with a high
331 energy efficiency rating) continues to provide a benefit via lower usage during the
332 peak period. Third, output from a residential customer is intermittent based on
333 time of day and amount of cloud cover. Consequently, the NM resource is not
334 dispatchable to meet varying load conditions on the system. By contrast, a
335 residential customer participating in the Utah Cool Keeper provides a DSM
336 resource that can be readily dispatched to meet peak demand during summer
337 months. Thus, there are a number of important distinctions to recognize between
338 residential customers participating in utility NM and energy efficiency/demand
339 management programs.

340
341 Q. WHILE TASC DOES NOT DISCUSS WHETHER THERE IS AN EQUIVALENCY
342 OR DIFFERENCE ON THE PRODUCTION SIDE BETWEEN A RESIDENTIAL
343 NM CUSTOMER AND A SMALL SOLAR QUALIFYING FACILITY (QF)
344 PROJECT, DOES THE OFFICE HAVE AN OPINION?

345 A. There is a significant difference in terms of compensation received by a
346 residential NM customer versus a small solar QF project selling output under
347 Schedule 37. The residential NM customer receives compensation valued at the
348 full retail residential rate for the power exported onto the grid. According to the

349 recent GRC settlement, the average residential rate is 10.93 cents/kWh.¹³ By
350 comparison, the small solar QF project only receives compensation at the
351 current, non-levelized avoided cost rate of approximately 4.6 cents/kWh.¹⁴ This
352 underscores why it is important for the Commission to ensure that there is an
353 overarching consistency in methods and data when evaluating costs/benefits
354 associated with the NM program and other ratemaking cases such as avoided
355 cost dockets.

356

357 Q. MR. MIKSIS PROVIDES A "BACK-OF-THE ENVELOPE CALCULATION" (HIS
358 WORDS) INDICATING THAT RMP'S RESIDENTIAL CUSTOMERS PAY 124%
359 OF THEIR SHARE OF RMP'S COSTS INCURRED TO SERVE ALL
360 CUSTOMERS (MIKSIS DIRECT, PAGE 21). IS THIS AN ACCURATE
361 REPRESENTATION OF THE COS STUDIES PREPARED BY THE COMPANY?

362 A. No. In the current GRC, the COS study filed by the Company (based on a 12-
363 CP, 75/25 demand-energy classification method) indicates that the residential
364 class has a return slightly below cost-of-service and that it is the commercial
365 classes that are paying rates that exceed cost-of-service. Improvements to the
366 COS Study recommended by the Office in the area of resource classification
367 changes increase the residential class return such that the class would be paying
368 rates that cover estimated cost-of-service. The settled spread in the current
369 GRC generally follows the COS relationships of rate schedules, as reflected in
370 the current COS study.

371 A COS Study is a complex undertaking involving many decisions on the
372 functionalization, classification and allocation of numerous revenue and cost
373 accounts. It includes detailed data relating to class load forecasts, load research,
374 and other information that is used to determine the performance of the various
375 rate schedules and special contract customers. Parties do not take the COS
376 Study lightly as evidenced by the Office, Division and industrial interveners'

¹³The Schedule 1 energy block rates for the summer months will be both higher (Tier 3) and lower (Tier 1) than the average residential rate of 10.93 cents/kWh.

¹⁴This number is the published Sch. 37 non-levelized, on-peak summer price for 2014. The published Sch. 37 levelized, on-peak summer price is approximately 6.1 cents/kWh.

377 typical practice of retaining COS experts to review the reasonableness of the
378 COS model, data inputs and assumptions used to estimate the class returns.
379 The implication Mr. Miksis tries to present with his simple calculations, that the
380 residential class is significantly over-allocated cost responsibility, does not
381 comport with a more careful, in-depth analysis of the Company's COS Study.
382

383 Q. MR. MIKSIS STATES THAT GOOD RATEMAKING SHOULD BALANCE
384 FAIRNESS WITH EFFICIENCY AND THAT A VERY HIGH BURDEN EXISTS
385 TO JUSTIFY DISPARATE TREATMENT OF CUSTOMERS WITHIN RATE
386 CLASSES. (MIKSIS DIRECT, PG. 27) DOES THE OFFICE GENERALLY
387 AGREE WITH THIS STATEMENT?

388 A. Yes, the Office generally agrees this position.¹⁵ Cost causation and fairness are
389 usually viewed by analysts as the two cornerstones for establishing fair and cost-
390 based utility rates. However, what TASC fails to recognize is that the application
391 of efficiency and fairness principles in setting just and reasonable rates for
392 customers is a two-way street. If NM residential customers do not pay for
393 distribution-related costs, then these costs will be shifted to non-NM residential
394 customers. To allow residential NM customers to avoid paying distribution-
395 related costs would constitute differential treatment for that small sub-set of NM
396 customers at the expense of the majority of residential customers that may not
397 be able to afford the up-front expense of installing a solar PV system, live in
398 homes that are not properly situated for a solar PV system or are not interested
399 in participating in a utility NM program.

400 .

401 Response to Sierra Club – Dr. Mulvaney

402 Q. IN ITS ASSERTIONS THAT NM INSTALLATIONS PROVIDE VALUE TO THE
403 SYSTEM, THE SIERRA CLUB CITES AS EXAMPLES CALIFORNIA AND
404 MINNESOTA (MULVANEY DIRECT, P. 7) WHAT IS THE OFFICE'S
405 RESPONSE?

¹⁵The Office would note that additional key principles such as gradualism, rate stability and energy conservation are sometimes applied in developing just and reasonable rates for customers.

406 A. California and Minnesota have a very different policy history on NM compared to
407 Utah. For example, the “value of solar” calculation used in Minnesota is the
408 result of specific legislation outlining the types of costs and benefits to be
409 included in such a calculation. As the Office previously indicated with respect to
410 UCE, if the Sierra Club wants to propose that its expanded set of costs and
411 benefit categories be included in a ratemaking context, it may need to seek
412 legislation.

413

414 Q. THE SIERRA CLUB CALCULATES AN NM AVOIDED COST BY INCLUDING
415 FOUR CATEGORIES OF COSTS. WHAT IS THE OFFICE’S RESPONSE?

416 A. The Sierra Club’s proposed NM avoided cost method is seriously flawed and
417 should be disregarded by the Commission. It suffers from many of the problems
418 I have previously described in my rebuttal testimony and introduces new ones as
419 well. The problems with the Sierra Club’s avoided cost calculation can be
420 summarized as follows:

- 421 • It appears that some of the avoided cost calculations are based on generic
422 research studies. The Office would advise the Commission to be very
423 circumspect in applying results from studies based upon data related to
424 different utility systems. The specific load patterns and operational
425 characteristics of RMP’s system are critical to a proper evaluation of any set
426 of NM costs and benefits.
- 427 • It appears that some benefit categories are based on the theoretical
428 possibility of benefits, rather than the calculation of actual benefits. For
429 example, Dr. Mulvaney describes ancillary service benefits as potential
430 benefits that NM installations could provide. (Mulvaney Direct, p. 15) He does
431 not attempt to demonstrate that, in fact, NM installations in Utah do provide
432 such benefits.
- 433 • The calculation includes cost and benefit categories that are inconsistent with
434 those used in other regulatory processes. This presents the potential
435 problems of perverse incentives and unintended consequences that I have
436 previously described. Further, the Sierra Club may need to pursue legislation

437 in order for the Commission to consider certain categories of costs and
438 benefits that it has presented.

439

440 Q. IN ADDITION TO THE PROBLEMS THE OFFICE IDENTIFIED ABOVE WITH
441 RESPECT TO THE SIERRA CLUB'S PROPOSED AVOIDED COST METHOD,
442 IS ITS CALCULATED NM AVOIDED COST OF 6.09 CENTS/KWH ANYWHERE
443 NEAR AVOIDED COSTS RECENTLY CALCULATED BY THE COMPANY?

444 A. No. The Company recently calculated avoided costs for two solar QF Power
445 Purchase Agreements (PPAs) using its GRID model and the avoided cost
446 methodology approved by the Utah Commission. For these two recent solar
447 PPAs filed under Schedule 38, the Company's calculated an avoided cost
448 ranging from 3.2 cents/kWh to 3.3 cents/kWh for the years 2016 and 2017. The
449 Sierra Club's avoided cost calculation of 6.09 cents/kWh is almost double the
450 Company's avoided cost estimates for these two solar QF projects.

451

452 Q. WHAT ADDITIONAL PROBLEMS ARE ASSOCIATED WITH THE AVOIDED
453 COST METHOD PROPOSED BY THE SIERRA CLUB?

454 A. The Sierra Club's avoided cost analysis assumes that the Company purchases
455 all of the output of the 15.6 MW of generation from residential NM customers and
456 resells it to other customers at a value of \$56.27 per month. However, the actual
457 situation is that residential NM customers use the majority of NM production to
458 meet their own energy needs (either at the time of consumption or through NM
459 credits that offset future charges on their utility bills). Since NM customers use
460 the majority of output from their PV systems to either meet their own energy
461 needs or offset future bills, paying them \$56.27 per month to provide little net
462 power to the grid appears to be an additional flaw in the avoided cost method
463 used by the Sierra Club.

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465 Q. THE SIERRA CLUB DESCRIBES AT LENGTH THE IMPACT OF THE
466 PROPOSED NET METERING FACILITIES CHARGE ON THE SOLAR
467 INCENTIVE AND SOLAR PAYBACK PERIODS. WHAT IS YOUR RESPONSE?

468 A. The Sierra Club arguments are irrelevant to this proceeding. The solar incentive
469 program was established based upon the standalone cost/benefit analysis from
470 the perspective of Utah customers. It was not established to guarantee any
471 particular price or payback period for current or future customers who choose to
472 install PV resources. In fact, the Office took a very specific position in the solar
473 incentive docket to ensure that communications to potential residential solar
474 incentive recipients clearly indicated that rates and charges may vary in the
475 future.

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477 Q. THE SIERRA CLUB ASKS WHETHER THE “PENALTY” FOR SOLAR
478 INSTALLATIONS IS CONSISTENT WITH OTHER COMMISSION POLICIES.
479 (MULVANEY DIRECT, P. 46) WHAT IS THE OFFICE’S RESPONSE?

480 A. First, the Commission frequently indicates that it establishes just and reasonable
481 rates consistent with law and policy set by the legislature. Second, as the Office
482 explained above, setting just and reasonable rates is a process separate and
483 apart from the establishme

484 nt of the solar incentive program. Third, the Office views the Sierra Club’s
485 characterization of the proposed net metering facilities charge as a “penalty” as
486 inappropriate. The Sierra Club is free to provide evidence in an effort to
487 persuade the Commission to reject, modify or support the Company’s proposed
488 NM facilities charge, but it should not misconstrue the charge as penalty. Finally,
489 the Office’s position is that a net metering facilities charge represents a rate
490 change that *is consistent* with Utah policy and Commission orders. The
491 Commission has long supported setting rates consistent with cost causation and
492 fairness principles and the legislature just affirmed its support for a charge so
493 long as it is demonstrated that costs to either the Company or other customers is
494 greater than the benefits from NM customers. While the Office supports a more
495 robust and focused process to examine these issues, we also maintain that the
496 evidence in this docket supports a NM facilities charge to recover an additional
497 portion of the costs of the distribution system from NM customers.

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501 Q. PLEASE SUMMARIZE THE OFFICE'S RESIDENTIAL NM
502 RECOMMENDATION?

503 A. In direct testimony, the Office calculated and proposed a residential NM facilities
504 charge of \$1.60/kW. The settlement in the current GRC reduces the Office's
505 calculated NM charge to \$1.54/kW. However, the Office agrees with the
506 Division, UCE and other parties that the Commission should open a separate
507 docket to consider NM costs and benefits for all customer classes so that it can
508 make an informed decision as to whether a residential NM facilities charge at any
509 level is reasonable and in the public interest. The Office believes it is important
510 for the Commission to proceed in a separate docket so that it can fully
511 understand the differences in valuation models, data inputs and assumptions
512 proposed by interested parties. Ultimately, the Commission will want to use a
513 valuation method that best fits the legal, policy and factual circumstances unique
514 to Utah and relies on data inputs and assumptions that are generally consistent
515 across resource planning and ratemaking cases.

516

517 Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

518 A. Yes.

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