

Adam S. Long (14701)  
(along@SHUtah.law)  
SMITH HARTVIGSEN, PLLC  
175 South Main Street, Suite 300  
Salt Lake City, Utah 84111  
Telephone: (801) 413-1600  
Facsimile: (801) 413-1620  
*Counsel for the Renewable Energy Coalition*

---

**BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH**

---

In the Matter of Rocky Mountain Power's Proposed Tariff Revisions to Electric Service Schedule No. 37, Avoided Cost Purchases from Qualifying Facilities	Docket No. 17-035-T07  <b>PREFILED DIRECT TESTIMONY OF JOHN LOWE</b>
---	--

---

The Renewable Energy Coalition, (the “**Coalition**”) hereby submits the attached Prefiled Direct Testimony of John Lowe on behalf of the Coalition.

Respectfully submitted this 20<sup>th</sup> day of July, 2017.

**SMITH HARTVIGSEN, PLLC**

/s/ Adam S. Long

Adam S. Long

*Attorney for the Renewable Energy Coalition*

**CERTIFICATE OF SERVICE**

I hereby certify that a true and correct copy of the foregoing was served on this 20th day of July, 2017 upon the following as indicated below:

Via and email to:

UTAH PUBLIC SERVICE COMMISSION  
psc@utah.gov

Data Request Response Center (datarequest@pacificorp.com)  
Robert C. Lively (bob.lively@pacificorp.com)  
Yvonne Hogle (yvonne.hogle@pacificorp.com)  
Daniel Solander (daniel.solander@pacificorp.com)  
PacifiCorp

Patricia Schmid (pschmid@agutah.gov)  
Justin Jetter (jjetter@agutah.gov)  
Robert Moore (rmoore@agutah.gov)  
Steven Snarr (stevensnarr@agutah.gov)  
Assistant Utah Attorneys General

Erika Tedder (etedder@utah.gov)  
Division of Public Utilities

/s/ Adam S. Long

**PREFILED DIRECT TESTIMONY**  
**OF**  
**JOHN LOWE**  
**FOR**  
**RENEWABLE ENERGY COALITION**

**July 20, 2017**

**Docket No. 17-035-T07**

1 **I. INTRODUCTION**

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

3 **A.** My name is John R. Lowe. I am the director of the Renewable Energy Coalition  
4 (the “**Coalition**”). My business address is P.O. Box 25576 Portland, Oregon  
5 97298.

6 **Q. Please describe your background and experience.**

7 **A.** In 1975, I graduated from Oregon State with a B.S. I was employed by  
8 PacifiCorp for thirty-one years, most of which was spent implementing the Public  
9 Utility Regulatory Policies Act (“**PURPA**”) regulations throughout the utility’s  
10 multi-state service territory. My responsibilities included all contractual matters  
11 and supervision of others related to both power purchases and interconnections.  
12 Since 2009, I have been directing and managing the activities of the Coalition as  
13 well as providing consulting services to individual members related to both power  
14 purchases and interconnections.

15 **Q. On behalf of who are you appearing in this proceeding?**

16 **A.** I am testifying on behalf of the Coalition.

17 **Q. Please describe the Coalition and its members.**

18 **A.** The Coalition was established in 2009, and is comprised of nearly forty members  
19 who own and operate—or are in the process of developing—small renewable  
20 energy generation qualifying facilities (“**QFs**”) in Oregon, Idaho, Montana,  
21 Washington, Utah, and Wyoming. Several types of entities are members of the  
22 Coalition, including irrigation districts, waste management districts, water  
23 districts, electric cooperatives, corporations, and individuals. Most are small

24 hydroelectric projects, but the membership includes biomass, geothermal, solid  
25 waste, and solar projects.

26 **Q. Please summarize your testimony.**

27 **A.** The Coalition recommends that the Commission allow renewable QFs the option  
28 to sell renewable power at fair, just, and reasonable avoided cost prices or rates  
29 based on the costs of Rocky Mountain Power's<sup>1</sup> next planned renewable resource  
30 acquisitions. Renewable QFs help defer Rocky Mountain Power's energy,  
31 capacity and renewable resource needs, and these renewable QFs should be fully  
32 compensated for the value of the electricity that they cause the utility to avoid.

33 Specifically, I recommend that the Commission continue to utilize the  
34 current Schedule 37 proxy methodology, but revise it to allow all QFs to choose  
35 to be paid a renewable or a non-renewable avoided cost rate, as long as Rocky  
36 Mountain Power is planning on acquiring new renewable resources. If the  
37 Commission moves to a Schedule 38 methodology for calculating avoided cost  
38 rates, Rocky Mountain Power should also offer a renewable rate to all QFs based  
39 on the costs of its next planned renewable resources. Rocky Mountain Power  
40 agrees that there should be a renewable rate available for at least some renewable  
41 QFs, but has proposed a variety of restrictions that diminish its usefulness and  
42 discriminates against Utah QFs.

43 **Q. Please summarize Rocky Mountain Power's requests in this case.**

44 **A.** Rocky Mountain Power has proposed a significant and unprecedented change in  
45 its Schedule 37 pricing methodology as well as other changes to the avoided cost

---

<sup>1</sup> For simplicity, Rocky Mountain Power, PacifiCorp, and Pacific Power are collectively referred to as Rocky Mountain Power or the Company.

46 rates inputs and assumptions. Published rates for Schedule 37 are available to  
47 cogeneration facilities up to 1 megawatt (“MW”) and other small QFs up to 3  
48 MWs.

49 First, Rocky Mountain Power proposes to replace the existing proxy  
50 methodology for setting avoided cost rates for Schedule 37 with the methodology  
51 used to set Schedule 38 prices. This change by itself results in huge avoided cost  
52 rate decreases for baseload QFs (about a 15% reduction) and solar generation QFs  
53 (about a 30% reduction).

54 Second, Rocky Mountain Power proposes to allow renewable resources of  
55 the same kind to replace the next deferrable “like” renewable resource identified  
56 in its IRP— after accounting for the queue of potential QFs—preventing Utah  
57 QFs from being able to defer a single watt of the Company’s over 1,100 MW of  
58 planned Wyoming wind.

59 Third, Rocky Mountain Power proposes to update the inputs for market  
60 prices of electricity and gas, integration costs for wind and solar QFs, and the  
61 capacity contribution for intermittent QFs.

62 **Q. What are your specific responses to Rocky Mountain Power’s filing?**

63 **A.** Rocky Mountain Power has not demonstrated that moving away from a proxy  
64 methodology similar to the current Schedule 37 would more accurately calculate  
65 avoided cost rates for small QFs. Rocky Mountain Power has demonstrated that a  
66 separate renewable avoided cost rate should be used for renewable QFs. This  
67 renewable rate, however, should be available to all Utah QFs, and should not be  
68 limited to only those types of generation that Rocky Mountain Power is planning

69 to acquire in its IRP. Finally, while the Coalition has significant concerns with  
70 Rocky Mountain Power's reliance upon its own in-house official forward price  
71 curve, we are not raising any objections to these elements at this time. The  
72 Coalition reserves the right to review the testimony of other witnesses on these  
73 issues.

74 The Coalition's specific proposals are:

75 • The Commission should continue to use Rocky Mountain Power's proxy  
76 methodology for setting small Schedule 37 QF rates, rather than the Partial  
77 Displacement Differential Revenue Requirement ("PDDRR") methodology used  
78 for Schedule 38 QF rates. Rocky Mountain Power's avoided cost rates for  
79 Schedule 37 are already too low, and fail to fully compensate QFs for their full  
80 capacity and energy value. Rocky Mountain Power's proposal will further  
81 exacerbate this inequity and result in less transparency in the determination of  
82 contracted prices.

83 • Regardless of whether the current proxy approach or a PDDRR  
84 methodology is used, a renewable QF should have the option of being paid based  
85 on a renewable avoided cost rate or a non-renewable avoided cost rate. Rocky  
86 Mountain Power agrees in principle that at least some renewable QFs should be  
87 able to choose between a renewable and non-renewable avoided cost rate.

88 • A renewable rate should be offered to all renewable QFs instead of  
89 limiting renewable rates to only those QF resource types in which Rocky  
90 Mountain Power's IRP identifies a need for a renewable resource of exactly the  
91 same type. If Rocky Mountain Power has a renewable resource need for wind in

92 2020, then landfill waste, hydroelectric or solar generation can defer that resource  
93 need and should be appropriately compensated for the value of their renewable  
94 power. This is different from Rocky Mountain Power’s proposal in this case,  
95 which limits renewable rates only to “like” resources.

96 • If a renewable QF chooses to be paid a renewable avoided cost rate, then  
97 the QF should keep their environmental attributes, including renewable energy  
98 certificates (“RECs”) during the early years in which they are deferring market  
99 purchases. A QF being paid a renewable rate, however, should transfer the RECs  
100 during the later years in which they are deferring a renewable resource  
101 acquisition. When the renewable QF is paid a non-renewable rate based on the  
102 costs of market purchases and a gas plant, then they should keep the RECs in all  
103 years. This is consistent with Rocky Mountain Power’s proposal.

104 • Utah renewable QFs should be paid avoided cost rates based on the costs  
105 of deferring Wyoming wind, plus associated transmission. PacifiCorp’s next  
106 planned resource is Wyoming wind, which requires the construction of hundreds  
107 of millions of dollars of new transmission to wheel the power to load. As this is  
108 the next avoidable resource, QFs regardless of their location should be paid rates  
109 based on these costs. This is different from Rocky Mountain Power’s proposal,  
110 which seeks to prevent Utah QFs from being paid for the full value of their  
111 renewable power.

112 **Q. Is the Coalition presenting testimony from any other witnesses in this**  
113 **proceeding?**



114 A. Yes, Neal Townsend is presenting testimony on Rocky Mountain Power's  
115 proposal to limit renewable avoided cost rates to only "like" resources of the same  
116 type of technology as Rocky Mountain Power is planning to acquire in its IRP.  
117 Revising the current Schedule 37 proxy methodology to allow for a renewable  
118 rate is easy because it simply replaces the thermal generation unit during the  
119 resource deficiency period with the next deferrable renewable resource (which at  
120 this time a 2020 wind generation unit plus the transmission to wheel the  
121 electricity to load). This approach could easily calculate resource specific rates  
122 for baseload, wind and solar using the capacity value and integration costs from  
123 Rocky Mountain Power's IRP.

124 Revising the Schedule 38 PDDRR methodology to develop a renewable  
125 rate for all renewable resources can also be done simply, and Mr. Townsend's  
126 testimony explains how this would work. Mr. Townsend also addresses why it is  
127 unreasonable to limit renewable rates to only "like" resources.

128

129 **II. AVOIDED COST RATES SHOULD BE JUST AND REASONABLE FOR**  
130 **RATEPAYERS AND QFs**

131 **Q. Do you believe that a major methodology change should be implemented that**  
132 **significantly lowers avoided cost rates?**

133 A. No. Rocky Mountain Power's proposal makes me wonder what problem they are  
134 trying to solve, or what problems they be trying to create to slow down or stop  
135 renewable projects not owned by Rocky Mountain Power. Schedule 37 rates are

136 already at historic lows, and the Coalition fails to see any reason to change the  
137 methodology to make them even lower.

138 Schedule 37 rates are at historic lows for a number of reasons, including:  
139 (1) Rocky Mountain Power has eliminated capacity payments during the resource  
140 sufficiency years so that QFs are only paid market rates; and (2) Rocky Mountain  
141 Power has proposed sufficiency periods of more than a decade for certain  
142 resource technologies, even though the Company is planning on significant  
143 resource acquisitions in the next few years (\$3.5 billion in investments in new  
144 Wyoming wind generation, repowered wind, and new Wyoming transmission to  
145 wheel the new Wyoming wind). In short, Rocky Mountain Power is in a major  
146 new build cycle, but is asking the Commission to further lower avoided cost rates.  
147 This may result in a massive amount of new generation serving customers, but  
148 with either all or nearly all of it being owned, operated by Rocky Mountain  
149 Power. This is not in the best interests of ratepayers because diversity of  
150 ownership offers unique benefits to customers, and competition has resulted in  
151 lower costs.

152 **Q. You mention that Rocky Mountain Power no longer pays QFs for capacity**  
153 **during the resource sufficiency years, which extend for more than a decade.**  
154 **Is this the case in all of Rocky Mountain Power's states?**

155 **A.** No. While each state has its own unique mix of PURPA policies that must be  
156 evaluated in their totality to determine their reasonableness, it could be argued  
157 that Utah's current Schedule 37 pricing approach is worse than the approaches in  
158 Washington, Idaho, Oregon and California. Rocky Mountain Power previously

159 paid QFs a capacity payment during all years in Utah, including a short-term  
160 capacity payment based on the costs of a peaking unit in the resource sufficiency  
161 years and a long-term capacity payment based on the costs of combined cycle  
162 combustion turbine in the resource deficiency years, but Utah changed that policy.

163 Washington recognizes that when utilities have a short term capacity need,  
164 then QFs should be paid a capacity payment in addition to an energy payment.  
165 The Washington Utilities and Transportation Commission (the “**Washington**  
166 **Commission**”) has recognized that Rocky Mountain Power’s (dba Pacific Power)  
167 front office transactions failed to adequately reflect the capacity value of QFs, and  
168 directed the utility to include at least a minimal capacity payment based on the  
169 costs of one fourth of a simple cycle combustion turbine gas plant.<sup>2</sup> The  
170 Washington Commission is currently investigating its PURPA policies, including  
171 the appropriate value of capacity.<sup>3</sup>

172 Idaho has removed capacity payments during the sufficiency period for  
173 new QFs, but pays a full capacity payment during all years for existing QFs when  
174 replacement power purchase agreements are entered into. As explained by the  
175 Idaho Public Utilities Commission (the “**Idaho Commission**”):

176 we find merit in the argument made by the Canal Companies that contract  
177 extensions and/or renewals present an exception to the capacity deficit rule  
178 that we adopt today. It is logical that, if a QF project is being paid for  
179 capacity at the end of the contract term and the parties are seeking  
180 renewal/extension of the contract, the renewal/extension would include

---

<sup>2</sup> WUTC v. Pacific Power & Light Co., Washington Commission Docket No. UE-144160, Order 04 at PP. 21, 31 (Nov. 12, 2015);

<sup>3</sup> Re Public Utilities Regulatory Policies Act, Obligations of the Utility to Qualifying Facilities, WAC 480-107-105, Washington Commission Docket No. U-161024, Notice of Workshop and Opportunity to File Written Comments (Mar. 16, 2017).

181 immediate payment of capacity. An existing QF's capacity would have  
182 already been included in the utility's load resource balance and could not  
183 be considered surplus power. Therefore, we find it reasonable to allow  
184 QFs entering into contract extensions or renewals to be paid capacity for  
185 the full term of the extension or renewal.<sup>4</sup>

186  
187

The Idaho Commission recently reaffirmed this policy.<sup>5</sup>

188 Oregon currently uses a similar approach to Utah, but recently recognized  
189 that existing QFs help defer capacity acquisitions, because without their continued  
190 operation, Rocky Mountain Power would need to acquire new capacity  
191 resources.<sup>6</sup> While a methodology to calculate this capacity value has not been  
192 approved, Oregon has recognized the principle that capacity payments are  
193 warranted in all years.

194 **Q. Why are you raising this issue if the Coalition is not proposing a change to**  
195 **fully compensate QFs for the capacity value they provided during all years?**

196 **A.** Simply to illustrate that there is ample justification to increase, rather than reduce,  
197 avoided cost rates. Rocky Mountain Power's proposals may be more "precise"  
198 and based on complex computer models, but that does not mean that they are  
199 more "accurate." In their totality, the Utah Schedule 37 pricing currently  
200 undercompensates QFs and fails to pay any capacity during the extremely long

---

<sup>4</sup> Re the Commission's Review of PURPA QF Contract Provisions, Idaho Commission Case No. GNR-E-11-03, Order No. 32697 at 21-22 (Dec. 18, 2012) clarified in Order No. 32871 (Aug. 9, 2013).

<sup>5</sup> Re Idaho Power Company's Petition to Modify Terms and Conditions of PURPA Purchase Agreements, Idaho Commission Case Nos. IPC-E-15-01, AVU-E-15-01, PAC-E-15-03, Order No. 33357 at 25-26 (Aug. 20, 2015).

<sup>6</sup> Re Investigation Into QF Contracting and Pricing, Oregon Commission Docket No. UM 1610, Order No. 16-174 at 2 (May 13, 2016) ("We agree with Staff and the Joint QFs that a certain amount of capacity deferral may not be valued when utilities assume in their IRPs that existing QFs nearing contract expiration will automatically renew. We direct each utility to work with parties to address this issue in its next IRP.").

201 resource sufficiency period, which Rocky Mountain Power proposes to  
202 exacerbate.

203 **III. RENEWABLE RESOURCE RATE**

204

205 **Q. What are avoided cost rates?**

206 **A.** PURPA requires electric companies pay the “incremental cost” for energy  
207 produced by QFs. FERC regulations define the incremental costs as the cost to an  
208 electric utility, which but for the purchase of power from the QF, such utility  
209 would generate or purchase from another source. FERC relies upon the states to  
210 implement PURPA, and to determine avoided cost rates.

211 **Q. Should the Commission distinguish between renewable and non-renewable**  
212 **avoided cost rates?**

213 **A.** Yes. The separate renewable avoided cost rate reflects the fact that renewable  
214 QFs help utilities meet more than just their load requirements, and also help  
215 utilities comply with their state renewable portfolio standard (“RPS”)  
216 requirement. Because some states require utilities to generate a certain amount of  
217 qualifying renewable power, it is reasonable to differentiate regardless of size  
218 between the cost of the utility’s next planned renewable and non-renewable  
219 resources. Irrespective of RPS obligations, Rocky Mountain Power also has a  
220 need for a diverse resource portfolio, including both thermal and renewable  
221 resources. When a QF can defer or help Rocky Mountain Power avoid renewable  
222 resources that the Company is planning on acquiring for economic or RPS  
223 purposes, it is reasonable to pay the QF based on the costs of those renewable  
224 resource acquisitions. Also, purchasing or developing more renewable resources  
225 should aid in making a long-term transition from problematic thermal resources.

226                   When renewable QFs are willing to sell their output and cede their RECs  
227 to the utility, those QFs allow the utility to avoid building or buying renewable  
228 generation to meet their energy and capacity needs as well as their RPS  
229 requirement. Currently, a renewable avoided cost rate would be higher than the  
230 non-renewable avoided cost rate because renewable generation has historically  
231 been more expensive than the non-renewable generation and the prices include an  
232 imputed value for RECs whose ownership is transferred to the purchasing utility  
233 when applying such renewable rates. RECs should be retained by the QF during  
234 the years prior to Rocky Mountain Power's next planned renewable resource  
235 acquisition date because the avoided cost rates during those years are based on the  
236 value of market purchases, which do not include RECs.

237                   A QF should also keep the choice to sell power under a non-renewable  
238 rate. When the renewable QF wishes to keep its RECs and only sell its net output  
239 to Rocky Mountain Power, then the QF should be paid a non-renewable rate  
240 based on the costs of the resource that it helps defer, including market purchases  
241 and thermal generation.

242 **Q.    Are there are other reasons to allow the QF the option to choose between a**  
243 **renewable and non-renewable rate?**

244 **A.**    Yes. This option means allowing renewable QFs to choose which avoided cost  
245 stream might better reflect the value of its resource. This is important to account  
246 for different types of renewable generation and QF business models, including the  
247 fact that some QFs may have already sold their RECs, or need to keep them to  
248 obtain financing. Having two different choices is more important as the utilities'  
249 resource plans change. For example, when the utilities are planning on acquiring

250 non-renewable resources, but not renewable resources, then the QF should be able  
251 to keep its RECs and sell only its power to help the utility avoid its non-renewable  
252 resource need. The opposite is also true.

253 Without this optionality, then certain QFs may be unable to defer the  
254 utility's actual next resource when the utilities' renewable and non-renewable  
255 resource acquisition dates do not perfectly match. Allowing QFs to choose  
256 between the separate avoided cost rate streams is consistent with FERC policy  
257 allowing states to determine avoided costs associated with utility purchases of  
258 energy from generators with certain characteristics.

259 **Q. Can a renewable rate work with Rocky Mountain Power's current Schedule**  
260 **37 methodology?**

261 **A.** Yes. Oregon uses a non-PDRR methodology similar to Utah's Schedule 37  
262 methodology, and has adopted renewable rates. Exhibit A to my testimony  
263 includes a copy of Oregon's equivalent to Utah's Schedule 37. At the time the  
264 rates were set, the Oregon Commission determined that PacifiCorp's next planned  
265 renewable resource acquisition was 2028. During the years prior to 2028, a  
266 renewable QF selecting the renewable avoided cost rate is paid market prices and  
267 keeps their RECs. Starting in 2028, the renewable QF selecting the renewable  
268 avoided cost rate is paid a rate based on the next renewable resource acquisition in  
269 the IRP, which is currently a wind resource.

270 In Oregon, all renewable QFs can be paid a renewable rate, with each  
271 category of renewable resource (baseload, wind and solar) having a resource  
272 specific rate calculated with adjustments for integration costs and the generic

273 resource capacity value. For example, baseload generation has no integration  
274 costs and a higher capacity factor, so their rates are correspondingly higher to  
275 reflect this higher quality of power. Similarly, solar generation also has a higher  
276 capacity value, which is reflected in rates that are higher than wind generation  
277 (but not as high as baseload generation). The specific Oregon rates should only  
278 be viewed for illustrative purposes, because the underlying inputs and  
279 assumptions will be significantly different over time.

280 **Q. Can a renewable rate work with Rocky Mountain Power's proposed**  
281 **Schedule 38 methodology?**

282 **A.** Yes. I am not an expert with PacifiCorp's PDDRR methodology, but Coalition  
283 witness Neal Townsend explains how this would be implemented. While it might  
284 be workable, it is un-necessary and overly complicates the determination of  
285 contract prices and the contracting process for small projects. What is critically  
286 important is that a renewable resource of any type be allowed to defer Rocky  
287 Mountain Power's next renewable resource acquisition, just as how today any  
288 renewable resource type is allowed to defer Rocky Mountain Power's next  
289 thermal resource acquisition. Under Rocky Mountain Power's proposal, a  
290 biomass, waste generation or hydro QF could never be paid a renewable rate  
291 because the Company is not planning on building and owning this type of  
292 generation in the near future. Similarly, while the IRP now includes solar and  
293 geothermal, these resources are not planned until 2031 (solar) and 2029  
294 (geothermal). Purchases from these various renewable resources can help Rocky  
295 Mountain Power avoid its next planned wind generation.



296 **Q. Is it appropriate for Utah QFs to be paid based on Rocky Mountain Power's**  
297 **next deferrable renewable resource, which happens to be Wyoming wind?**

298 **A.** Utah resources should be paid rates based on Rocky Mountain Power's next  
299 planned resource acquisition, including Wyoming wind. Avoided cost prices for  
300 PacifiCorp have never been based upon a state specific resource, but the next  
301 avoidable resource in their system. Rocky Mountain Power's IRP has identified  
302 1,100 MW of Wyoming wind resources that it will acquire by the end of 2020.  
303 This should be the date upon which Rocky Mountain Power is considered  
304 renewable "deficient" and Utah QFs paid capacity costs based on Wyoming wind  
305 generation, if they elect to sell their RECs.

306 **Q. Why does Rocky Mountain Power claim that no Utah resources, including**  
307 **wind, should be paid for deferring this renewable resource?**

308 **A.** Because the Company states that these capacity additions cannot be delayed or  
309 scaled down as result of a QF resource addition. Their position on the actual  
310 avoidable nature of these resources is untested and unproven.

311 **Q. What is your response?**

312 **A.** This is not how PURPA works. The question is not whether a single Utah QF can  
313 defer any particular resource, but what investments QFs in the aggregate will  
314 allow the utility to avoid. Even though small amounts of capacity provided from  
315 QFs taken individually might not enable a purchasing utility to defer or avoid  
316 scheduled capacity additions, the aggregate capability of such purchases may  
317 permit the deferral or avoidance of a capacity addition. The logical result of  
318 PacifiCorp's argument is that Utah QFs would never be paid any capacity because  
319 no single Utah QF can displace a Wyoming power plant.

320           A number of examples illustrate this point. For example, small QF  
321 contracts and front office transactions are included in Rocky Mountain Power's  
322 load resource balance so as to avoid planning to construct or acquire duplicative  
323 facilities. Another example is how Rocky Mountain Power's current and  
324 proposed Schedule 37 methodologies work. A QF is paid for deferring its  
325 proportionate share of the costs of a large thermal gas plant in the deficiency  
326 period. There is no way a single 3 MW QF by itself will ever delay or scale down  
327 a 500 MW combined cycle combustion turbine plant. However, we assume that  
328 500 MWs of small QFs could defer the construction of a new gas plant, and pay  
329 the QFs based on the avoided costs of this gas plant. Finally, assume that 1,100  
330 MW of Utah QFs could be built at the same or lower cost as Rocky Mountain  
331 Power's Wyoming wind and transmission resources. In such a case, it would be  
332 imprudent for Rocky Mountain Power to build these 1,100 MW of wind  
333 generation and the associated transmission assets instead of purchasing 1,100  
334 MW from Utah QF projects that are ultimately more cost effective.

335 **Q. Should Utah QFs be paid for Rocky Mountain Power's avoided transmission**  
336 **resources?**

337 **A.** Yes. My understanding is that the full avoided costs should include the costs of  
338 avoided transmission in calculation of the avoided cost rates, if the QF will allow  
339 the utility to avoid those transmission costs especially in the case in which the  
340 new transmission is necessary component of the planned resource. Therefore, if  
341 the proxy resource used to calculate a utility's avoided costs is an off-system  
342 resource, then the costs of third-party transmission are avoided, and therefore  
343 should be included in the calculation of avoided cost prices. Generally with

344 PacifiCorp, its generation has been on-system where there are no avoided  
345 transmission costs. We have a unique situation now in which PacifiCorp's proxy  
346 resource, Wyoming wind, is on system, but will require transmission upgrades to  
347 deliver the output to load. These on-system Wyoming wind resources will  
348 impose transmission costs on Rocky Mountain Power and its customers, because  
349 they clearly require Rocky Mountain Power to incur costs for upgrades to network  
350 transmission on its own system.

351 Excluding transmission costs required to bring generation output to load  
352 undermines the very concept of avoided cost. These new Wyoming wind  
353 resources cannot be wheeled to load without new transmission. Thus, this new  
354 transmission infrastructure is required to bring resources to load and would be  
355 avoided if the proxy resource were avoided. As Rocky Mountain Power's IRP  
356 explains, this kind of infrastructure is often extremely expensive, faces  
357 considerable public opposition in many areas, and is time consuming to permit  
358 and construct. It is only reasonable that, to the extent QFs help Rocky Mountain  
359 Power avoid, reduce or delay the costs associated with transmission to bring any  
360 proxy resource to load, the QF receive compensation for the value of that savings.

361 **IV. CONCLUSION**

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

363 **A.** Yes