

November 4, 2014

VIA ELECTRONIC FILING AND OVERNIGHT DELIVERY

Public Utility Commission of Oregon 3930 Fairview Industrial Drive SE Salem, Oregon 97302-1166

Attn: Filing Center

RE: UM 1610 Phase II—Investigation into Qualifying Facility Contracting and Pricing Opening Testimony of PacifiCorp regarding Solar Capacity Contribution

PacifiCorp d/b/a Pacific Power (Company) encloses for filing in this docket its opening testimony of Gregory N. Duvall regarding the solar capacity contribution.

Inquiries may be directed to Natasha Siores, Director, Regulatory Affairs & Revenue Requirement, at (503) 813-6583.

Sincerely,

R Bryger Dully INCS

R. Bryce Dalley Vice President, Regulation

Enclosure

cc: Service List—UM 1610

CERTIFICATE OF SERVICE

I certify that I served a true and correct copy of PacifiCorp's Testimony on the parties listed below via electronic mail and/or US mail in compliance with OAR 860-001-0180.

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Docket No. UM-1610 Exhibit PAC/600 Witness: Gregory N. Duvall

BEFORE THE PUBLIC UTILITY COMMISSION OF THE STATE OF OREGON

PACIFICORP

Opening Testimony of Gregory N. Duvall

November 2014

1	Q.	Please state your name, business address, and present position with PacifiCorp
2		d/b/a Pacific Power (PacifiCorp or the Company).
3	А.	My name is Gregory N. Duvall. My business address is 825 NE Multnomah Street,
4		Suite 600, Portland, Oregon 97232. My present position is Director, Net Power
5		Costs.
6	Q.	Briefly describe your education and professional experience.
7	А.	I received a degree in Mathematics from University of Washington in 1976 and a
8		Masters of Business Administration from University of Portland in 1979. I was first
9		employed by PacifiCorp in 1976 and have held various positions in resource and
10		transmission planning, regulation, resource acquisitions and trading. From 1997
11		through 2000, I lived in Australia where I managed the Energy Trading Department
12		for Powercor, a PacifiCorp subsidiary at that time. After returning to Portland, I was
13		involved in direct access issues in Oregon and was responsible for directing the
14		analytical effort for the Multi-State Process (MSP). I currently direct the work of the
15		load forecasting group, the net power cost group, and the renewable compliance area.
16	Q.	What is the purpose of your testimony in this case?
17	A.	My testimony addresses the calculation of the capacity adder portion of the renewable
18		avoided cost rate as it is currently applied to solar qualifying facilities (QFs). This
19		calculation is only applicable in the resource deficiency period when the QF is
20		assumed to avoid a proxy resource or proxy resources under Oregon's proxy method.
21	Q.	Please describe the proxy method as it has been used in Oregon.
22	A.	The proxy method has been used for many years in Oregon to set avoided costs in the
23		resource deficiency period. For standard avoided costs, the proxy resource is

1		assumed to be the next deferrable major thermal resource addition in the Company's
2		acknowledged integrated resource plan (IRP). Over the past several years and
3		currently, the next deferrable major thermal resource has been a combined cycle
4		combustion turbine (CCCT). Avoided costs during the deficiency period are assumed
5		to be the cost of the proxy resource.
6		For rate design, the proxy method incorporates a two-step volumetric
7		approach for avoided capacity costs. First, the capacity related portion of the CCCT
8		fixed costs are converted to a dollar-per-megawatt-hour rate using the capacity factor
9		of the proxy CCCT identified in the IRP. Second, that rate is applied to all on-peak
10		hours. On-peak hours are defined as 6 AM to 10 PM Monday through Saturday,
11		excluding holidays, or 57 percent of the hours in a year. This two-step capacity
12		contribution methodology has been in place for many years.
13	Q.	Did Oregon solar QFs receive 100 percent of the capacity dollars of the proxy
14		CCCT in the past, even when the capacity contribution was assumed to be 100
15		percent?
16	A.	No. Assume for example that a typical Oregon solar QF has a capacity factor of
17		about 22.5 percent. As previously noted, the capacity costs of the proxy CCCT are
18		spread over on-peak hours, or 57 percent of the hours in a year. As a result, a solar
19		QF would only receive that rate during the hours in which it generated, so a typical
20		Oregon solar QF historically received about 39.5 percent of the proxy capacity dollars
21		under standard avoided cost rates. ¹

¹ The 39.5 percent is the amount of time a solar QF is generating during the on-peak hours (22.5 percent divided by 57 percent).

2 A. The standard renewable avoided cost rate that went into effect on August 20, 2014, is 3 calculated using the same two-step approach as the standard rate. The only difference is the proxy resource—where the standard avoided cost rate uses the capacity costs 4 5 and capacity factor of the CCCT proxy, the standard renewable avoided cost rate uses 6 the capacity costs and capacity factor of a wind proxy (i.e., the next significant 7 renewable resource identified in the IRP). For rate design, the wind proxy capital 8 costs are first converted to a dollar-per-megawatt-hour rate using the capacity factor 9 of the wind proxy identified in the IRP which is currently 40 percent. That rate is then 10 applied to on-peak hours (i.e., 57 percent of hours). 11 **Q**. What is the capacity adder? 12 A. If additional capacity is deemed to be deferred beyond the wind proxy capacity as is 13 the case for solar QFs, then the capacity related costs of a proxy CCCT are added to 14 the on-peak rate in compliance with Order No. 14-058 in Phase 1 of UM 1610. This 15 second capacity deferral is referred to as the capacity adder. The rate for the capacity 16 adder is calculated in the same manner as the capacity costs are calculated under the 17 standard rate, i.e. the proxy CCCT capacity costs are converted to a dollar-per-18 megawatt-hour rate using the proxy resource capacity factor then applied to all on-19 peak hours. 20 **O**. Why is there a capacity adder? 21 The capacity adder was deemed necessary by the Commission to account for A.

Please describe the standard renewable avoided cost calculation.

22 differences in capacity contribution of various renewable resources.

Opening Testimony of Gregory N. Duvall

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O.

Q. What issue has been raised regarding the application of the capacity adder for solar QFs?

3 A. On April 24, 2014, Obsidian Renewables LLC (Obsidian) filed a motion for 4 clarification in which it claimed that applying the capacity adder on a dollars-per-5 megawatt-hour basis results in an inadvertent "double discount" of the capacity 6 payment to a solar QF because the solar QF has a relatively low capacity factor and 7 does not generate the same amount of energy as the capacity resource. Obsidian 8 argued that the capacity adder should be paid as a fixed dollar amount to the QF 9 rather than depend on the QFs actual energy output. OneEnergy Inc. and the 10 Community Renewable Energy Association (CREA) also filed a motion for 11 clarification that supported the claims made by Obsidian. OneEnergy and CREA 12 propose that the proxy capacity costs could be spread using the QF's capacity factor 13 rather than capacity factor of the proxy resource. The result is the same under either 14 proposal, and both proposals result in higher payments to a solar QF for the standard 15 renewable avoided costs.

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Q. What differentiates capacity contribution from capacity factor?

A. The capacity factor of a generating resource is a measure of how much energy that
resource is expected to produce over a given period of time. The capacity
contribution of a generating resource takes into account the timing of the generation
and how it contributes to system reliability. Like capacity contribution, the capacity
factor is represented as a percentage of plant capacity; however, the two metrics have
entirely different meanings. For example, consider two hypothetical power plants
operating at a 50 percent capacity factor. Both plants produce energy at half of their

1		full capability over the course of a year. However, assume one plant achieves a 50
2		percent capacity factor by producing energy in hours when the probability of
3		reliability events are lowest and the other plant achieves its 50 percent capacity factor
4		by producing energy in hours when the probability of reliability events are highest.
5		The former would have a low capacity contribution value and the latter would have a
6		high capacity contribution value.
7		For standard avoided cost rates, the QF's capacity contribution is applied to
8		the capacity costs of the proxy CCCT, reducing the amount paid to an intermittent QF
9		for capacity. For the standard renewable avoided cost rates, payments to a QF for
10		capacity are increased by the capacity adder if the QF's capacity contribution is
11		greater than the capacity contribution of the renewable proxy.
12	Q.	What capacity contribution has been included in the proxy method in the past?
13	A.	All resources have been deemed to have a 100 percent capacity contribution in the
14		past.
15	Q.	Did the Commission modify the application of capacity contribution in Order
16		No. 14-058?
17	A.	Yes. In Order No. 14-058 the Commission modified the standard and standard
18		renewable avoided costs to account for the capacity contribution of intermittent QF
19		resources relative to the proxy resource. Under the Commission-approved
20		methodology, the proxy resource capacity costs are reduced by the QF's capacity
21		contribution before conducting the previously described two-step process.
22	Q.	Please explain.

1		PacifiCorp, the capacity payment was determined by dividing 100 percent of the
2		CCCT capacity costs by the capacity factor of the CCCT to get a dollar-per-
3		megawatt-hour rate that was then applied to all on-peak hours. With the capacity
4		contribution at 13.6 percent for solar QFs, the capacity payment is now determined by
5		dividing 13.6 percent of the CCCT capacity costs by the capacity factor of the CCCT
6		to get a dollar-per-megawatt-hour rate that is applied to all on-peak hours. In other
7		words, the only change was to substitute the 100 percent capacity contribution with
8		the 13.6 percent capacity contribution leaving the remainder of the pricing formula
9		intact.
10	Q.	What is Obsidian's complaint?
11	A.	In its motion, Obsidian referred to the recognition of a solar QF's capacity
11 12	A.	In its motion, Obsidian referred to the recognition of a solar QF's capacity contribution as the "first discount," and it does not challenge the appropriateness of
	A.	
12	Α.	contribution as the "first discount," and it does not challenge the appropriateness of
12 13	Α.	contribution as the "first discount," and it does not challenge the appropriateness of recognizing a lower capacity contribution for solar QFs relative to a proxy CCCT.
12 13 14	Α.	contribution as the "first discount," and it does not challenge the appropriateness of recognizing a lower capacity contribution for solar QFs relative to a proxy CCCT. Obsidian refers to the two-step process of spreading of capacity costs to the on-peak
12 13 14 15	Α.	contribution as the "first discount," and it does not challenge the appropriateness of recognizing a lower capacity contribution for solar QFs relative to a proxy CCCT. Obsidian refers to the two-step process of spreading of capacity costs to the on-peak hours as the "second discount" because solar QFs that generate less energy compared
12 13 14 15 16	Α.	contribution as the "first discount," and it does not challenge the appropriateness of recognizing a lower capacity contribution for solar QFs relative to a proxy CCCT. Obsidian refers to the two-step process of spreading of capacity costs to the on-peak hours as the "second discount" because solar QFs that generate less energy compared to the proxy CCCT receive less in total dollars. In reality, this is not a discount from
12 13 14 15 16 17	A.	contribution as the "first discount," and it does not challenge the appropriateness of recognizing a lower capacity contribution for solar QFs relative to a proxy CCCT. Obsidian refers to the two-step process of spreading of capacity costs to the on-peak hours as the "second discount" because solar QFs that generate less energy compared to the proxy CCCT receive less in total dollars. In reality, this is not a discount from avoided costs at all; rather, it is simply the result of the proxy method's two-step

1	Q.	Since the Commission replaced the 100 percent capacity contribution for solar
2		QFs with 13.6 percent, how much of the proxy CCCT capacity costs would be
3		paid to a solar QF under the new capacity adder rates?
4	A.	Using the example cited above, a solar QF would be paid 13.6 percent of
5		39.5 percent, or 5.4 percent of the proxy CCCT capacity costs, as opposed to
6		13.6 percent as proposed by Obsidian, CREA and OneEnergy.
7	Q.	Can you provide an example that illustrates the fallacy of the proposal made by
8		Obsidian, CREA and OneEnergy?
9	A.	Yes. Assume the capacity contribution for a solar QF was 39.5 percent instead of
10		13.6 percent and the capacity factor in this example remains at 22.5 percent. In this
11		case, Obsidian, CREA and OneEnergy would assert that a solar QF should receive
12		39.5 percent of the CCCT capacity costs, which is the same amount of CCCT
13		capacity costs the solar QF in this example would have been paid before the
14		Commission reduced their capacity contribution. This outcome is senseless. In
15		essence, Obsidian, CREA and OneEnergy are attempting to mitigate the impact of the
16		reduction in capacity contribution ordered by the Commission by suggesting the long-
17		standing two-step rate design process for the proxy method be abandoned.
18	Q.	Has the avoided cost calculation used by the Company in the past, and re-
19		affirmed by the Commission in Order 14-058, been thoroughly reviewed?
20	A.	Yes. The Company's calculation of avoided cost rates was thoroughly reviewed by
21		the Commission staff in UM 1442 in 2009. In Order No. 09-506, the Commission
22		quoted staff's conclusion that:
23 24		PacifiCorp filed its avoided cost rates using the methodologies required by Order No. 05-584. I further conclude that the prices

1 2		PacifiCorp used to determine the rates were consistent with the projected market prices available to the company at the time they
3 4		filed the rates. PacifiCorp calculated their rates without making any arithmetical errors, and the rates that were put into effect are
5		reasonable. In addition, the current rates appear to have been
6 7		calculated using the same methodologies that were used to determine the previous avoided cost rates that had been in place for
8		two years after being approved in Advice No. 07-021." ²
9	Q.	Did any party contest the long-standing rate design of the proxy method in
10		Phase 1 of UM 1610?
11	A.	No. The standard avoided cost methodology was an issue identified for review in
12		Phase 1 of UM 1610; parties had an opportunity to challenge the rate design, but did
13		not do so. The rate design was clearly laid out by Staff in Phase 1 and has been part
14		of the proxy method for many years. Parties should have challenged it in Phase 1 if
15		they did not think it was appropriate.
16	Q.	Why is it appropriate to use the capacity factor of the proxy resource to
17		determine capacity payments under the proxy method rather than paying QFs
18		fixed capacity payments or using the QF's capacity factor to determine the
19		capacity payments?
20	A.	Avoided costs during the deficiency period are defined as the cost of a proxy resource
21		and are intended to reflect the "actual deferral or avoidance of that resource." ³ Using
22		a capacity factor from another resource to determine payments for avoided capacity is
23		not representative of the costs of the proxy resource. Furthermore, the capacity costs
24		of a proxy CCCT provide several benefits to the utility that are not provided by an
25		intermittent solar QF, including the ability to dispatch the resource on an as-needed

² Docket UM 1442, Order No. 09-506 at 4. ³ Docket UM 1129, Order No. 05-584 at 26.

basis and the ability to provide operating reserve capacity. Fixing the capacity adder
 dollars paid to a solar QF would inflate the standard renewable avoided cost rates and
 move the method further away from true avoided costs rather than closer.

4 Q. Are there also energy-related costs related to a solar QF that are not accounted
5 for as a result of using the proxy method?

6 A. Yes. Under the approved standard renewable rate, a 10 megawatt solar QF would 7 displace 10 MW of a proxy wind plant and about one megawatt of a proxy CCCT, 8 which are the Company's next deferrable renewable and thermal resources, beginning 9 in 2024. Even if an Oregon solar QF only operates at a 22.5 percent capacity factor it 10 is assumed to replace a wind resource that operates at about a 40 percent capacity 11 factor. In this example, the Company loses about 1.75 average megawatts of energy 12 (10 megawatts * (40% - 22.5%)) or about 15,330 megawatt-hours of zero-cost energy 13 (1.75 average megawatts * 8760 hours). Assuming the wholesale power market price 14 in 2024 is \$55 per megawatt-hour, this represents a cost to customers of about \$0.8 15 million for 10 megawatts of a solar QF. Deferring an additional one megawatt of a 16 CCCT through the capacity adder creates an additional energy cost and a loss of 17 reserve capacity which have not been quantified but would increase the \$0.8 million 18 cost to customers.

19 **Q.**

What do you conclude from this example?

A. With respect to energy, the proxy method overstates avoided costs during the
deficiency period by at least \$0.8 million for each 10 megawatts of solar QFs. The
cost to customers grows as more and more QFs choose standard renewable rates.
This equates to an overpayment of about \$6 million annually for the approximately

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75 megawatts of signed solar QF contracts and another \$27 million annually for the approximately 325 megawatts in the queue.

3 Q. Are there other reasons the standard avoided costs are overstated?

4 Yes. The proxy method assumes the avoided energy costs in the off-peak period A. 5 during the deficiency period are equal to the fuel cost of the proxy CCCT. In reality, 6 the CCCT fuel cost is not always the lowest cost option in the off-peak periods, and 7 therefore energy costs during the off-peak periods are overstated. In addition, during 8 the sufficiency period avoided energy costs are overstated because adding QF power 9 to the Company's resource portfolio does not always result in more market sales or 10 avoided market purchases, which is the underlying assumption supporting the 11 Commission-approved method. In some hours, incremental power from a QF may 12 result in back down of thermal resources, which have a lower value than market, in 13 addition to potentially avoiding market purchases or increasing market sales. 14 **Q**. Do you recommend any change to the calculation of the capacity adder portion

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of the standard renewable avoided cost rate?

A. No. The Commission should confirm the decision reached in Order No. 14-058 and
should not adopt additional changes to the standard renewable avoided cost rates that
will further exacerbate the difference between avoided cost rates and the costs that
can actually be avoided by the utility.

- 20 Q. Do you have any other comments?
- A. Yes. The Company continues to advocate replacing the proxy method with a
 differential revenue requirement method as the Company proposed in Phase 1 of this

- 1 proceeding. The differential revenue requirement method would fix the energy
- 2 overpayments described above.
- 3 Q. Does this conclude your opening testimony?
- 4 A. Yes.