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**VIA ELECTRONIC FILING**

Attention: Filing Center  
Public Utility Commission of Oregon  
201 High Street SE, Suite 100  
P.O. Box 1088  
Salem, Oregon 97308-1088

**Re: Docket UM 2011 – *Public Utility Commission of Oregon, General Capacity Investigation.***

Attention Filing Center:

Attached for filing in the above-captioned docket are the Joint Utilities' Comments on Staff's Best Practices Guidelines.

Please contact this office with any questions.

Sincerely,

Alisha Till  
Paralegal

Attachment

**BEFORE THE PUBLIC UTILITY COMMISSION  
OF OREGON**

**UM 2011**

In the Matter of

PUBLIC UTILITY COMMISSION OF  
OREGON,

General Capacity Investigation.

**JOINT UTILITIES' COMMENTS ON  
STAFF'S BEST PRACTICES  
GUIDELINES**

1           Portland General Electric Company (PGE), PacifiCorp dba Pacific Power (PacifiCorp),  
2           and Idaho Power Company (Idaho Power) (together, the Joint Utilities) respectfully submit these  
3           comments on Staff's "Capacity Value Best Practices" (hereinafter, the Proposed Best Practices)  
4           that was circulated to the parties on September 30, 2021.

5           Staff's Proposed Best Practices are a significant improvement over the straw proposals that  
6           were previously circulated on June 8 and July 13, 2021. Most importantly, Staff has included  
7           flexibility that allows the Joint Utilities to use alternative methodologies, rather than the rigidly  
8           defined and problematic Effective Load Carrying Capability (ELCC) approach recommended by  
9           Energy + Environmental Economics (E3) in its Whitepaper, filed on December 15, 2020. The  
10          Joint Utilities welcome this exception because it is responsive to their previously raised concerns.  
11          And given that serious concerns regarding Staff's ELCC approach remain unresolved, the Joint  
12          Utilities anticipate using alternative methodologies if the Proposed Best Practices remain  
13          unchanged.

14          The Joint Utilities generally agree with Staff's overall goal—to establish general best  
15          practices for estimating resource capacity contributions. However, all production cost modeling  
16          and modeling electric system operations must balance numerous competing objectives and some  
17          of Staff's requirements are overly prescriptive and fail to allow for a balance of data inputs that

1 reasonably reflect all the desired objectives. In addition, given the nature of this investigation,  
2 Staff’s proposal has not been tested using actual data and evidence to show that it produces  
3 reasonable results when applied to specific applications, such as qualifying facility (QF) avoided  
4 costs under the Public Utility Regulatory Policies Act of 1978 (PURPA). Adopting overly  
5 prescriptive and untested requirements in isolation from each utility’s rigorous integrated resource  
6 planning (IRP) process could trigger unintended and unreasonable results when put into practice.

7 Instead of detailed and prescriptive requirements, the Joint Utilities continue to recommend  
8 that the Public Utility Commission of Oregon (Commission) adopt high-level guidance that allows  
9 flexibility to respond to rapidly evolving industry best practice and to utilize alternative  
10 methodologies if they are reasonable.

## 11 I. DISCUSSION

### 12 A. The Joint Utilities appreciate the flexibility included in the Proposed Best 13 Practices and anticipate using alternative methods to estimate capacity 14 contributions.

15 Consistent with Staff’s initial ELCC modeling standards straw proposal circulated on June  
16 8, 2021, paragraph 2 of Staff’s Proposed Best Practices states the “capacity contribution of all  
17 types of supply-, and demand-side resources must be determined using the resource type’s  
18 (including hybrid resources’) Effective Load Carrying Capability (ELCC).” Paragraph 2 then  
19 outlines how the ELCC is calculated: “ELCC is calculated by the following steps: 1) calculating  
20 system reliability, 2) adding the desired resource to the resource portfolio, and then 3) removing  
21 perfect capacity until the original level of reliability is restored.” Unlike its straw proposal, Staff

1 now includes an exception that allows for alternative methodologies to estimate resource capacity  
2 contribution, subject to certain additional requirements.<sup>1</sup>

3 Over the course of this docket, the Joint Utilities have emphasized that Staff’s proposal  
4 embodied in paragraph 2 is unworkable because it is overly burdensome. And further, Staff has  
5 adopted E3’s narrow definition of ELCC without support.<sup>2</sup> These concerns remain unresolved.

6 As drafted, paragraph 2 would require a series of stochastic production cost model runs  
7 with many iterations for every resource configuration and multiple study years.<sup>3</sup> Because the  
8 precise level of perfect capacity is an input to the calculation but not known, studies must be  
9 repeated until the results achieve a desired level of accuracy. This represents potentially dozens  
10 of studies and weeks of model run time. For example, PGE’s latest IRP included 12 proxy  
11 renewable and storage resources, and the ELCC methodology based on a single test year created  
12 12 estimated ELCC curves. Generating four annual values would create 48 ELCC curves without  
13 also considering Staff’s additional requirements regarding generic resource classes.

14 In addition to being onerous to produce, the results using Staff’s preferred approach would  
15 not be transparent. For example, the resulting resource-specific capacity contribution value would  
16 not provide details about the timing of the capacity need or the relative benefits of generation and

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<sup>1</sup> For reference, paragraph 11 states, in part: “In the event that calculating ELCCs for many resources for several years is not practical from a utility workload perspective, a utility may use an alternative method to estimate resource capacity contribution. One such “qualifying” alternative method is developing 8760 LOLP values for each year of the study period consistent with the requirements set forth in paragraphs 3 and 4 on study assumptions. In an overlay capacity-contribution approach using the 8760 LOLP value matrix, the capacity contribution of a variable resource must be derived taking into account both the distribution of its output across available actual or synthetic weather and the resource adequacy power reliability standard such as overlaying each of the eight years of variable generation and selecting a capacity value that can reasonably be relied upon for planning purposes . . .”).

<sup>2</sup> See, e.g., PacifiCorp Comments on Staff’s Effective Load Carrying Capability (ELCC) Straw Proposal (July 9, 2021); PGE Comments to Staff’s straw proposal ELCC modeling standard (July 9, 2021). The Joint Utilities have supported determining capacity contribution based on the *techniques reflected in the ELCC methodology* but have steadfastly opposed Staff’s characterization of the methodology that Staff envisions the utilities performing. See Joint Utilities’ Reply Comments at 6 (Apr. 26, 2021).

<sup>3</sup> Although Staff’s proposal reduced the number of study years that would be required, the burden associated with complying with Staff’s proposal remains significant.

1 storage in a hybrid resource. Employing Staff’s narrowly defined ELCC methodology would also  
2 place the utility in a position of providing credit for capacity even when there is no capacity need,  
3 as discussed in more detail below. The rigidity of Staff’s methodology, reflected in both paragraph  
4 2 and in the study assumptions in paragraphs 3 and 4, would also constrain the utilities’ ability to  
5 innovate and improve capacity contribution methodologies, which is an area where there has been  
6 considerable progress in recent years.

7 Staff also concedes that its proposed methodology will produce positive capacity  
8 contribution results under all circumstances, even if the utility has sufficient existing resources to  
9 meet its reliability planning targets.<sup>4</sup> Designing a methodology that produces a positive capacity  
10 value under all circumstances is unreasonable and fundamentally at odds with prudent utility  
11 resource planning, which seeks additional capacity resources only when needed.

12 Given the level of effort, inflexibility, and lack of transparency inherent in the requirements  
13 set forth in paragraph 2, the Joint Utilities intend to determine their estimated capacity  
14 contributions using alternative methodologies, as contemplated by paragraph 11. Because the  
15 Joint Utilities foresee using alternative methodologies, they offer two proposed modifications to  
16 the Proposed Best Practices to better reflect how the utilities will implement Staff’s proposed  
17 capacity valuation methodology.

18 First, the Joint Utilities recommend that Staff modify paragraph 2. PGE proposed  
19 alternative language in its July 9, 2021, comments and reiterated its proposal in its August 2, 2021,  
20 comments. PGE recommended, and the Joint Utilities support, rewriting paragraph 2 as follows:

21 The preferred method for estimating the capacity contribution of  
22 supply-side and demand-side resources is the Effective Load  
23 Carrying Capability (ELCC) methodology or similar probabilistic  
24 methods that estimate capacity performance based upon simulated  
25 reliability metrics. For the purposes of estimating incremental

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<sup>4</sup> Proposed Best Practices at n. 3.

1 resource capacity contributions, the marginal capacity contribution  
2 methods should be identified (ex. “Last-in ELCC”). Utilities are  
3 invited to use alternative methodologies following demonstration of  
4 good cause to the Commission.

5 Adoption of the Joint Utilities’ proposed language would obviate the need for paragraph 11  
6 because it would specifically allow reasonable alternative methodologies, subject to the utility  
7 demonstrating good cause to the Commission. For example, PacifiCorp’s July 9, 2021, comments  
8 outlined a reasonable alternative to Staff’s preferred methodology that would provide comparable  
9 results based on its IRP’s preferred portfolio, with the advantage of more transparency and  
10 accessibility. PacifiCorp’s alternative methodology would also obviate the need for many of the  
11 study assumptions in paragraph 3 because 20 years of data will be readily available and can be  
12 applied to any resource configuration without additional model runs. Given the superiority of  
13 alternative methodologies, the Joint Utilities’ proposal for paragraph 2 would better reflect best  
14 practices and should be included.

15 Second, and in the alternative, the Joint Utilities propose amending paragraph 11 to clarify:  
16 (1) that it does not apply only if the preferred methodology is too burdensome; (2) that an  
17 alternative methodology need not necessarily use consistent study assumptions as those described  
18 in paragraphs 3 and 4:

19 ~~In the event that calculating ELCC for many resources for several~~  
20 ~~years is not practical from a utility workload perspective, A utility~~  
21 ~~may use an alternative method to estimate resource capacity~~  
22 ~~contribution. One such “qualifying” alternative method is~~  
23 ~~developing 8760 LOLP values for each year of the study period~~  
24 ~~consistent with the requirements set forth in paragraphs 3 and 4 on~~  
25 ~~study assumptions. In an overlay capacity contribution approach~~  
26 ~~using the 8760 LOLP value matrix, the capacity contribution of a~~  
27 ~~variable resource must be derived taking into account both the~~  
28 ~~distribution of its output across available actual or synthetic weather~~  
29 ~~and the resource adequacy power reliability standard such as~~  
30 ~~overlaying each of the eight years of variable generation and~~  
31 ~~selecting a capacity value that can reasonably be relied upon for~~  
32 ~~planning purposes. In the event the utility uses an alternate method~~

1 to determine the capacity contribution of a resource, the utility shall  
2 prepare a written explanation that includes:  
3 a. An explanation as to why the utility did not use the ELCC  
4 modelling approach;  
5 b. A detailed description of the alternative method;  
6 c. A discussion of how the utility’s alternative method reflects best  
7 practices ~~and conforms to the modelling objectives and directions~~  
8 ~~contained in paragraphs 3 through 6;~~ and  
9 d. Whether the utility expects it will be practical to use the ELCC  
10 method in the future.

11 These edits provide broader flexibility for the use of alternative methodologies for any  
12 reason provided the utility demonstrates the reasonableness of its alternative. These edits  
13 recognize that the burdensomeness of Staff’s preferred approach was only one reason that the Joint  
14 Utilities objected to its use. The substantive requirements and assumptions were also problematic  
15 and justify providing an opportunity to use reasonable alternative methodologies. Moreover, the  
16 Joint Utilities recommend striking the reference to the study assumptions in paragraphs 3 and 4  
17 because those assumptions remain unreasonable, as discussed in the following section.

18 **B. Staff’s proposed study assumptions are overly prescriptive and unreasonable.**

19 Industry best practices for estimating resource capacity contributions are constantly  
20 evolving as additional data and computational methodologies become available. Staff’s Proposed  
21 Best Practices include overly prescriptive study assumptions in paragraphs 3 and 4 that will stifle  
22 innovation and lock-in a framework that may prove obsolete within a few years. In addition to  
23 being too rigid, Staff’s proposed study assumptions also depart from well-established principles  
24 of utility resource planning.

25 **1. Staff’s proposal to ignore new resources would produce meaningless capacity**  
26 **contribution results (paragraph 3(g)).**

27 Paragraph 3(g) excludes non-committed resources from the capacity contribution studies.  
28 Implementing this proposal would require the Joint Utilities to evaluate a portfolio that becomes  
29 grossly unreliable over time as load increases, resources retire, and contracts expire. For example,

1 the load-and-resource balance in PacifiCorp’s 2021 IRP shows that PacifiCorp has a capacity  
2 deficit in all years of the planning horizon—starting at 1,071 MW in 2021 and then rising over  
3 time to over to 6,600 MW by 2040.<sup>5</sup> The resource portfolio used to determine a resource’s capacity  
4 contribution must have sufficient resources to make it reliable, which is why the study must include  
5 the incremental resources from the IRP’s preferred portfolio. Any portfolio that does not provide  
6 adequate reliability is irrelevant for purposes of determining an individual resource’s capacity  
7 contribution. Indeed, the first step in Staff’s recommended ELCC calculation is to calculate  
8 system reliability. That cannot occur in any meaningful way if the system is unreliable due to lack  
9 of resources.

10 Moreover, a resource’s capacity contribution is portfolio-dependent, and recent least-cost,  
11 least-risk outcomes indicate that the greatest benefits are achieved using a mix of resource types  
12 including wind, solar, and storage. Ignoring the composition of the least-cost, least-risk portfolio  
13 (by excluding the expected build out of the most beneficial uncommitted resources) will fail to  
14 provide an accurate representation of an individual resource’s capacity contribution. This is  
15 particularly true for the last-in methodology where the timing and order of incremental resource  
16 additions can potentially impact the capacity contribution of the resource being studied.

17 **2. Determining multiple capacity contribution values over the 20-year planning**  
18 **horizon is unreasonable (paragraph 3(e)).**

19 The Joint Utilities currently determine resource capacity contributions in their IRPs using  
20 a single test year. Staff recommends each utility calculate at least four annual estimates of capacity  
21 contribution for every resource type and then extrapolate annual values for 20 years. Staff has not  
22 explained how the value provided by its recommendation outweighs the significant burden that

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<sup>5</sup> See PacifiCorp’s 2021 Integrated Resource Plan, Vol. I, Table 6.12.



1 will be imposed. The Commission should not adopt such an onerous requirement in isolation and  
2 without the benefit of evidence.

3           Instead, the Joint Utilities recommend that each utility discuss in its IRP public process the  
4 number of years for which capacity contribution estimates will be developed. This is consistent  
5 with the approach taken in PGE’s 2019 IRP Update, where Staff recommended, PGE agreed, and  
6 the Commission ordered that capacity contribution estimates be developed for years beyond the  
7 test year in PGE’s subsequent IRP. Rather than prejudging the usefulness of annual estimates  
8 here, the Joint Utilities favor considering and evaluating the number of test years within the context  
9 of the IRP process, understanding that the IRP itself will neither rely on the methodology addressed  
10 here nor include capacity contribution results.<sup>6</sup>

11           Consistent with the foregoing, the Joint Utilities recommend that paragraph 3(e) be  
12 amended to read:

13                   Capacity contribution estimates should be developed for each  
14 generic resource class. The capacity contribution values should be  
15 based on one or multiple test year(s) or test year period(s). The test  
16 year(s) or test-year period(s) will be identified and updated for each  
17 utility IRP. Capacity contribution estimates should be updated in  
18 each IRP and IRP Update as appropriate.

19           **3. The Proposed Best Practices should clarify that the number of resource classes**  
20           **should be determined in each utility’s IRP (paragraph 3(b) and (c)).**

21           Staff recommends that each utility develop a capacity contribution estimate for certain  
22 defined resource classes and includes a provision that allows for additional resource classes to be  
23 included in the future. Staff does not, however, identify the resource classes. Mindful of the  
24 burden associated with estimating capacity contributions, the Joint Utilities recommend that each  
25 utility identify the appropriate number of generic resource classes for which capacity contribution

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<sup>6</sup> See Proposed Best Practices, paragraph 14 (proposing that utilities report capacity valuation results post-IRP).

1 estimates are required in its IRP, based on consideration of factors such as technology, plant  
2 design, geography for generating sources, and duration and efficiency for energy storage.

3 **4. Staff’s proposed use of eight years of data, including synthetic data is arbitrary**  
4 **and unreasonable (paragraph 4(a) and (b)).**

5 For both existing and new resources, Staff recommends using eight years of actual data, if  
6 available, supplemented with synthetic data from third-party vendors if there are not eight years  
7 of actual data available. Staff’s blanket requirement for the use of eight years of data—including  
8 synthetic data as necessary—is arbitrary and fails to strike the correct balance of data quality versus  
9 quantity given the range of assumptions that are incorporated in synthetic modeled generation  
10 profiles.

11 Staff has presented no evidence that using eight years of combined historical and synthetic  
12 data produces a superior capacity contribution estimate, particularly given the potential costs that  
13 will be incurred to obtain synthetic data from third-party vendors. The most accurate estimate of  
14 expected annual output (i.e., the “mean” in paragraph 4(a)(i)) comes from detailed modeling of the  
15 proposed site and equipment, which is generally performed by the project developer (or their  
16 consultant) and incorporates onsite meteorological data. Generic historical or synthetic data  
17 sources do not have the same level of detail and refinement. Moreover, if site-specific information  
18 is unavailable, the Joint Utilities generally have sufficient historical data that is superior to using  
19 a combination of historical data and synthetic data.

20 Staff’s methodology should prioritize data quality, instead of mandating a specific quantity,  
21 and should allow flexibility for methodologies to change and improve as data sources evolve.  
22 Public data sets developed by the National Aeronautics and Space Administration and the National  
23 Renewable Energy Laboratory can provide a good estimate of the “variance” in an individual  
24 location, and if the data is available for a specified period that overlaps with the data for the utility’s

1 load or other existing generation, expected relationships between a proposed resource and load or  
2 existing generation can be defined and incorporated in modeling. But the details of how that  
3 should be achieved are continually under development, both as a result of evolving methodologies  
4 and the increasing availability of actual data. Emphasizing data quality and allowing data  
5 methodologies to evolve are particularly important given Staff’s desire to incorporate the impacts  
6 of climate change.

7 Staff also requests that the utilities adjust historic weather and generation data, as  
8 appropriate, to account for climate change. Separately, in paragraph 6, Staff recommends that the  
9 utilities’ modeling account for the impact of multi-day weather events in the duration of energy  
10 storage and demand response. It is unclear what specific analysis Staff envisions and whether  
11 these two requirements are duplicative or distinct.

12 **C. Separately analyzing the correlation between weather and utility load data is**  
13 **unnecessary (paragraph 5).**

14 Staff recommends that with each IRP filing, utilities should include analysis that  
15 determines if there is a correlation of weather/utility load data and renewable resource generation  
16 data. Further, if such a correlation exists, then it should be included in the capacity contribution  
17 ELCC modelling. The Joint Utilities agree that the potential correlation of weather and utility load  
18 data needs to be embedded in the capacity contribution calculations, but there is no reason to  
19 require additional duplicative analysis.

20 **D. Resource degradation must be accounted for when estimating capacity**  
21 **contribution (paragraph 10(a)).**

22 Staff recommends that each resource’s capacity value will be calculated based on the  
23 annual capacity contribution values and that the capacity contribution in terms of megawatts will  
24 not be discounted over time. It is unclear what Staff intends with this requirement, but to the extent

1 Staff is recommending that the modeling ignore, for example, solar generation degradation over  
2 time, Staff’s recommendation is unreasonable.

3 **E. Energy and capacity benefits must be aligned when estimating capacity value**  
4 **(paragraph 9(b)).**

5 In paragraph 9(b) Staff recommends that the capacity value account for any “dispatch  
6 benefits unrelated to providing capacity.” It is important that energy and capacity benefits be  
7 aligned. To the extent compensation for energy is based on market prices, rather than the generally  
8 lower system marginal costs from a production cost model, the netted dispatch benefits of the least-  
9 cost capacity resource should also be valued based on market prices rather than marginal costs.

10 **F. The Proposed Best Practices must be amended to clarify that they are not**  
11 **mandatory for any specific application.**

12 Staff’s cover letter that accompanied the Proposed Best Practices states, “Staff proposes to  
13 recommend that the Commission adopt the Best Practices as guidelines that utilities are expected  
14 to adhere to across various use cases.” But, according to Staff, “To the extent the Commission  
15 adopts the Best Practices as a mandatory method to value capacity, i.e., for PURPA avoided cost  
16 prices, *the Commission would do so in a different docket, i.e., UM 2000.*”<sup>7</sup> The Joint Utilities  
17 agree that before adopting Staff’s proposal for use in any specific application—particularly  
18 PURPA avoided cost pricing—the Commission must make that determination in a separate docket  
19 where Staff’s proposal can be rigorously tested using actual data.

20 Consistent with Staff’s apparent position that the Proposed Best Practices should not  
21 become mandatory as a result of this investigation, the Proposed Best Practices must be amended.

22 Paragraph 1 states:

23 These policies and procedure are applicable when assigning a  
24 capacity value to a supply or demand side resource, outside of an  
25 Integrated Resource Plan portfolio analysis, Request for Proposals

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<sup>7</sup> Emphasis added.

1 under Division 89, or Resource Adequacy program(s). This  
2 currently includes the following regulatory purposes: PURPA  
3 Resource avoided capacity cost determinations, energy efficiency  
4 cost effectiveness, demand response cost effectiveness, storage pilot  
5 cost effectiveness, resource value of solar determinations, and  
6 voluntary green tariff development and procurement.

7 This paragraph appears to make the Proposed Best Practices “applicable” to PURPA avoided cost  
8 pricing determinations, which is directly contrary to Staff’s statement in the cover letter that the  
9 Proposed Best Practices will not apply to PURPA avoided cost pricing determinations unless and  
10 until the Commission makes that determination in an appropriate PURPA-specific docket, like  
11 docket UM 2000.

12 Staff should also clarify the relationship between the Proposed Best Practices and the IRP.  
13 Paragraph 1 states that the Proposed Best Practices do not apply to IRPs. But elsewhere, the  
14 document refers to an “IRP index,” although it is unclear what that is. In addition, paragraph 5  
15 describes climate-change-related modeling that will be included in each utility’s IRP, even though  
16 the Proposed Best Practices are not supposed to apply to IRPs according to paragraph 1.

17 **G. Staff’s capacity valuation methodology would violate PURPA if applied to avoided**  
18 **cost pricing.**

19 If Staff’s methodology for determining a capacity value is to be applied in calculating  
20 PURPA avoided cost pricing, it is contrary to the fundamental customer-indifference requirement.  
21 Staff acknowledges that its proposal would result in a positive capacity value for a new resource  
22 even if a utility is resource sufficient and has no need for additional capacity to meet system  
23 reliability targets.<sup>8</sup> To the extent this would produce a capacity payment to a QF without regard  
24 for utility need, it violates PURPA. Long-standing FERC precedent is clear—if the utility has no

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<sup>8</sup> Proposed Best Practices at n. 3. Although Staff claims that the ELCC will produce positive values in all circumstances, even strictly applying the ELCC can result in a resource having a zero capacity contribution once there is no additional “perfect capacity” that can be removed.

1 need for additional capacity, the avoided cost of capacity is zero.<sup>9</sup> The Ninth Circuit recently  
2 affirmed that a “QF would not be entitled to capacity costs unless it actually displaced the utility’s  
3 need for additional capacity.”<sup>10</sup> By creating positive capacity values (and therefore capacity  
4 payments) without regard for whether the QF allows the utility to avoid capacity costs, Staff’s  
5 proposal is fundamentally inconsistent with PURPA and cannot be used to determine PURPA  
6 avoided cost prices.<sup>11</sup>

7 Moreover, Staff’s proposal to increase the capacity value over a ramp-in period is arbitrary  
8 and lacks an evidentiary basis. Therefore, while the arbitrary ramp-in period may be acceptable  
9 in the abstract, it cannot form the basis for avoided cost pricing without evidence that it reasonably  
10 reflects the capacity costs a utility would *actually avoid* as a result of a QF transaction.

11 Finally, the Joint Utilities reiterate that when establishing avoided cost prices, the capacity  
12 component cannot be viewed in isolation. PURPA mandates that customers pay no more than a  
13 utility’s avoided costs. A methodology that separately determines the avoided cost of capacity and  
14 the avoided cost of energy without considering the holistic results runs the risk of forcing  
15 customers to pay more for QF generation than they would otherwise.

## 16 II. CONCLUSION

17 The Joint Utilities appreciate Staff’s flexibility to allow alternative methodologies for  
18 estimating resource capacity contributions, as Staff’s primary recommendation remains unduly  
19 burdensome and unreasonable. The proposed modifications discussed above will ensure that the  
20 ability to use alternative methodologies is not unreasonably hindered by overly prescriptive study

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<sup>9</sup> See *Qualifying Facility Rates and Requirements Implementation Issues Under the Public Utility Regulatory Policies Act of 1978*, 172 FERC ¶ 61,041 at P 424 (2020).

<sup>10</sup> *Californians for Renewable Energy v. Cal. PUC*, 922 F.3d 929, 938 (9th Cir. 2019); *id.* at 939 (“PURPA requires utilities to compensate QFs for capacity costs *only when purchasing energy from the QF allows the utility to forgo spending its own money on capacity.*”) (emphasis added).

<sup>11</sup> *Id.* at 937 (“FERC interpreted PURPA to require an examination of the costs that a utility is *actually avoiding.*”) (emphasis in original).

- 1 assumptions and will better ensure that each utility’s estimated resource capacity contributions are
- 2 workable, reasonable, and compliant with applicable legal requirements when taken together with
- 3 the proposal for calculating capacity contribution.

DATED: October 20, 2021.

**McDOWELL RACKNER GIBSON PC**

*/s/ Adam Lowney*

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