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OPEN MEETING AGENDA ITEM



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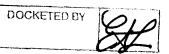
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Attorneys for: INTERSTATE RENEWABLE ENERGY COUNCIL, INC.

BEFORE THE ARIZONA CORPORATION COMMISSION

Bob Stump, Chairman
Gary Pierce, Commissioner
Brenda Burns, Commissioner
Bob Burns, Commissioner
Susan Bitter Smith, Commissioner

IN THE MATTER OF THE APPLICATION OF ARIZONA PUBLIC SERVICE COMPANY FOR APPROVAL OF NET METERING COST SHIFT SOLUTION. Docket No. E-01345A-13-0248

18 19

COMMENTS OF THE INTERSTATE RENEWABLE ENERGY COUNCIL, INC. ON STAFF'S RECOMMENDED OPTION, STAFF'S PROPOSED ALTERNATIVES AND COMMISSIONER PIERCE'S QUESTIONS ON STAFF'S ALTERNATIVE #2

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The Interstate Renewable Energy Council, Inc. (IREC) appreciates the opportunity to submit these comments in response to Staff's Recommended Opinion and Order, and the questions raised by Commissioner Pierce on Staff's Alternative #2 in his letter to this docket dated October 17, 2013. These comments supplement our October 10 filing to the docket regarding Staff's Proposed Order. We submit them concurrently with a letter to the docket

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critiquing the recent study of net metering (NM) benefits and costs for California's three largest investor-owned utilities by the consulting firm of Energy + Environmental Economics, submitted into this docket on September 30. IREC hopes that these additional comments will facilitate a thorough and equal consideration of *all three* options from Staff under Commission consideration. These are:

- 1. **Recommended Option**: no action. IREC agrees with Staff that the Arizona Corporation Commission (Commission) should reject Arizona Public Service Company's (APS) proposals to modify NM, make no changes to NM at this time, and evaluate valuation issues and potential modifications to NM in APS's next general rate case.
- 2. Alternative #1: a Lost Fixed Cost Recovery (LFCR) flat charge for all new distributed generation (DG) customers. If the Commission wishes to act in the interim, IREC recommends choosing Staff's Alternative #1.
- 3. Alternative #2: an LFCR DG Premium for all new DG customers. As IREC explains below and in our October 10 comments, Alternative #2 is not an appropriate interim solution, although it may warrant further consideration in workshops.

In addition, IREC emphasizes the urgent need for an unbiased study of the benefits and costs of NM, based on a transparent, agreed-upon methodology, which could inform any changes to NM.

I. Response to Commissioner Pierce's First Question on Staff's Alternative #2: "Of the scenarios shown in Staff's Appendix III, which is the most realistic scenario?"

IREC contends that all of Staff's Appendix III scenarios are fundamentally flawed because they rely on an inappropriate comparison between the cost of NM and the cost of utility-scale solar projects. Comparing the two is not an apples-to-apples comparison. Consequently, each scenario presents an unfair competitive advantage for generation procured by the utility through a Power Purchase Agreement (PPA) over net-metered DG, and none is "the most realistic."

Specifically, IREC believes:

1. The correct comparison should focus on the benefits and costs attributable to the specific resource, either the NM resource or the PPA resource. According to economic theory, rational individuals will consume products that provide a marginal benefit that exceeds the marginal cost. A PPA price may provide one possible

customers may provide another possible estimate. However, neither of these costs says anything about the marginal benefit (i.e., "value") that either investment provides to the consumer or to the public at large. In fact, the two products may not be mutually exclusive as suggested by a direct comparison of their costs. Both may be "worth doing" if the benefits to consumers exceed the costs. Thus, investments in solar, whether via NM or a PPA, should be deemed prudent based on whether benefits exceed costs, not solely based on which has a lower cost. Direct comparison of NM and PPA costs conflates two different types of resources which have fundamentally different attributes.

estimate for the marginal cost of solar energy. The retail rate for net metering

2. Public policy benefits deemed appropriate by the Commission should be included in the evaluation. DG is a unique resource that affords both tangible and intangible benefits to utility customers that utility-procured solar cannot provide. In part, this is because DG provides customers with more options and greater freedom when it comes to energy choices. Additionally, DG can provide capacity in more incremental amounts with lower financial risks to ratepayers than projects with large capital outlays. As IREC has emphasized repeatedly in this docket, a comprehensive and transparent benefit-cost analysis, which includes all of the benefits and costs of DG, is essential to informing changes to DG and NM policy at APS and at Arizona's other utilities.

Because the Appendix III Scenarios are fundamentally flawed, and for the other reasons outlined in our October 10 comments on Staff's Proposed Order, IREC does not support Staff's Alternative #2 and recommends that the Commission reject it. IREC instead urges the Commission to approve Staff's Recommended Option to take no action until APS's next general rate case, or in the alternative, Staff's Alternative #1.

II. Response to Commissioner Pierce's Second Question on Staff's Alternative #2: "We have Staff's conservative scenario on one end of the scale; I would like to have more information in order to be able to determine the most realistic scenario on the other end of the scale. What is the most realistic Assumed Utility Scale PPA Rate?"

IREC agrees with Staff's conclusion that \$0.10 per kilowatt-hour (kWh) is a reasonable estimate for a solar PPA price, though that is not directly comparable to the value provided by

NM systems. We believe this solar PPA price estimate is not overly conservative and that a lower estimate is neither necessary nor justified.

In a Response to a Data Request filed on September 23, 2013,¹ APS provided documentation of a recent solar PPA executed in California. This PPA was priced at approximately \$0.07 per kWh for a 35-megawatt (MW) project within a larger 100-MW project portfolio connected at the transmission level. If this PPA price is used as the basis for comparing the value provided by a 1- to 5-MW project interconnected at the sub-transmission level, it should be adjusted upwards to reflect the following:

- 1. Incremental transmission costs not included in the PPA price;
- 2. Incremental energy losses experienced by the larger project but not experienced by the smaller one;² and
- 3. Incremental development costs associated with the smaller project.

Accounting for these three factors would bring the comparable value of solar closer to \$0.10 per kWh, which matches with the value used by Staff in its analysis. IREC notes, however, that Staff has not proposed how to refresh this Assumed Utility Scale PPA Rate, either how frequently or through what mechanism, to capture ever changing solar prices. IREC believes it would be essential to identify and clearly describe this process if the Commission were to pursue Alternative #2. Regardless, IREC again emphasizes that it is not appropriate to compare this PPA price and the value of net-metered DG.

III. Response to Commissioner Pierce's Third Question on Staff's Alternative #2: "What is the most realistic Assumed Retail Rate?"

There is no one retail rate that is the "most realistic" since no retail rate is representative of all solar customers. In fact, the average retail rates paid by solar customers vary widely depending on their rate plans and usage patterns. For instance, the APS rate plan with the most

¹ Commissioner Pierce's October 17, 2013 letter in ACC Docket No. E-01345A-13-0248, available at: http://images.edocket.azcc.gov/docketpdf/0000149003.pdf

For instance, if the transmission investment required to support a 100-MW solar PPA is similar to the \$206 per kilowatt (kW) investment, which APS recently stated as required to support a 100-MW combustion turbine, this could increase the levelized cost of the project by approximately \$0.02 per kWh. ACC Docket No. E-01345A-10-0394, APS/SAIC 2013 Updated Solar Value Report at Table 2-7 (filed May 17, 2013), available at http://images.edocket.azcc.gov/docketpdf/0000144991.pdf.

residential solar customers is the ET-2 rate.³ Based upon the revenue requirement and consumption information from the 2010 test year used in APS's last rate case, the average retail rate required to serve ET-2 customers and presumably collected by APS is close to \$0.115 per kWh.⁴ Thus, while some solar customers may experience average rates higher than \$0.125 per kWh, others may in fact be lower. Staff's assumption of \$0.125 per kWh is not necessarily a conservative estimate for the average rate paid by solar DG customers. Anything short of a full rate case evaluation will produce an imprecise approximation that will undoubtedly pick winners and losers among solar customers.

Additionally, solar customers receive credits from NM at the full retail rate, which generally reflects the average cost to provide service. Even APS's time-of-use rates, which offer a slightly more precise estimate of the cost of service, reflect some averaging of costs. Meanwhile, solar DG provides energy that is peak-coincident, that is, available during the times of the day when the true cost of service may be much higher than the retail rate. Thus to provide a fair comparison, the comparable retail rate should be reduced by any credit DG customers are owed from producing power that is peak-coincident.

The need for parties to fully investigate and understand these rate-related issues is one reason why IREC supports Staff's Recommendation to defer this proceeding until APS's next rate case.

IV. Response to Commissioner Pierce's Comments on Staff's Alternative #1

In his letter, Commissioner Pierce comments that the Flat Charge LFCR (Staff Alternative #1) would "be offset by an imperceptible decrease to the LFCR" and is "little better than waiting until the next rate case." While IREC recognizes Commissioner Pierce's point, we believe that Alternative #1 represents a better compromise than Alternative #2, if a temporary solution is required. It works towards addressing the alleged cost shift issue, which, if present at

APS 2013 RES Implementation Plan, ACC Docket Nos. E-01345A-12-0290, E-01345A-10-0394, E-01933A-12-0296, E-04204A-12-0297, APS Response to The Vote Solar Initiative (Vote Solar) Data Request 4.13, available at www.solarfuturearizona.com/APSResponsetoVoteSolar4_Consolidated_2013RESImpPlan-12-0290_052213.pdf.

APS 2013 RES Implementation Plan, ACC Docket Nos. E-01345A-12-0290, E-01345A-10-0394, E-01933A-12-0296, E-04204A-12-0297, APS Responses to Vote Solar Data Requests 1.30 and 3.17, available at www.solarfuturearizona.com/APSResponseConsolidated.pdf and www.solarfuturearizona.com/APSResponsetoVoteSolar3 CONSOLIDATED 2013RESImpPlan-12-0290.pdf.

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all, is *de minimis* at this point, but does not place an unreasonable burden on solar customers and the solar industry.

From reviewing the relevant public records, however, it appears that Alternative #1 reflects a novel application of the LFCR opt-out provision that was not contemplated either in APS's rate application or in the final settlement agreement.⁵ The LFCR mechanism to which parties agreed in the 2011 APS rate case settlement agreement contemplates lost fixed costs from DG, which is the very subject of the present debate over NM. IREC was not party to the settlement agreement of APS's last rate case that produced the LFCR mechanism. Issues associated with unrecovered fixed costs associated with NM were raised as far back as APS's 2005 rate case. Parties to the 2011 settlement would likely have been aware of these issues and had the opportunity to address them through the development of the LFCR mechanism. The absence of such provisions in the final agreement suggests that the alleged NM cost shift was neither urgent nor important enough to the settling parties that it could not wait until a future rate case. As described in the 2011 settlement, the LFCR was broadly intended to address lost fixed costs from energy efficiency and distributed generation, but not necessarily intended to address costs shifts between customers. Moreover, the LFCR was only intended to address a portion of APS's fixed costs (e.g., it does not include generation costs). To address fixed costs beyond that, and to apply the LFCR mechanism to remedy alleged costs shifts, appears to greatly expand the scope of the LFCR's intended implementation.

Nevertheless, since Alternative #1 relies upon an existing provision of the LFCR, albeit for a different purpose, it may be a workable solution if the Commission feels compelled to adopt a temporary solution. In contrast to Alternative #2, Alternative #1 appears to be a reasonable compromise. It attempts to address the alleged cost shift issue without unreasonably burdening solar customers and the solar industry.

V. Comments Regarding Staff's Recommended Option

IREC agrees with Staff that the NM issue cannot be satisfactorily decided outside of the next general rate case, as we emphasized in our October 10 comments on Staff's Proposed

ACC Docket No. E-01345A-11-0224, Decision No. 73183, Exhibit A: APS Proposed Settlement Agreement, Section IX (January 6, 2012), available at http://images.edocket.azcc.gov/docketpdf/0000137042.pdf.

ACC Docket No. E-01345A-05-0816, Decision No. 69663, Section X-D Net Metering (June 28, 2007), available at http://images.edocket.azcc.gov/docketpdf/0000074350.pdf.

Order. A rate case is the correct venue to consider the full suite of rate-related issues inherent to NM for at least three reasons.

- 1. It is the proper forum in which to address the allocation of costs among customer types. Solar DG customers and non-solar customers both represent a wide range of APS rates and customer classes. Since NM and any alleged cost shifts it imposes will affect each type of customer in a different way, any attempt to fairly correct a cost shift through a single interim solution will inevitably fall short. More information is required about the specific cost for APS to serve different types of solar customers, especially in light of their reduced albeit not eliminated reliance on the grid infrastructure that APS provides. More information is also required about how the alleged cost shift is distributed among non-solar customers.
- 2. The benefits that DG provides to other customers are disputed and are central to assessing the magnitude of the alleged cost shift. As the APS-led technical conference demonstrated, the benefits and costs attributable to DG are a matter of dispute. Understanding their effect on non-participants requires a more complete picture of APS's full cost of service with differing levels of DG deployment supported by NM. This complete picture will only be available once APS files for its next rate case, at which time parties will have various essential pieces of information, including:
 - Updated information from APS regarding the cost of service for the customer classes representative of DG solar installations; and
 - Updated integrated resource plan (IRP) results with information on revenue requirements under different DG scenarios.

During the APS-led IRP workshops earlier this year, APS solicited feedback from stakeholders on possible inputs to its IRP modeling. IREC requested that APS conduct analysis on a high-DG scenario to provide stakeholders with better information on the reduction in APS's revenue requirement afforded by DG (e.g., from deferred utility-owned generation). This analysis is directly relevant to the question of whether the alleged cost shift exists and what its magnitude might be. While APS did not commit to performing this analysis, we think it would be informative in understanding the correct

value of NM in the next rate case. We urge the Commission to direct APS to include a high-DG scenario in its IRP analysis.

3. The bulk of any alleged cost shift will not be manifested until the next rate case. As described above, the bulk of any cost shift through adjustor mechanisms will be small by necessity. This means that any substantial costs shifts will not materialize until base rates are readjusted in the next rate case.

VI. Comments Regarding the Need for a Standardized Methodology to Inform an Unbiased Study of the Benefits and Costs of Net Metering

As IREC emphasized in our Protest in this docket as well as our October 10 comments on Staff's Proposed Order, it is critical that the Commission and stakeholders develop a standardized methodology—with a transparent set of assumptions and inputs—to inform an unbiased evaluation of net metering. Consistent with Staff's suggestion, IREC believes that the process for developing such a methodology could begin in Commission-led workshops leading up to APS's next general rate case. This standardized methodology could be used to conduct a benefit-cost study of NM to inform policy changes at that time.

Currently, Staff has two conflicting studies in the docket, along with additional analysis from other parties, all based on different and sometimes unclear assumptions and inputs. These do not provide a solid foundation on which to rest any changes to Arizona's NM policy or its implementation at APS. Any such changes require an unbiased and transparent benefit-cost study of NM. IREC strongly urges the Commission not pursue any changes to NM until such a study has been conducted. As discussed previously, IREC has retained Clean Power Research for that purpose and stands ready to work with Staff, the Commission and stakeholders in a workshop process to develop assumptions for a model run that is not directed by APS or the solar industry.

Respectfully submitted this 6th of November, 2013.

/s/ Erica Schroeder

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1	CERTIFICATE OF SERVICE
3	I hereby certify I have this day served an original and thirteen copies of the foregoing on this 6th day of November, 2013, with:
4 5 6	Docket Control Arizona Corporation Commission 1200 West Washington Street Phoenix, Arizona 85007
7	I hereby certify that I have this day served the foregoing documents by mail on all parties of record in this proceeding.
9	Dated this 6th day of November, 2013, in Phoenix, Arizona.
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