

**BEFORE THE KANSAS CORPORATION COMMISSION
OF THE STATE OF KANSAS**

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|---|---|----------------------------|
| In the Matter of the General Investigation |) | |
| To Examine Issues Surrounding Rate |) | Docket No. 16-GIME-403-GIE |
| Design for Distributed Generation Customers |) | |

**TESTIMONY OF THE CLIMATE AND ENERGY PROJECT
ADDRESSING NON-UNANIMOUS SETTLEMENT**

JUNE 20, 2017

1 INTRODUCTION

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

3 A: My name is Rick Gilliam. My business address is 590 Redstone Drive, Suite 100,
4 Broomfield, CO 80020.

5 **Q: By whom are you employed and in what capacity?**

6 A: I am the Program Director, DG Regulatory Policy for Vote Solar, a non-profit
7 organization working to foster economic opportunity and mitigate climate change by
8 bringing solar energy into the mainstream. Since 2002, Vote Solar has engaged in state,
9 local and federal advocacy campaigns to remove regulatory barriers and implement key
10 policies needed to bring solar to scale. Vote Solar is not a trade organization, nor does it
11 have corporate members. Vote Solar has over 300 members in Kansas.

12 **Q: On whose behalf are you testifying?**

13 A: I am testifying on behalf of the Climate and Energy Project (CEP).

14 **Q: Please provide your professional experience and qualifications.**

15 A: I have been with Vote Solar since January of 2012 overseeing policy initiative
16 development and implementation particularly as it relates to distributed solar generation
17 or "DSG." Prior to joining Vote Solar, my regulatory and policy experience included
18 five years in the Government Affairs group at Sun Edison, one of the world's largest
19 solar developers at the time, as a manager, director and eventually vice president; twelve
20 years with Western Resource Advocates as Senior Policy Advisor; and twelve years in
21 the Public Service Company of Colorado (PSCo or the Company) rate division as
22 Director of Revenue Requirements. Prior to that, I spent six years with the Federal

1 Energy Regulatory Commission (FERC) as a technical witness (engineer). All told, I
2 have nearly 40 years experience in utility regulatory matters.

3 I have a Masters Degree in Environmental Policy and Management from the University
4 of Denver in Denver, Colorado, and a Bachelor of Science Degree in Electrical
5 Engineering from Rensselaer Polytechnic Institute in Troy, New York. My CV is
6 attached at the end of this testimony as Appendix A.

7 **Q: Have you testified previously before this Commission?**

8 A: No, I have not. Prior to this testimony however, I submitted testimony along with CEP's
9 Reply Comments on May 5, 2017. I have testified in proceedings before the Arizona
10 Corporation Commission, the Public Utilities Commission of Colorado, the Idaho Public
11 Utilities Commission, the Nevada Public Utilities Commission, the New Mexico Public
12 Regulation Commission, the Wisconsin Public Service Commission, the Wyoming
13 Public Service Commission, and the Federal Energy Regulatory Commission.

14
15 **PURPOSE AND SUMMARY OF TESTIMONY**

16 **Q: What is the purpose of your testimony?**

17 A: The purpose of my testimony is to address the non-unanimous settlement (NUS)
18 submitted to the Commission by a subset of the parties to this investigatory proceeding. I
19 will address elements of the settlement that segregate residential customers with rooftop
20 solar resources into a new customer class, and impose a new rate structure and design that
21 amounts to a large new fixed charge for rooftop solar customers.

22 **Q: Please summarize your testimony.**

1 A: My testimony addresses the provisions of the non-unanimous settlement agreement
2 (NUS) submitted by the settling parties in this proceeding. CEP is not supporting the
3 NUS for several reasons. First, the entire basis for NUS, contained in paragraph 9 is that
4 DG customers have different usage characteristics. None of the settling parties however
5 has presented any Kansas-specific data that demonstrate that this is indeed a fact.
6 Second, it contains provisions that are based upon the assumed difference in usage
7 characteristics that must also be rejected. Other provisions are either unnecessary or
8 undermine Commission authority. Finally, there is a clear need for further study and
9 analysis, and that should occur in this investigatory docket. Thus CEP recommends this
10 docket remain open for such analysis, and that the NUS be rejected at this time.

12 **DISTRIBUTED GENERATION IN KANSAS**

13 **Q. What is distributed generation?**

14 A. Distributed generation, as used in this proceeding generally, and in my testimony
15 specifically, is a subset of distributed energy resources that typically generate electricity
16 on the site of a retail customer using a renewable resource like solar or wind energy.
17 Such systems are typically sized such that the annual generation would be no more than
18 the annual consumption of the host customer. However, given the generation profiles of
19 the resources and the load profiles of the host customers, there are typically times when
20 each of the following two situations can occur:

- 21 • Consumption equals or exceeds generation: any and all generation is consumed
22 on-site; and

- Generation exceeds consumption: some generation is consumed on-site, and the remainder is exported off-site;

Q. What happens to the electricity generated that is exported off-site?

A. Electricity that leaves one home for example follows the path of least resistance to the nearest load and is consumed there. This happens instantaneously and there is no incremental cost to the utility. Indeed, the utility has no control over the flow and consumption of exported energy. For example if a customer with a 5kW system is only using 4 kW, the other kilowatt leaves the home and serves the non-solar neighbor, never leaving the secondary distribution system. The utility only sees a 5 kW reduction at that point in time, but does not know the mix of loads and sources of energy. Moreover, the extra kilowatt reduces the loading on the distribution system at a time of higher utility costs in the middle of the day, a benefit for all.

The neighboring customer sees no change, and does not know whether the electricity he is consuming came from the utility or his solar neighbor. Either way, he pays full retail prices for the electricity to the utility. As a result the utility recovers full retail revenue for solar electricity that is exported to a neighboring home, even if it did not generate, transmit, and distribute it.

Q. How many residential DG systems are there in Kansas?

A. My understanding is that there are approximately 700 residential systems in total. Most of these systems are connected to Westar customers. This is a very small proportion of on-site generation and ranks among the bottom 9 states in the nation.

CEP'S CONCERNS WITH THE NON-UNANIMOUS SETTLEMENT AGREEMENT

1 **Q. Please describe the Non-unanimous Settlement Agreement (NUS).**

2 A. In a nutshell, the NUS is an agreement among a subset of participants in this
3 investigatory proceeding that addresses the rate and cost relationships of DG customers
4 with the utility and other customers. The settling parties have agreed to seek from the
5 Commission a set of findings delineated in paragraphs 9 through 17. Interestingly, most
6 of the requests for findings restate existing authority of the utilities. The notable
7 exception is the request for a finding of “potentially significantly different usage
8 characteristics” of DG customers. Beyond the request for that finding, the primary
9 function of the NUS appears to be to end the instant docket, and assure that no further
10 study or analyses occur as part of this investigative proceeding.

11 **A. NUS Paragraphs 9-11**

12 **Q. Please explain the finding sought by the settling parties related to usage**
13 **characteristics.**

14 A. The NUS notes in the first substantive term (paragraph 9):

15 DG customers should be uniquely identified within the ratemaking process because of the
16 potentially significant different usage characteristics. Utilities may create a separate
17 residential class or sub-class for DG customers with their own rate design, which
18 appropriately recovers the fixed costs of providing service to residential private DG
19 customers, or a utility may continue to serve residential private DG customers within an
20 existing residential rate class if the utility determines there are too few DG customers to
21 justify a separate residential private DG class or sub-class or determines that other
22 justification exists to retain those customers in the existing rate class. A separate rate
23 class for DG customers is not meant to punish those customers, rather such a rate class
24 would serve to provide clarity for both utilities and customers.

25 This paragraph suggests not that there are significant different usage characteristics, but
26 that the characteristics are *potentially* different. In other words, Paragraph 9 tacitly
27 acknowledges that there may not be any differences today, yet asks the Commission for a
28 finding that utilities may create a separate rate class.

1 Also, CEP finds it odd that this requested finding indicates that the Settling Parties don't
2 mean to punish DG customers, but provide clarity. Whether punishment is intended or
3 not, it could well be the result for these customers that have invested in a new behind the
4 meter technology, particularly if Westar's desire for a three part rate including a demand
5 charge is imposed. I don't believe any clarity is provided with a separate rate class, unless
6 utilities intend to subdivide the entire residential class into subgroups based on behind the
7 meter technologies and resultant usage characteristics.

8 **Q. Did Westar or any of the settling parties provide data or analytical support for the**
9 **contention that the usage characteristics of residential DG customers are**
10 **significantly different from the general body of residential customers?**

11 A. No. Neither Westar nor the settling parties provided any data or analytical support
12 demonstrating any significant difference in characteristics of the Kansas DG customers.
13 A data-driven demonstration of such significant differences must be a pre-requisite to
14 making radical changes to rate structures that will dramatically increase the costs to all or
15 a subset of residential customers.

16 **Q. Do you believe there are any significant differences in usage characteristics today?**

17 A. No. Through the investigative discussions in this proceeding I obtained residential load
18 research data and raw DG customer data from Westar. I compared the usage
19 characteristics of the data for the DG customers of Westar¹ with the residential customer
20 load research data and found them to be very similar.

21 **Q. Do you believe there is the potential for significantly different usage characteristics**
22 **in the future?**

¹ DG customers installing distributed generation on or after October 28, 2015.

1 A. There is always a potential for different usage characteristics of a subgroup of customers
2 in the future, but based upon similar proceedings in which I've been involved elsewhere,
3 the chances of such differences are slim even at penetration rate 25 times that of Kansas.
4 Nevertheless, significantly different usage characteristics must be proven with data and
5 analysis either currently or in the future before major changes in rate design can be
6 approved.

7 **Q. Are there other references that describe differences among subgroups of customers?**

8 A. Yes. In November of 2016 the National Association of Regulatory Utility Commissioners
9 (NARUC) released a Distributed Energy Resources (DER) Manual² addressing the
10 treatment of DER including DG resources. The manual discusses a number of the NUS
11 elements, noting that data and analysis is necessary to inform regulators, and that similar
12 situations should be considered. For example, in discussing differing customer
13 characteristics and the need for separate customer classes, the manual notes the
14 following:³

15 One must also consider whether these customers should also be further
16 subdivided into technology-specific classes or subclasses. It is instructive to
17 consider what happens when a customer's usage changes for reasons other than
18 DER. If a customer replaces an appliance or lightbulbs, or the number of people
19 living in a home is reduced, other things being equal, there is less usage to spread
20 costs over. It must also be noted that individual customers are not generally
21 responsible for utility upgrades to meet specific customer actions. For example, if
22 a customer installs an extra television or refrigerator or purchases an EV that
23 requires an upgrade to the local transformer, the costs associated with that new
24 infrastructure investment are recovered from the entirety of the customer class,
25 and not from the specific customer responsible for the upgrade. To recover
26 authorized costs, the rate increases due to reduction in usage (in a non-decoupled
27 jurisdiction) are shifted to those customers that did not reduce their consumption.
28 Generally, these customers would not be separated into another class, as the

² <http://pubs.naruc.org/pub/19FDF48B-AA57-5160-DBA1-BE2E9C2F7EA0>

³ Id. p. 77-78

1 service supplied to each set of customers is essentially the same. Air-conditioning,
2 electric heat, or undergrounding of distribution wires, however, are sometimes
3 considered to be a different type of service, as the impact on costs is significantly
4 different for customers that do not have these items.

5 **Q. Please describe the data you used in this proceeding.**

6 A. As noted above, the non-DG customer information for the residential customers was
7 Westar's load research data provided in response to a CEP discovery request. The load
8 research data⁴ was already in a usable form, so I calculated maximum demand, annual
9 consumption, and load factors for each customer.
10 The DG customer data was derived from raw fifteen minute metered data provided by
11 Westar. The raw data was first screened for those customers installing DG on or after
12 October 28, 2015, resulting in a population of 129 customers. The NUS grandfathers DG
13 customers that installed their DG systems prior to that date, thus they are not included in
14 the analysis. The group of 129 was further narrowed down to exclude those customers
15 without load data, narrowing the field to 73 customers. Of these 73, 16 systems were
16 interconnected sufficiently early to obtain one full year of data, however only 9 of those
17 16 have fewer than five missing hours of data. I then developed annual consumption,
18 maximum demands and load factors for these 9 customers.

19 **Q. How did you use these data sets?**

20 A. I first compared the range of usage between the residential non-DG (load research)
21 customers and the 9 DG customers who are part of the non-grandfathered group
22 (installation on or after October 28, 2015) for which complete data exists. Table 1 shows
23 this comparison:

⁴ The load research data is for calendar year 2013.

| Consumption | Residential Load Research | Non- Grandfathered DG |
|--------------------|--|--------------------------------------|
| Population | 209 | 9 |
| Range Low | 841 | 4,244 |
| Range High | 90,984 | 40,325 |
| Mean | 15,240 | 14,063 |

Table 1. Comparison of Residential DG and non-DG Consumption

This comparison shows that the consumption characteristics for the very limited group of DG customers for which a full year of data exists is nestled well within the population of non-DG residential customers, demonstrating that these groups of customers are not very different.

Because costs are assigned to customer classes on the basis of both demand and energy, the load factors of customers are a good basis for understanding the anticipated costs to serve various groups and subgroups of customers. The higher the load factor, the lower the unit cost to serve the customer or customer group. Table 2 shows a similar comparison as the usage table above, but comparing load factors.

| Load Factors | Residential Load Research | Non- Grandfathered DG |
|-----------------------|--|--------------------------------------|
| Range Low | 3% | 2% |
| Range High | 39% | 33% |
| Mean | 16% | 15% |
| Std. Deviation | 0.06 | 0.09 |

Table 2. Comparison of Residential DG and non-DG Load Factors

As above, this comparison shows that the load factor characteristics for the DG customers also fall well within the population of non-DG residential customers. While this not only demonstrates the similarity between these groups of customers, it also indicates that the costs to serve these groups would be similar.

However, the relative paucity of DG data is somewhat concerning, so in order to verify the conclusion of similarity based on consumption and load factors, I also reviewed data for grandfathered (pre-10/28/15 installed) DG customers. Following the same constructs as above, i.e. excluding customers with no data, and significant missing data, I was able to narrow down a data set for grandfathered DG customers with a full year of data to 56 for 2015 and 88 for 2016. Tables 3 and 4 below present the 2015 and 2016 evaluation results for 2015 and 2016 in the same fashion as Tables 1 and 2 above, respectively.

| Usage | Residential Load Research | Non- Grandfathered DG | 2015 Grandfathered DG | 2016 Grandfathered DG |
|------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Population | 209 | 9 | 56 | 88 |
| Range Low | 841 | 4,244 | 2,256 | 2,434 |
| Range High | 90,984 | 40,325 | 26,176 | 28,556 |
| Mean | 15,240 | 14,063 | 9,967 | 10,410 |

Table 3. Comparison of Residential DG and non-DG Consumption, including Grandfathered DG in 2015 and 2016

| Load Factors | Residential Load Research | Non- Grandfathered DG | 2015 Grandfathered DG | 2016 Grandfathered DG |
|----------------|------------------------------|-----------------------------|-----------------------------|-----------------------------|
| Range Low | 3% | 2% | 5% | 4% |
| Range High | 39% | 33% | 25% | 26% |
| Mean | 16% | 15% | 13% | 13% |
| Std. Deviation | 0.06 | 0.09 | 0.04 | 0.05 |

Table 4. Comparison of Residential DG and non-DG Load Factors, including Grandfathered DG in 2015 and 2016

As can be seen from these tables, the corresponding values for 2015 and 2016 fall also well within the bounds of the class as a whole, further supporting the conclusion that residential DG customers usage characteristics are similar to the class as a whole.

Q. Are these data sets comparable since they are from different years?

A. Yes. I believe they are comparable. While there could be weather or other impacts from year to year that might affect customer consumption patterns, I reviewed use per

customer data from 2013 through 2016 and found less than 4% variation. Table 5 shows this comparison.

| Form 1 Data | 2013 | 2014 | 2015 | 2016 |
|-------------------------|-------------|-------------|-------------|-------------|
| Sales (MWh) | 3,409,863 | 3,434,301 | 3,309,041 | 3,359,568 |
| Avg Customers | 323,581 | 324,880 | 326,340 | 327,418 |
| Use per customer | 10,538 | 10,571 | 10,140 | 10,261 |
| % of 2013 UPC | | 100.3% | 96.2% | 97.4% |

Table 5. Comparison of Residential Use per Customer, 2013-2016

Q. Could the increase in DG customers, and associated reduction in consumption, explain the nearly 4% drop in use per customer between 2013 and 2015?

A. No. To evaluate this possibility, I made the extreme assumption that the host of every DG system installed prior to December 31, 2015 had zero consumption. I added back to the 2015 sales figures the average sales per customer from 2013 for every DG system (309 systems). This adjustment resulted in a change in the use per customer in 2015 of 1/10th of 1 percent, meaning that the reduced use per customer from 2013 to 2015 is due to other factors. The calculation is shown in Table 6 below.

| | 2013 | 2015 Actual | Adjustment | 2015 Adj |
|-------------------------|-------------|--------------------|-------------------|-----------------|
| Sales (MWh) | 3,409,863 | 3,309,041 | 3,256 | 3,312,297 |
| Customers | 323,581 | 326,340 | 309 | 326,340 |
| Use per customer | 10,538 | 10,140 | | 10,150 |
| % of 2013 UPC | | 96.2% | | 96.3% |

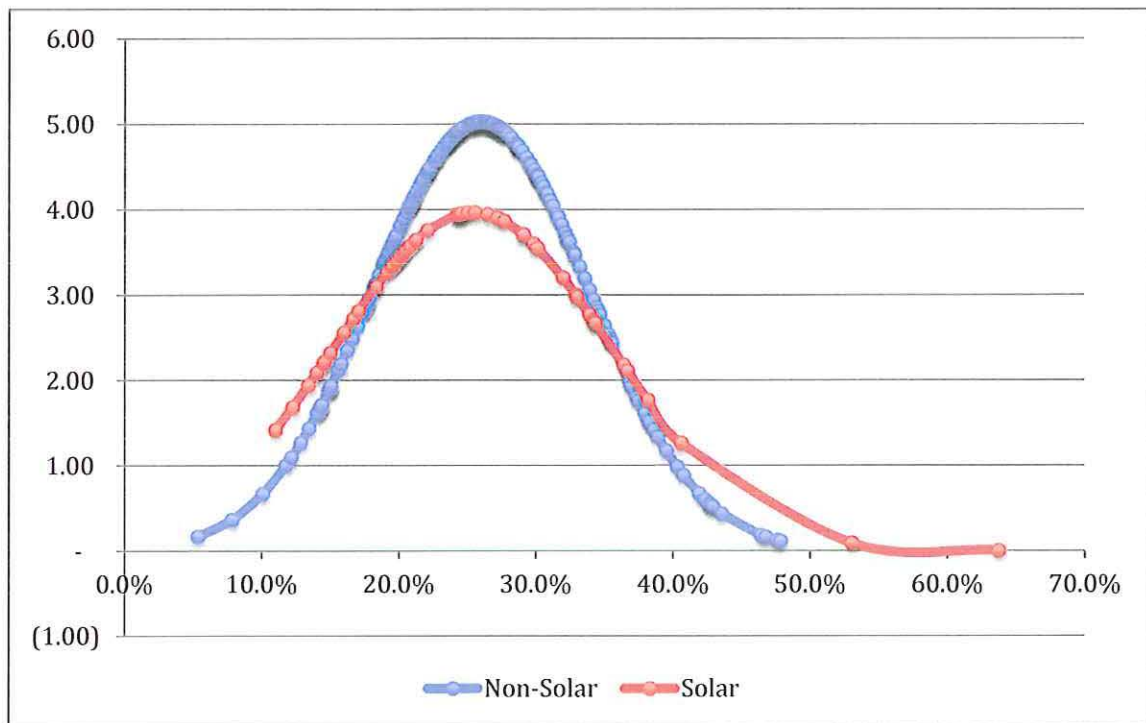
Table 6. Comparison of Residential Use per Customer, 2013 & 2015

The takeaway message from this analysis is that use per customer has indeed declined over the past few years, but very little of it, if any, can be attributed to DG resources.

The reductions are likely to be related to improved customer efficiency, effects of weather, and possibly economic factors, but not DG.

Q. Have other states reviewed similar information?

1 A. Yes. In a current proceeding in Utah, Rocky Mountain Power provided a comparison of
2 load factors for residential customers from their load research and from a sample of DG
3 customers in response to discovery. Chart 1 shows the relationship of load factors, a key
4 driver of cost allocation, between the two groups.



5
6 **Chart 1. Rocky Mountain Power Comparison of Load Factors:**
7 **Solar vs. Non-solar Customers**

8 This chart also demonstrates little difference in load factors between those customers
9 with DG (rooftop solar in this UT example) and the general body of residential
10 customers.

11 **Q. Does the NARUC DER Manual support a data-driven analysis of the differences**
12 **among subgroups of customers?**

13 A. Yes. The Manual discusses the allocation of costs and the relationship between usage
14 characteristics and the incurrence of costs, noting in particular the need for examination
15 of particular load profiles of various customers:

1 Separating DER customers out allays concerns about other customers covering
2 costs to the extent that those costs are associated with determinants used in
3 allocation. If this is the case, rate structures do not necessarily have to change, as
4 the associated costs are allocated on the appropriate basis. The remaining
5 concerns would then be potential intra-class subsidization between technologies
6 with different characteristics and a lack of connection between the causation of
7 costs and their collection. In the end, regulators must examine the particular load
8 profiles associated with various customers, including DER customers and subsets
9 thereof, and how those profiles correspond to costs, and decide whether those
10 differences constitute a substantial enough difference in the service provided to
11 justify their separation.⁵

12 Kansas-specific differences in load profiles between DG customers and non-DG
13 customers were not examined by the settling parties and not reflected as the basis for
14 segregating DG customers into their own class.

15 **Q. What do you conclude about the usage characteristics of DG customers?**

16 A. Based on a review of the data available for Westar's residential DG customers,⁶ I
17 conclude that there is no significant difference in the usage characteristics of DG
18 customers as compared to the residential customers as a whole. There has been no other
19 Kansas-data based analysis of the DG customers in this proceeding, to my knowledge.
20 Neither have any other subgroups of customers been evaluated that might have different
21 usage characteristics due to other behind the meter technologies.
22 Thus there is no basis for treating DG customers differently, and no basis for NUS
23 paragraph 10 concluding "the current two-part rate design is problematic" for DG
24 customers. There has been no Kansas-specific evidence presented that demonstrates
25 current rates are a problem, and thus no reason to treat sub-divisions of the residential

⁵ NARUC DER Manual, 2016, p. 78.

⁶ Westar is the utility with the greatest amount of DG customers that would be impacted by the NUS.

1 class any differently from the class as a whole. All residential customers should be
2 treated the same until a significant difference is proven with utility-specific data.
3 Second, because there is no significant difference, there is no urgent need to address the
4 DG issue in such an abbreviated time frame, especially when the consequences of major
5 rate structure changes can be so dire. The Commission should deny the requests for the
6 findings in Paragraphs 9 and 10, and move forward cautiously.

7 **Q. Do you have comments on Paragraph 11?**

8 A. Yes. NUS paragraph 11 lays out a variety of options the settling utilities can pursue in
9 future formal rate proceedings, no different than those available to the utilities without
10 the NUS. Indeed, we could look to the DER Manual for a more comprehensive list, if that
11 is the goal, of rate design options.

12 Given the lack of evidence to support a separate rate class for Westar's 129 of some
13 750,000 residential customers, and the related lack of support for a finding that current
14 rates are problematic (but apparently only for those customers that reduce consumption
15 using a specific technology or two), paragraph 11 also fails for lack of support.
16 Specifically the three-part rate described in paragraph 11.a. has not been shown to be
17 "appropriate" to recover costs from DG customers. Demand charges are not tied to cost-
18 causation and do not provide an actionable price signal to customers. I addressed demand
19 rates in more detail in previous testimony submitted as Reply Comments on May 5.
20 The Commission should definitively reject any finding supporting the "appropriateness"
21 of demand charges for any class or subclass of residential customers without a proper
22 evidentiary hearing based upon Kansas-specific data and analysis. The Commission
23 should not make a finding in the NUS that undermines its authority in the future,

1 particularly where there is scant evidence to support the requested finding. Indeed, no
2 regulatory Commission in the country has approved mandatory demand rates for either a
3 class or subclass of residential customers to date.

4 **B. NUS Paragraphs 12-18**

5 **Q. Please discuss the finding requested in NUS Paragraph 12.**

6 A. Paragraph 12 requires a customer education program be implemented whenever new
7 residential DG rate structures are ordered. CEP has no objection to this finding.

8 **Q. Please discuss the finding requested in NUS Paragraph 13.**

9 A. Paragraph 13 requires rates for residential DG customers be cost-based. Moreover, CEP
10 supports cost-based rates, but this is generally done for a large diverse group of
11 residential customers, not for very small subgroups of customers. It is common
12 knowledge that residential rates are never intended to collect the actual cost of serving
13 each individual customer from those individual customers. For example, customers that
14 consume less than the class average will typically contribute less than average towards
15 demand-related costs, and vice-versa. Beginning a process of sub-dividing the large
16 residential class into subgroups will in the end only benefit larger, higher load factor
17 customers. Again, the need for separate rate treatment of residential DG customers has
18 not been demonstrated and this requested finding is superfluous.

19 The second part of this finding request is troubling however as it seeks to limit further
20 study in this docket and the rights of parties to bring studies and analyses to the
21 Commission. While I'm not an attorney, this finding strikes me as limiting the due
22 process rights of some parties. This finding request should be denied.

23 **Q. Please discuss the finding requested in NUS Paragraph 14.**

A. Paragraph 14 addresses the possibility that the Commission may order a value of resource study (i.e. cost benefit analysis). It imposes restrictions on the conduct and content of the study to assure that certain quantifiable benefits would not be fully considered. For example, the analysis is limited to a single year snapshot of the benefits, rather than a longer-term perspective as is used for these value analyses elsewhere (and resource planning generally). This is improper and undermines the Commission's authority to consider all aspects of DG resources, potentially leading to an inefficient result.

There have been many value of solar studies performed around the country. Two good resources are a review of cost-benefit studies published in 2013 by the Rocky Mountain Institute,⁷ and the report published by the Brookings Institute noted in my earlier response testimony.⁸ The former review in particular, steps through the many benefits that have been identified and proposes means for their determination. In this investigatory process, the Staff included a list of benefits in its initial comments in this docket. Staff provides some very brief comments about a number of these benefits, and these are a good start to compiling a comprehensive list of values to be evaluated.

| The Benefits of Distributed Generation | |
|---|--------------------------------|
| Market Based Avoided Costs | Non-Market Based Avoided Costs |
| Avoided Energy Costs | Avoided Environmental Costs |
| Avoided Generation Capacity Costs | Avoided Renewable Costs |
| Avoided Ancillary & Capacity Reserve Services | Price Mitigation Benefits |
| Avoided Transmission Costs | Economic Development |
| Avoided Distribution Costs | Health Benefits |
| | Grid Security |

⁷ https://d231jw5ce53gcq.cloudfront.net/wp-content/uploads/2017/04/eLab_DERBenefitCostDeck_Report_2013-1.pdf

⁸ Muro, M and Saha, S, "Rooftop solar: Net metering is a net benefit," Brookings Institute, May, 2016.

1 In addition, the NARUC DER Manual addresses the benefits and costs of DER in the
2 Value of Resource section.⁹ Its list is similar to the Staff's list:

- 3 1. Avoided energy/fuel
- 4 2. Energy losses/line losses
- 5 3. Avoided capacity
- 6 4. Ancillary services (may include voltage or reactive power support)
- 7 5. Transmission and distribution capacity (and lifespan changes)
- 8 6. Avoided criteria pollutants
- 9 7. Avoided CO2 emission cost
- 10 8. Fuel hedging
- 11 9. Utility integration and interconnection costs
- 12 10. Utility administrations
- 13 11. Other environmental factors
- 14 12. Reliability factors and costs

15 The restrictions in the NUS are in conflict with best practices in other states as well as
16 with studies that have been performed by independent entities, generally state-based
17 agencies. The NUS provides no rationale for such significant restrictions. This request
18 should be rejected and a full value of resource study should be performed prior to any
19 review of rate design options and should thus inform any changes in rate structure,
20 particularly those that single out the very few DG customers in Kansas.

21 **Q. Please discuss the finding requested in NUS Paragraph 15.**

22 A. Paragraph 15 seeks a finding that DG rate design policy is best determined in this docket.
23 With this much CEP agrees, however as previously discussed there has been insufficient
24 data available in this proceeding to determine the necessity of making any changes to
25 present DG rate design policy, i.e. no separate class and no different rate design. The
26 requested finding goes on to say that determination of DG rate design policy in this
27 docket provides certainty to all parties for the benefit of the orderly development of the
28 DG market in Kansas. However this docket has not determined "present DG rate design

⁹ NARUC DER Manual, 2016, p. 133-134.

1 policy” but only seeks a finding that DG customers are *significantly different* and should
2 be in a separate class. As a result, there is more uncertainty than ever.

3 Finally, Paragraph 15 suggests that electric utilities without current DG tariffs have the
4 option to propose such tariffs “consistent with the principles established in this general
5 investigation.” The referenced principles are not supported by evidence and in some
6 cases may undermine Commission authority.

7 CEP believes this docket should remain open, and the actual data available be reviewed
8 and analyzed, so that legitimate findings can be made.

9 **Q. Please discuss the finding requested in NUS Paragraph 16.**

10 A. Paragraph 16 essentially requires grandfathering of all existing DG customers on current
11 rates (with the exception of Westar) until on or after the effective date of a new rate
12 design, and to be allowed to remain on those rates until January 1, 2030. CEP supports
13 the concept of grandfathering but would prefer a specific period of time, e.g. 20 years
14 from date of install, as the grandfathering period. If a utility doesn’t change their rate
15 design until 2025 for example, DG customers would only remain on the existing rate for
16 five years, which is unlikely to be sufficient time to recover the costs of their investment.
17 The exception in the NUS is Westar. Because a new rate class was established in the last
18 rate case, the NUS allows Westar to establish a cutoff date of October 28, 2015. The
19 NUS states “customers who added DG on or after October 28, 2015, will be subject to the
20 rate design change that occurs in future rate case dockets based on the policy established
21 in this docket.”

22 Thus, under the NUS all utilities will be allowed to implement a different rate design as a
23 result of the next rate case. The applicability of the new rate design is for prospective

1 installations only, with the exception of Westar for whom applicability begins with
2 customer DG installations on or after October 28, 2015. Therefore the only current DG
3 customers affected by the NUS are the 129 post-October 27, 2015 customers of Westar
4 and any others that may have installed DG since November 18 of 2016. It is clear
5 however that the NUS does not prescribe any new rate design.

6 **Q. Please discuss the finding requested in NUS Paragraph 17.**

7 A. Paragraph 17 effectively makes the applicability of the NUS to cooperatives advisory and
8 not mandatory. I believe this reflects current law and regulatory practice.

9 **Q. Do you have any other comments?**

10 A. Yes. The NUS uses the term “private” generation throughout the document. This term is
11 non-descriptive and confuses the meaning and ownership of DG resources. Indeed, it is a
12 term the Edison Electric Institute (EEI) has been promoting as part of its new lexicon
13 since 2014, and is a simple substitute for the more descriptive “rooftop.” I urge the
14 Commission to reject the use of this term throughout the NUS as it reduces rather than
15 enhances clarity. It can be simply stricken, or be replaced with *rooftop*, without any
16 impact on the underlying language of the document.

18 **CEP’S SUMMARY OF CONCERNS AND RECOMMENDATIONS**

19 **Q. Please summarize your recommendations re the NUS.**

20 A. The Settling Parties ask the commission to approve certain findings as drafted in the NUS
21 that are unsupported by facts, may undermine Commission authority or limit the rights of
22 other parties, or are simply unnecessary. CEP summarizes its concerns and
23 recommendations as follows:

- 1 (1) The significant difference in usage characteristics described in Paragraph 9 (and the
2 related findings in Paragraphs 10 and 11) has not been demonstrated and must be
3 rejected;
- 4 (2) The customer education requirement in paragraph 12 is good policy any time any
5 customer class's rate design changes, but can be established without this NUS;
- 6 (3) Paragraph 13 establishes limits to the due process rights of stakeholders and should
7 be denied;
- 8 (4) Paragraphs 14 undermines Commission authority and must also be rejected;
- 9 (5) Paragraph 15 seeks to effectively close this docket through the NUS, which is
10 improper since there has been no evidentiary support for the basic findings sought by
11 the settling parties. This investigatory docket should remain open to continue
12 evaluating the concerns of utilities, the Commission, other customers and
13 stakeholders through data-driven analysis and additional study if necessary;
- 14 (6) Paragraph 16 essentially established grandfathering for all current DG customers until
15 a rate design change is made, except for Westar customers whose grandfathering
16 period ended October 27, 2015. CEP opposes the hard date of January 1, 2030 and
17 propose a 20 year grandfathering period from the time a rate design change is made;
18 and
- 19 (7) Paragraph 17 reflects current law and policy and is not necessary to include.

20 **Q. What are your recommendations to this Commission?**

21 A. Based on the foregoing, I recommend the Commission reject the Non-unanimous
22 Settlement, keep this investigatory docket open, and study and analyze the actual data
23 available, which may include further studies. Only then can legitimate findings be made.

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

2 **A.** Yes, it does.

Professional Employment

January 2012 to Present: Program Director, DG Regulatory Policy, Vote Solar. Manage technical and policy research for Vote Solar, and engage in state, regional, and national campaigns related to distributed solar generation. Expert witness in many formal state regulatory proceedings addressing issues related to distributed solar resources.

March-April 2012: Solar Energy Industries Association - Under a short term contract with SEIA to participate in an Xcel Energy distributed solar generation Technical Review Committee and to manage consulting support also under contract to SEIA.

January 2007 to January 2012: SunEdison, LLC - Various solar policy related positions beginning with Director of Interior West Policy to Managing Director of Western Policy (July 2007), to Vice President of North American Government Affairs (July 2009) to Global Policy Advisor (July 2011). In each of these roles, directed and managed policy research, development and implementation for the company for the various geographies identified at the regulatory and legislative levels.

June 2011 to December 2011: Chair of the Solar Alliance Board.

Dec 1994 to Jan 2007: Senior Energy Policy Advisor, Western Resource Advocates (formerly the Land and Water Fund of the Rockies), Boulder, Colorado. Develop innovative clean energy and air quality public policies within the economic and cultural framework unique to this region. Lead environmental advocate in development of Arizona Environmental Portfolio Standard, Nevada Renewable Portfolio Standard implementation rules, Colorado Renewable Energy Standard legislative proposals, and the 2003 Utah Renewable Energy Standard legislative proposal. Principal author of Colorado’s Amendment 37 and lead advocate for related PUC rule development.

Jan 1983 to Dec 1994: Director of Revenue Requirements, Public Service Company of Colorado, Denver, Colorado. Primary responsibility for development of formal rate-related filings for this investor-owned utility for electric, gas, and thermal energy service in two states and the FERC. Developed and responded to a variety of proposed mechanisms to encourage the use of energy efficiency technologies, including innovative rate design approaches.

Dec 1976 to Dec 1982: Technical Witness (Engineer), Federal Energy Regulatory Commission, Washington, D.C. Testified as expert witness on behalf of the FERC in wholesale rate filings on technical, accounting, and economic issues related to rate design, pricing, and other issues.

Education

Masters, Environmental Policy and Management, University of Denver, Denver, Colorado

Bachelor of Science, Electrical Engineering, Rensselaer Polytechnic Institute, Troy, New York

Summary of Formal Testimonies and Rulemaking Participation

Representing Vote Solar

- PacifiCorp/RMP Docket No. 14-035-114: Costs and Benefits of Net Energy Metering
- Public Service Company of CO Docket 16A-0546E: Decoupling
- Sierra-Pacific Power Company Docket 16-06006, et al: GRC Phase 2
- Sierra-Pacific Power Company Docket 16-07001, et al: IRP
- Public Service Company of CO Docket 16AL-0048E, et al: Three docket settlement
- Public Service Company of CO Docket 16AL-0048E: GRC Phase2
- Public Service Company of CO Docket 16A-0055E: Solar*Connect 2 Subscription Proposal
- Nevada Energy Docket No. 15-07041, et al.: Cost of Service Study and Net Metering Tariffs
- El Paso Electric Company Case No. 15-00127-UT: General Rate Case
- Public Service Company of CO Docket 13AL-0958E: Qualifying Facilities Rates/Remand
- Public Service Company of CO Docket 14A-0302E: Solar*Connect Subscription Proposal
- We Energies (WI) Docket No. 05-UR-107, General Rate Case
- Rocky Mountain Power (UT) Docket No. 13-035-184: General Rate Case
- Public Service Company of CO Docket 13AL-0958E: Qualifying Facilities (QF) Rates
- Public Service Company of CO Docket 13A-0836E: 2014 RES Compliance Plan
- Public Service Company of CO Docket 13AL-0695E: Line Extension Policy
- Idaho Power Company, Case No. IPC-E-12-27, Net Metering Service
- Arizona Public Service, et al., Docket No. E-01345A-10-0394, et al., RES Compliance
- New Mexico PRC Case No. 11-00218-UT: Renewable Portfolio Standard Reasonable Cost Threshold
- Tucson Electric Power Docket No. E-01933A-12-0291: General Rate Case

Representing Sunedison LLC

- Public Service Co of New Mexico Case No. 10-00037-UT 2010 Procurement Plan
- Public Service Company of CO Docket 09A-772E: 2010 Compliance Plan
- Public Service Company of CO Docket 09AL-299E: 2009 Rate Case Phase 2
- Public Service Company of CO Docket 08A-532E: 2009 Compliance Plan
- Colorado PUC Rulemaking Docket 08R-424E: Renewable Energy Standard Rules
- New Mexico PRC Case No. 08-00084-UT: Reasonable Cost Threshold Rulemaking
- Nevada PUC Docket No. 07-10007: Petition for Declaratory Order re 3rd party ownership
- Public Service Company of CO Docket 07A-447E: 2007 Resource Plan
- Public Service Company of CO Docket 07A-462E: 2008 Compliance Plan
- New Mexico PRC Case No. 07-00157-UT: RPS Rulemaking; diversity standard
- Public Service Company of CO Docket 06A-478E: 2007 Compliance Plan
- Public Service Company of CO Docket 06A-534E: Approval of Alamosa Contract

Representing large commercial customers

- Nevada Power Company Docket No. 02-11037: Electric Tariff Rule related to loss factor associated with metering secondary service at primary level
- Nevada Power Company Docket No. 02-5044: Electric Tariff Rule related to metering

Representing Western Resource Advocates (formerly the Land and Water Fund of the Rockies)

- CO: PSCo Docket 06S-234EG: 2006 Rate Proceeding - Windsoruce issue
- CO: PSCo Docket 05A-112E: Renewable Energy Standard Rulemaking
- CO: PSCo Docket 05A-288E: Electric Quality of Service Monitoring & Reporting Plan: 2007-08
- CO: PSCo Dockets 06S-016E: Renewable Energy Service Adjustment
- CO: PSCo Consolidated Dockets 04A-214E, 215, 216E: Least-cost Resource Plan
- CO: PSCo Docket No. 04S-164E: Windsoruce Program & Net Metering in GRC Phase 2
- CO: PSCo Docket 02S-315EG: 2002 Rate Proceeding - Windsoruce issue
- NV: Nevada Power Company Docket No. 01-7016: Demand-side Management Programs
- UT: PacifiCorp Rate Case Docket No. 01-035-10: Demand-side Mgt Cost Recovery
- CO: PSCo Docket No. 00A-008E: IRP - DSM & Wind Resources
- UT: PacifiCorp Rate Case Docket No. 99-035-10: System Benefit Charge Proposal
- AZ: Arizona Restructuring Rulemaking Docket No. 99-205: Renewable Portfolio Standard
- CO: PSCo Docket No. 98A-511E: Air Quality Improvement Rider
- AZ: Arizona Restructuring Rulemaking Docket No. 94-165: Stranded Cost Proceeding
- NV: Nevada Power Company Docket No. 94-7001 (Refiled): Integrated Resource Plan
- NM: Southwestern Public Service Case No. 2678: Merger Proceeding
- CO: PSCo Docket No. 95A-531EG: Merger Proceeding

Representing Public Service Company of Colorado

- PSCo Rate Revenue Requirements Proceeding Docket No. 93S-001EG
- PSCo Demand-side Management & Decoupling Proceeding Docket No. 91A-480EG
- PSCo Incentive Regulation Investigation Docket No. 93I-199EG
- PSCo Rate Proceeding Docket No. 91S-091EG
- PSCo Fort St. Vrain Supplemental Settlement Agreement Docket No. 91A-281E
- Various PSCo FERC rate proceedings, and subsidiary rate proceedings

Representing the Staff of the Federal Energy Regulatory Commission

- Connecticut Light & Power Company, Docket ER 82-301
- Kentucky Utilities Company, Docket ER 81-341
- Philadelphia Electric Company, Docket ER 80-557, et al.
- Minnesota Power & Light Company, Docket ER 80-5
- Boston Edison Company, Docket ER 79-216, et al.
- Connecticut Light & Power Company, Docket ER 78-517
- South Carolina Electric & Gas Company, Docket ER 78-283
- Minnesota Power & Light Company, Docket ER 78-245
- New England Power Company, Docket ER 78-78
- New England Power Company, Docket ER 77-97

**BEFORE THE KANSAS CORPORATION COMMISSION
OF THE STATE OF KANSAS**

| | | |
|--|---|----------------------------|
| In the Matter of the General Investigation |) | |
| to Examine Issues Surrounding Rate |) | Docket No. 16-GIME-403-GIE |
| Design for Distributed Generation |) | |
| Customers |) | |

VERIFICATION

STATE OF COLORADO

ss:

COUNTY OF BROOMFIELD

Rick Gilliam, of lawful age, being first duly sworn upon oath, deposes and states: That he is a witness for Climate + Energy Project, that he is responsible above and foregoing testimony and that the statements therein contained are true and correct according to his knowledge, information and belief.



Rick Gilliam

Subscribed and sworn to before me this 19th day of June, 2017.

My appointment expires: 03/29/2021



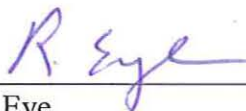
Notary Public

| |
|---|
| MICHAEL SANCHEZ NOTARY PUBLIC STATE OF COLORADO NOTARY ID 20174013705 MY COMMISSION EXPIRES 03/29/2021 |
|---|

VERIFICATION

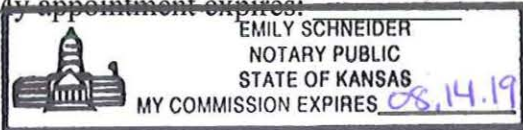

STATE OF KANSAS)
)
COUNTY OF DOUGLAS) ss:

Robert V. Eye, of lawful age, being first duly sworn upon oath, deposes and states: That he is an attorney for Climate + Energy Project, that he has read the above and foregoing and that the statements therein contained are true and correct according to his knowledge, information and belief.



Robert V. Eye

Subscribed and sworn to before me this 20th day of June, 2017.

My appointment expires:  

Notary Public

CERTIFICATE OF SERVICE

Undersigned certifies that on June 20, 2017, the above and foregoing Testimony of Rick Gilliam was emailed to the following:

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