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Missouri Public Service Commission Exhibit No.: Issue(s):

Witness: Sponsoring Party: Type of Exhibit: File No.: Date Testimony Prepared: Pilot Distributed Solar Program William J. Barbieri Union Electric Company Surrebuttal Testimony EA-2016-0208 September 30, 2016

MISSOURI PUBLIC SERVICE COMMISSION

File No. EA-2016-0208

SURREBUTTAL TESTIMONY

OF

WILLIAM J. BARBIERI

ON

BEHALF OF

UNION ELECTRIC COMPANY d/b/a Ameren Missouri

St. Louis, Missouri September 30, 2016

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1	SURREBUTTAL TESTIMONY
2	OF
3	WILLIAM J. BARBIERI
4	FILE NO. EA-2016-0208
5	Q. Please state your name and business address.
6	A. My name is William J. Barbieri. My business address is One Ameren Plaza,
7	1901 Chouteau Avenue, St. Louis, Missouri 63103.
8	Q. Are you the same William J. Barbieri that filed direct testimony in this case?
9	A. Yes, I am.
10	Q. What are the primary issues raised by the Office of Public Counsel (OPC) in
11	its rebuttal testimony opposing the proposed Solar Partnership program?
12	A. There appear to be two main issues and a few related issues raised in OPC's
13	rebuttal testimony. Primarily, OPC states that Ameren Missouri has sufficient generating
14	capacity to meet its customers' needs and that Ameren Missouri possesses ample solar renewable
15	energy credits (RECs) to meets its obligations under the Missouri Renewable Energy Standard
16	(MoRES).
17	OPC's main argument appears to be that until an immediate need arises, nothing else
18	should be done by the utility to advance the development and deployment of renewables within
19	the state. Ameren Missouri believes that approach would be short-sighted and not in the best
20	interest of the state, its residents or the customers of Ameren Missouri, especially since efforts to
21	achieve positive environmental impacts and carbon reductions are sweeping both the nation and
22	the globe.
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Q. Is OPC correct when it states that Ameren Missouri does not need this generation for MoRES compliance or to serve its customers?

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3 It is literally true that Ameren Missouri does not need additional generation Α. 4 capacity or energy production to meet the needs of its native load at this moment, and it is also 5 true that Ameren Missouri can comply with the solar energy portfolio standard in the MoRES 6 until approximately 2024 without building facilities under this pilot. However, the Company will 7 need non-solar RECs, either from owned generation or purchased from the market, in 2018 or 8 2019, and solar RECs from these facilities can be used to meet those non-solar REC needs.

9 Regardless, OPC's criticism misses the mark because this program is not proposed because of an 10 energy or capacity need or because of a MoRES compliance need.

11

Q. Given those facts, what are the reasons that Ameren Missouri is seeking 12 approval of this pilot program at this time?

13 A. Utilities across the nation are experiencing rapid growth and deployment of 14 distributed generation, whether customer owned or leased. Some of the country's largest utilities 15 have been and are increasingly siting solar facilities on their customers' properties, as Ameren 16 Missouri would begin to do through this pilot. Should this trend continue, utility-owned solar 17 generation sited on a customer's premises could become an operational standard. Put another 18 way, such generation may become a key part of utility generation portfolios, alongside wind 19 facilities, utility-scale solar facilities, baseload generation and traditional peaking facilities.

20 Ameren Missouri believes that the time is right to begin to investigate, develop and 21 understand the requirements necessary to achieve appropriate contract terms and conditions, and 22 to learn about siting, operating and maintaining utility-owned electrical generation facilities on 23 property owned and controlled by the customer so that it is well-positioned to utilize such

generation on a broader scale in the future, if the lessons learned indicate that broader utilization
 of such generation makes sense. It is prudent to undertake that learning on a limited scale now,
 before decisions have to be made regarding the addition of more solar generation in the future.

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Q. Has Ameren Missouri been able to learn any of these lessons from the experience of other utilities?

6 A. Yes, although I don't believe Ameren Missouri can obtain sufficient learnings 7 merely by studying other utility programs. That is not to say the Company cannot learn anything 8 from other utilities. In fact, Ameren Missouri has had discussions with a variety of utilities 9 located in regions of the country that are encouraging utility solar generation on customer 10 premises. Ameren Missouri intends to leverage what it can learn from other utilities to assist with 11 its program, such as in developing contract terms and conditions to be used in this pilot. However, in discussions with those same utilities, Ameren Missouri discovered that there are 12 several areas which require direct experience rather than merely mimicking another utility's 13 14 program. Our customers may have a different willingness to partner with the local utility than 15 customers in other states. Then there are the legal aspects of this type of program. The process of 16 developing acceptable terms and conditions that protect the rights of all affected parties is 17 certainly very different than the legal issues involved in siting utility-scale generation. For 18 example, certain contract items must be tailored to meet some individual and specific 19 requirements and needs of a customer, a complication that doesn't exist when siting facilities on 20 utility-owned land. As this is an area in which Ameren Missouri has no experience, we believe it 21 necessary to start the process now versus waiting. We believe it is important to structure 22 agreements that meet both the applicable legal requirements as well as the customers' own stated goals of achieving their social responsibility commitments. 23

l As I previously stated, the pilot is designed to give Ameren Missouri some experience 2 with a different type of generation siting so that when the Company needs to add generation in 3 the future, it has the knowledge and experience to better compare utility-scale generation to 4 smaller, customer-sited generation – whether that be in finding a location to site, how either type 5 impacts our distribution system, or what types of operational and legal issues may be involved 6 with either. As OPC points out, right now the Company's Integrated Resource Plan (IRP) presumes that future solar generation will be utility-scale generation. But perhaps there are 7 8 benefits to both types of generation (utility-scale versus customer-based generation). The point of a pilot is to expand the Company's understanding of customer-based generation and that is 9 10 exactly why Ameren Missouri is seeking approval of this program. 11 Q. How is the Ameren Missouri Solar Partnership program different from what 12 other utilities are currently doing in this area? 13 Α. Ameren Missouri has been approached by several business entities in the region 14 who are offering a unique alternative to the standard lease option that many utilities are using 15 when siting solar generation facilities on a customer's property. Ameren Missouri has been in discussions with entities who are interested in partnering 16 17 with the utility to demonstrate their overall support for sustainability efforts in the regions. These

entities are willing to host a utility-owned solar generation facility on their own property without
receiving a lease payment. This represents a potential savings for Ameren Missouri and,
accordingly, for all of its customers.

Q. How do you respond to the statement by OPC that Ameren Missouri will gain no operational insights from this program and has failed to explain how the program is a "benefit to ratepayers"?

1 Α. There has been considerable debate around the country among solar developers, utilities, public service commissions, and other stakeholders concerning the benefits of 2 3 distributed generation. There are a myriad of considerations from limiting line losses, benefits in locating generation closer to load requirements, and assistance in reducing certain congestion 4 points, to whether there are increased maintenance costs, security needs and costs, etc. In the 5 6 end, it may well be determined that larger central station solar generation is more beneficial than 7 this kind of distributed generation. However, until this kind of generation is actually tested in our 8 service territory and with our customers, this debate is largely an exercise in speculation since it 9 is difficult to know the extent of the practical or economic impacts of such facilities by simply 10 analyzing them on a theoretical basis.

While the discussion topics are pertinent, little has been determined by actual experience in field deployment. Though some regions of the country have seen significant installation of distributed solar generation, it is relatively recent and has not occurred in all regions of the country. In addition, the time frame to collect and analyze the data has been very short. Not enough time has passed in order to provide any conclusive results at this time.

Ameren Missouri believes that by taking this small but critical step to assess increased solar deployment on a scale larger than traditional customer-owned roof-top installations, but on a smaller scale than typical utility-scale generation, Ameren Missouri will be better positioned to make generation decisions in the future. The Company will utilize the information gained in order to determine the best means of spending capital toward solar development in complying with state and federal environmental requirements as well as providing customers with cost effective, carbon-free generation options.

1 Q. OPC states another objection to the program based on a concern that Ameren Missouri did not provide sufficient information concerning the siting and 2 3 construction of the project. How do you respond to that issue?

4 A. At the current time, although several entities have indicated they would be willing 5 to be a host site, no specific location has been determined. The Company has specific criteria 6 developed for the program that would be utilized in determining an appropriate site, which was 7 set forth in the Stipulation and Agreement (now a joint position) filed in this case and supported 8 by the Staff, the Division of Energy, Renew Missouri, and United for Missouri, and which was 9 opposed only by OPC. The purpose of the blanket certificate of convenience and necessity 10 (CCN) request for this program is so that work can move forward with evaluating the various 11 potential sites to determine the best ones with which to proceed. All normal procedural 12 information related to a traditional CCN application will be provided to the Commission once the 13 siting determination(s) have been made. This agreed upon process, which we are asking the Commission to incorporate into the blanket CCN we are requesting, expedites the process by 14 15 providing additional flexibility, but does not circumvent CCN requirements.

16

Q. Would the development of this program provide any other benefits beyond **MoRES** compliance? 17

18 Though the Federal Environmental Protection Agency's (EPA) Clean Power Plan Α. 19 (CPP) is currently stayed and under review by the federal courts, we believe, as do many other 20 utilities across the nation, that some form of the CPP will be advanced and enacted after the 21 upcoming election. What this means is that carbon regulation will likely create a *de facto* federal 22 renewable energy standard, because in order to meet carbon reduction requirements, greater 23 renewable development will almost certainly be necessary. Prudency requires that utilities be

- prepared to address options to meet both the legislative environmental requirements (such as the
 de facto federal renewable energy standard that carbon regulation will create) as well as
 customer desires for less carbon emitting resources.
- 4

Q. Beyond customer support for this program, have other stakeholders voiced their opinions regarding this program's development?

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6 A. Yes. As noted, the MoPSC staff, the Missouri Division of Energy, Renew 7 Missouri, and United for Missouri have all voiced their support for this program. Other parties to 8 this case, apart from OPC, do not oppose the pilot, although for their own business reasons might 9 have designed the program with certain different terms. For example, Wal-Mart, although not opposing the pilot, has indicated that it would like to see a lease payment integrated into this 10 11 program. One of the issues we have agreed to study as part of this pilot is whether a lease 12 payment is needed or otherwise makes sense, but for this limited pilot, we do not believe a lease 13 payment is needed and in fact by not providing one we are better able to gauge its need. In the 14 end, OPC is the only entity engaged in the stakeholder process in this case that opposes the 15 program.

Q. You mentioned Wal-Mart's desire for a lease payment. Can you speak more broadly to the issues raised in that testimony?

A. Certainly. Nothing in Wal-Mart's testimony indicates it is opposing this particular pilot, and indeed Wal-Mart did not object to the above-referenced stipulation. What Wal-Mart describes in its testimony is a different type of program than is being proposed in this case. Perhaps a program more similar to the one Wal-Mart favors will be a program that Ameren Missouri offers in the future, and certainly the Company has held and will continue to hold discussions with Wal-Mart as part of its efforts to shape its future renewable generation and to

meet our customers' expectations and energy needs, but this program is not intended to be the
 program described in Wal-Mart's testimony or even designed for a company like Wal-Mart.

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Q. Brightergy filed testimony as well. Can you respond to that testimony?

A. Brightergy also does not oppose Ameren Missouri's proposed pilot but used its testimony to argue that it already knows the information Ameren Missouri hopes to obtain in this pilot. While Brightergy has experience in Missouri with installing solar panels on individual homes and businesses, Brightergy is not a utility and does not have utility obligations. Brightergy and Ameren Missouri are two very different participants in the renewable market – rendering Brightergy's testimony somewhat irrelevant to the question before the Commission in this case.

10

Q.

Can you provide a summary as to why this program should be advanced?

11 Α. Ameren Missouri is constantly looking for ways to keep electric rates affordable 12 while providing for the needs of customers and their desires regarding environmental 13 stewardship. This program is an effort to test new ways of deploying solar generation and saving 14 some element of cost associated with its development. With the increasing technological 15 advancements and changes in the field of energy, utilities must look beyond the traditional 16 means of supplying energy while becoming more responsive to a customer base that is placing 17 more demands upon it, and seeking non-traditional solutions. Taking action with small pilots 18 such as this will allow utilities to gain valuable experience while limiting the cost to customers. 19 Ameren Missouri has taken the necessary steps to ensure it is acting in a prudent manner with the 20 development of this cost effective program.

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Q. Does this conclude your surrebuttal testimony?

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Yes it does.

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BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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In the Matter of the Application of Union Electric Company d/b/a Ameren Missouri for Permission and Approval and a Certificate of Public Convenience and Necessity Authorizing it to Offer a Pilot Distributed Solar Program and File Associated Tariff.

File No. EA-2016-0208

AFFIDAVIT OF WILLIAM J. BARBIERI

STATE OF MISSOURI)) ss CITY OF ST. LOUIS)

William J. Barbieri, being first duly sworn on his oath, states:

1. My name is William J. Barbieri. I am employed by Union Electric Company,

d/b/a Ameren Missouri as Director, Renewable Strategy, Policy and Generation.

2. Attached hereto and made a part hereof for all purposes is my Surrebuttal Testimony on behalf of Union Electric Company, d/b/a Ameren Missouri, consisting of $\underline{\mathscr{S}}$ pages, all of which have been prepared in written form for introduction into evidence in the above-referenced docket.

3. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded are true and correct.

nan William J. Barbieri

Subscribed and sworn to before me this 30th day of September, 2016.

6. Bes

February 15, 2018 My commission expires: _

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