

Exhibit No.:
Issue(s): CCN
Witness: Tom Byrne
Type of Exhibit: Direct Testimony
Sponsoring Party: Union Electric Company
File No.: EA-2019-0371
Date Testimony Prepared: September 3, 2019

MISSOURI PUBLIC SERVICE COMMISSION

FILE NO. EA-2019-0371

DIRECT TESTIMONY

OF

TOM BYRNE

ON

BEHALF OF

UNION ELECTRIC COMPANY

d/b/a Ameren Missouri

**St. Louis, Missouri
September, 2019**

TABLE OF CONTENTS

I.	INTRODUCTION	1
II.	THE SOLAR + STORAGE PROJECTS.....	2

DIRECT TESTIMONY

OF

TOM BYRNE

FILE NO. EA-2019-0371

I. INTRODUCTION

1 **Q. Please state your name and business address.**

2 A. Tom Byrne, Union Electric Company d/b/a Ameren Missouri ("Ameren
3 Missouri" or "Company"), One Ameren Plaza, 1901 Chouteau Avenue, St. Louis, Missouri
4 63103.

5 **Q. What is your position with Ameren Missouri?**

6 A. I am Senior Director of Regulatory Affairs.

7 **Q. Please describe your educational background and employment**
8 **experience.**

9 A. In 1980, I graduated from the University of Missouri-Columbia with
10 Bachelor of Journalism and Bachelor of Science-Business Administration degrees. In
11 1983, I graduated from the University of Missouri-Columbia law school. From 1983-1988,
12 I was employed as an attorney for the Staff of the Missouri Public Service Commission
13 ("Commission"). In that capacity, I handled rate cases and other regulatory proceedings
14 involving all types of Missouri public utilities. In 1988, I was hired as a regulatory attorney
15 for Mississippi River Transmission Corporation, an interstate gas pipeline company
16 regulated by the Federal Energy Regulatory Commission ("FERC"). In that position, I
17 handled regulatory proceedings at the FERC and participated in some cases at the Missouri

1 Commission. From 1995-2000, I was employed as a regulatory attorney for Laclede Gas
2 Company. In that position, I handled rate cases and other regulatory proceedings before the
3 Commission. In 2000, I was hired as a regulatory attorney by Ameren Services Company,
4 and I originally handled regulatory matters involving local gas distribution companies
5 owned by operating subsidiaries of Ameren Corporation (now Ameren Illinois Company
6 and Ameren Missouri). In 2012, I was promoted to the position of Director and Assistant
7 General Counsel, and I was assigned to handle both gas and electric cases in Missouri. In
8 2014, I was promoted to my current position, Senior Director of Regulatory Affairs.

9 **Q. What is the purpose of your direct testimony in this proceeding?**

10 A. My direct testimony in this proceeding supports Ameren Missouri's
11 application for three Certificates of Convenience and Necessity ("CCNs") for construction
12 of three solar generating assets as part of the Company's Solar + Storage projects. First, I
13 provide an overview of the projects. Then, I describe how the solar generating assets for
14 which CCNs are sought meet applicable *Tartan* factors, and why two of the *Tartan* factors
15 are not applicable.

II. THE SOLAR + STORAGE PROJECTS

16 **Q. What are the Company's Solar + Storage Projects?**

17 A. The Company's Solar + Storage Projects evaluate opportunities to use solar
18 generation and complementary battery storage to increase reliability at certain of the
19 Company's substations. In this case, Ameren Missouri is requesting authority to construct
20 solar generation to be used for this purpose at three of its distribution substations—the
21 Green City substation (located near Green City, Missouri), the Richwoods substation

1 (located near Richwoods, Missouri), and the Utica substation (located near Utica,
2 Missouri).

3 **Q. Why were these three substations chosen for this project?**

4 A. All three of these substations are sited in locations that are remote from
5 Ameren Missouri's other facilities, they are served by a single feed radial subtransmission
6 line, and they have experienced reliability issues over the past several years. Due to their
7 remote locations, it is uneconomic to enhance their reliability by installing back-up
8 subtransmission lines to the facilities. Solar generation facilities working in conjunction
9 with battery storage can provide reliability improvements for these substations at a
10 reasonable cost. Although these are the first substations Ameren Missouri has proposed for
11 the Solar + Storage solution, the Company is continuing to examine its system to determine
12 if a combination of solar generation and battery storage can provide economic reliability
13 enhancement for other substations, and it may seek additional CCNs for solar generating
14 assets at other substations in the future.

15 **Q. What is the capacity of the solar and battery facilities that will be**
16 **installed at each of the three locations that are the subject of this application?**

17 A. The Company proposes to install 10 megawatts ("MW") of solar generating
18 assets and complementary battery storage ranging from 2 MW to 4 MW at each location.
19 Specific details regarding each Solar + Storage project are provided in Ameren Missouri
20 witness Kevin Anders' direct testimony.

21 **Q. How will the solar and battery facilities operate?**

22 A. If there is an outage due to a problem with the subtransmission line serving
23 the substation, or facilities upstream of the subtransmission line, the solar generating

1 facilities can provide back-up power when they are operating during the day, and the
2 battery storage facilities can provide back-up power when the solar facilities are not
3 operating. The facilities will be capable of providing back-up power for up to 3½ -5 hours
4 during peak periods, and up to 10 hours in non-peak periods. In addition, the batteries will
5 smooth the intermittency of the power provided by the solar facilities. The construction
6 and operation of the facilities at each substation is explained in greater detail in the direct
7 testimony of Ameren Missouri witness Kevin Anders.

8 **Q. Are there other benefits that will be provided by the solar facilities?**

9 A. Yes. In addition to providing reliability benefits, the solar facilities will
10 operate when there are no outages. Power generated by the facilities will increase the
11 amount of Ameren Missouri's off-system sales, which are credited to customers through
12 the Company's fuel adjustment clause. Moreover, the Renewable Energy Credits earned by
13 the facilities can be used to meet Ameren Missouri's Renewable Energy Standard ("RES")
14 requirement, even though the Company is not constructing these facilities for the purpose
15 of meeting RES requirements.

16 **III. TARTAN FACTORS**

17 **Q. What standards has the Commission has traditionally employed in**
18 **evaluating CCN applications?**

19 A. The Commission has traditionally analyzed CCN applications using factors
20 announced in a 1994 decision. *In Re Tartan Energy*, GA-94-127, 3 Mo.P.S.C.3d 173, 177
21 (1994). The *Tartan* Factors are as follows:

- 22 1. Need for the Project;
- 23 2. Economic Feasibility of the Project;

- 1 3. Ability of the Applicant to Finance the Project;
- 2 4. Qualifications of the Applicant to Construct the Project; and
- 3 5. Whether the Project is in the Public Interest.

4 An affirmative finding on the first four factors generally leads to the conclusion that the
5 final factor, public interest, is satisfied.

6 **Q. Does the Commission have to determine the first two Tartan factors —**
7 **whether there is a need for the projects for which CCNs are requested in this case, or**
8 **whether the projects are economically feasible?**

9 A. In my opinion, no. Section 393.1665 RSMo. (2018), which was enacted as
10 part of Senate Bill 564, specifically addresses this issue. Subsection 2 of that statute
11 requires an electrical corporation with one million or more Missouri electric customers to
12 invest in the aggregate no less than fourteen million dollars in utility-owned solar facilities
13 located in Missouri or in an adjacent state during the period between August 28, 2018 and
14 December 31, 2023. Subsection 3 of that statute provides that "[a]n electrical corporation's
15 decision to invest in utility-owned solar facilities consistent with subsection 2 of this
16 section shall be deemed to be prudent." Ameren Missouri is an electrical corporation with
17 more than one million Missouri electrical customers. It is required to invest no less than
18 \$14 million in utility-owned solar in Missouri or an adjacent state during the specified time
19 period, which includes these projects. As a consequence, subsection 3 of the statute deems
20 these investments to be prudent. The Commission's traditional practice of assessing the
21 need for a project or its economic feasibility are superseded in circumstances where this
22 statute applies. Nevertheless, the solar generating assets for which CCNs are sought are
23 needed and economically feasible.

1 **Q. What is the need for these assets, and how are they economically**
2 **feasible?**

3 A. The solar generating assets, which will be paired with batteries, are needed
4 to enhance reliability for the substations where they will be constructed and can provide
5 ancillary benefits of increased off-system sales and Renewable Energy Credits. They are
6 economically feasible because they are less expensive than providing a redundant power
7 source through a second subtransmission radial line. However, the Commission should
8 recognize that Section 393.1665.3 deems these projects to be prudent, and that it is not
9 necessary or even appropriate to make findings about these two *Tartan* factors for such
10 qualifying projects.

11 **Q. Do the other *Tartan* factors apply to these projects?**

12 A. Yes they do. These criteria do not address the decision to invest, so they are
13 not superseded by Section 393.1665.3.

14 **Q. With regard to the third *Tartan* factor, does Ameren Missouri have the**
15 **ability to finance these projects?**

16 A. Yes. The total cost of constructing these projects is estimated to be
17 approximately \$68 million. Ameren Missouri has the financial ability to construct the
18 projects because it can access the equity and debt capital necessary to do so while
19 maintaining strong financial metrics.

20 **Q. The fourth *Tartan* factor is the qualifications of the applicant to**
21 **construct the project. Is Ameren Missouri qualified to construct these three projects?**

22 A. Yes. Ameren Missouri is an electric utility with a history in Missouri of
23 over 100 years. It owns generation of all types, including solar generation. Ameren

1 Missouri is qualified to construct the projects, and to operate them, given the financial,
2 technical, and management expertise Ameren Missouri has developed over the course of
3 its long history. As Mr. Anders testifies, Ameren Missouri issued a Request for Proposals
4 and has selected a contractor from those entities that applied. The contractor selected has
5 the experience and knowledge to construct these assets. This more than fulfills this factor.

6 **Q. And finally, factor five is whether the project is in the public interest.**
7 **Would you please address that question?**

8 A. These three projects are clearly in the public interest. They improve
9 reliability for customers served by the impacted substations and they qualify for treatment
10 under Section 393.1655, which encourages regulated utilities to construct utility-owned
11 solar facilities in Missouri and adjacent states. They provide ancillary benefits of increasing
12 off-system sales and generating Renewable Energy Credits, which will ultimately benefit
13 all customers, and the projects meet all of the other *Tartan* criteria that apply.

14 **Q. Does this conclude your direct testimony?**

15 A. Yes, it does.

