MISSOURI PUBLIC SERVICE COMMISSION

CASE NO.: ER-2018-0145

DIRECT TESTIMONY

OF

CHARLES A. CAISLEY

ON BEHALF OF

KANSAS CITY POWER & LIGHT COMPANY

Kansas City, Missouri
January 2018

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

2 A: My name is Charles A. Caisley. My business address is 1200 Main, Kansas City,

3 Missouri 64105.

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

5 A: I am employed by Kansas City Power & Light Company ("KCP&L" or "Company") as

6 Vice President – Marketing and Public Affairs.

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

8 A: I am testifying on behalf of KCP&L.

9 **Q:** **What are your responsibilities?**

10 A: My responsibilities include the Company's small-scale distributed and renewable

11 generation projects, energy products and services platforms, energy efficiency and

12 demand response portfolio, community and customer strategy and communications,

13 marketing, economic development, governmental affairs and public relations functions.

14 Many of these areas are responsible for direct interaction with KCP&L customers and

15 stakeholders. These areas of direct customer interaction include: online/electronic

16 transactions and portals, social media, community affairs, business customers, customer

17 complaints, city franchises and regulated and non-regulated products and services. In

18 addition to having responsibility for multiple areas with direct customer interaction, I am

19 also responsible for leading a cross-functional team of individuals with responsibility for

1   our overall customer experience and strategy. This includes customer research and

2   segmentation as well as customer data analytics.

3 **Q:** **Please describe your education, experience and employment history.**

4 A: I graduated from the University of Illinois in Urbana-Champaign with a Bachelor's

5   degree in political science. I earned a Juris Doctorate degree from St. Louis University

6   School of Law and a Master of Business Administration from Washington University in

7   St. Louis. I joined KCP&L in 2007 as Director of Government Affairs. Prior to joining

8   KCP&L, I was employed by the Missouri Energy Development Association (MEDA),

9   the Missouri Industry Association for Missouri investor-owned utilities, as President.

10   Prior to that I was employed as the Chief of Staff to the Speaker of the Missouri House.

11   In both positions, I dealt extensively with Missouri utility law and energy policy.

12 **Q:** **Have you previously testified in a proceeding before the Missouri Public Service**

13   **Commission ("Commission" or "MPSC") or before any other utility regulatory**

14   **agency?**

15 A: Yes, I have previously testified before the MPSC in Case No. EC-2015-0309 and the

16   Kansas Corporation Commission in Case No. 16-KCPE-160-MIS.

17   **PURPOSE AND REASON FOR THIS FILING**

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

19 A: The purpose of my testimony is to provide an overview of KCP&L's Clean Charge

20   Network. In addition, I will describe KCP&L's Customer Self Service (CSS) portals as a

21   component of the One CIS project.

1		**CLEAN CHARGE NETWORK**
2	**Q:**	**Why is KCP&L requesting rate recovery of the electric vehicle charging stations**
3		**("EVCS") in this case?**
4	A:	As discussed in the direct testimony of Tim Rush, the Commission did not allow EVCS
5		costs to be recovered in rates in the Company's last rate case. Because EVCS are an
6		integral part of the Clean Charge Network ("CCN")and the Company's distribution
7		system, KCP&L is asking the Commission to reconsider its position on the recovery of
8		these costs.
9	**Q:**	**How does KCP&L's CCN fit into the regulatory framework of a regulated public**
10		**utility in Missouri?**
11	A:	KCP&L's CCN is a function of providing electric service under KCP&L's Certificate of
12		Convenience and Necessity. KCP&L is able to integrate EVCS into its distribution
13		system grid. EVCS allow KCP&L to provide regulated electric service to its mobile
14		customers. EVCS are part of KCP&L's regulated electric plant and should be recovered
15		in its rates.
16	**Q:**	**Do EVCS and the CCN serve the public interest?**
17	A:	Yes. The CCN is in the public interest in Missouri because it places Missouri in the
18		forefront of accommodating and promoting development of an industry that is expected
19		to advance quickly in the near future, it brings a public charging network to Missouri in
20		an efficient and effective manner, and it provides benefits to KCP&L's Missouri
21		customers and to Missouri citizens overall. Approval of the CCN tariff allows KCP&L's
22		service offerings to evolve to meet the demands of mobile customers in its certificated

1   territory, ensuring continued provisioning of sufficient and efficient electric service at

2   just and reasonable rates.

3 **Q.   Please describe the CCN.**

4 **A.   In January 2015, KCP&L launched an initiative to install and operate just over 1,000 EV

5   charging stations throughout the Greater Kansas City region and within the

6   KCP&L(Missouri and Kansas) and KCP&L Greater Missouri Operations Company

7   ("GMO") service territories. Currently, the Company has installed 913[1] Level 2 stations

8   and 16 Level 3 stations, or DC fast charge ("DCFC") at 323 locations to support the

9   growing market of electric vehicles ("EVs").**

10 **Q.   Where are the EVCS located?**

11 A.   The stations are located throughout the KCP&L and GMO service territories near where

12   people live and work.

13   The Company has placed the majority of the Clean Charge Network in workplace

14   and retail locations; however other venues have also been popular. Below is a summary

15   of EVCS installations by location type:

Workplace	28%	Hospitality	8%	Education	7%
Retail	20%	Multifamily	8%	Municipal	7%
Healthcare	11%	Parking Garage	8%	Parks and Rec	3%

16
17   The Company has placed 270 stations in KCP&L-Kansas, 399 stations in

18   KCP&L-Missouri, and 260 stations in GMO.

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[1] As of January 2, 2018.

1	Q.	**Please explain how EVCS host arrangements work.**
2	A.	The standard host contract is for a term of ten years. The Company will install, own, and
3		maintain the EV charging station infrastructure. Hosts may have Level 2 or Level 3 or
4		both types of stations installed at their location. Those hosts who have Level 3 charging
5		stations, must agree to provide one parking space for a dual port Level 3 charging station
6		and 6-10 parking spots on average for 3-5 dual port Level 2 charging stations. The host
7		agreed to pay for the electricity used at the Level 2 charging stations for a period of 2
8		years, and a grant from Nissan paid for the electricity used at the Level 3 charging and a
9		third year of Level 2 charging through December 2017.
10	Q.	**How is KCP&L currently billing users of the Clean Charge Network?**
11	A.	For the first three years electric vehicle ("EV") charging was free for all drivers. KCP&L
12		utilized a grant from Nissan to cover the cost of charging in the 3rd year. However, as of
13		January 1, 2018, the Clean Charge Network has moved to a host site or EV driver pay
14		model. Driver charging will continue to be free at host sites that have agreed to pay for
15		the cost of charging. Of the 929 stations, 180 stations will be host paid. These host paid
16		sites include retail locations, hospitals, and grocery stores, among others. For locations
17		that elected the driver pay model, the cost of charging will be billed to the driver on a per
18		kilowatt hour rate and paid by the driver through the ChargePoint payment collection
19		system.
20	Q.	**How are EV drivers billed through the ChargePoint system?**
21	A.	KCP&L has contracted with ChargePoint, the charging station vendor, for ongoing
22		charging station network operations, driver support services, and for the billing and
23		collection functions related to energy provided at the EV charging stations. Under the

1   Driver Pay scenario, individuals who charged their vehicles would be billed through the

2   meters in the charging station for the energy they used. The charging station and

3   ChargePoint's web and mobile applications are able to tell the driver the rate he is going

4   to be charged as well as whether or not and when a session overstay fee would be

5   charged at that station. The payment is collected by ChargePoint, pursuant to an

6   agreement between ChargePoint and the charging customer, and remitted to the

7   Company. KCP&L will be able to compare usage recorded and paid for by all of the

8   stations at an installation cumulatively, to the monthly usage recorded by the utility meter

9   at the installation. The tariff proposed by KCP&L is discussed more fully in the Direct

10   Testimony of Company witness Mr. Tim M. Rush.

11   **Q.   How does a customer sign up to use EVCS?**

12   A: Drivers can sign up and establish a ChargePoint customer account or directly with

13   ChargePoint to access stations on the KCP&L Clean Charge Network and over 21,000

14   EV charging spots nationwide on the ChargePoint network. Once the customer account

15   is established, the account holder must register the KCP&L Clean Charge Network (or

16   generic ChargePoint) radio frequency identification ("RFID") cards that are authorized to

17   register charges against their account. The account holder may register CCN RFID cards

18   that they have received from KCP&L or car dealership, or they may request cards be sent

19   to them.

20   **Q: How does a customer use EVCS?**

21   A: Once a driver establishes a ChargePoint account, they can access a EVCS by using their

22   KCP&L CCN card, the ChargePoint mobile app, an RFID credit card or by calling driver

23   support at (888) 758-4389. The 888 number is listed on each charging station and on the

1		back of the KCP&L CCN card. How-to videos run on every charging station and
2		additional Frequently Asked Questions are available on KCP&L's website at
3		https://www.kcpl.com/media/indexedmedia/about_kcpl/ccn/cleanchargefaqsforevdriversf
4		inal.pdf. Drivers have access to 24/7 support, an advanced mobile app to help them find
5		available charging stations, notifications about charging status and much more. Drivers
6		can also save their favorite station locations, and track their energy use, gas savings, and
7		avoided greenhouse gas emissions.
8	**Q.**	**Is an EV driver required to sign up with KCP&L to qualify for EVCS tariff?**
9	A.	No. EV drivers may sign up for an account directly with ChargePoint and EV drivers
10		that do not have a ChargePoint account may access a CCN charge station by calling
11		ChargePoint driver support and providing a valid credit card. All EVCS charging will be
12		billed under the charging station tariff.
13	**Q.**	**How will an EV driver know how much they are being billed to charge their EV at**
14		**EVCS?**
15	A.	At charging stations operating under the driver pay model, the EVCS, ChargePoint's web
16		and the ChargePoint mobile application will all provide the driver the kWh rate they are
17		going to be charged along with any session overstay fees that could be assessed and all
18		applicable taxes that will be applied.
19		At the end of each charge session, all session cost components and taxes assessed
20		may be reviewed on the charge station and the driver can also elect to receive e-mails
21		and/or text messages containing the charge session cost details. The ChargePoint account
22		holder can also review a history of charging sessions that have been charged to their
23		account with the cost components for each charging session.

1 **Q:** **Can you explain the concept of the Session Overstay Fee contained in the proposed**

2   **tariff?**

3 A: The Company has the discretion under Schedule CCN ("Clean Charge Network") to

4   impose a Session Overstay Fee to incent customers to move their vehicles once the

5   charging process is completed so that other customers can have access to the charging

6   station. If a Session Overstay Fee is approved the driver would be provided a grace

7   period after the EV has completed charging before the Session Overstay Fee would be

8   imposed. The grace period allows the EV driver to receive notification (via text or e-

9   mail) and move their vehicle to avoid these charges.

10 **Q**   **How does KCP&L intend to determine if a Session Overstay Fee should be applied?**

11 A: The Company plans to only implement the Session Overstay Fee when needed at

12   charging station locations based on the occupancy and availability of charging ports at

13   each host site location. Initially, KCP&L does not plan to implement the Session

14   Overstay Fee on any of the charging stations. The Company will monitor charge port

15   availability and overstay times and implement Session Overstay Fee at host locations

16   where the additional inducement is needed to get drivers to move their vehicle.

17 **Q.**   **Will the Session Overstay Fee be the same at all Clean Charge Network locations?**

18 A.   No. Schedule CCN sets a cap of $6.00 per hour for Session Overstay Charge and care

19   must be taken to ensure they are set high enough to incent drivers to move their vehicle

20   but not so high as to discourage customers from using the stations. KCP&L set the

21   maximum of the range of Session Overstay Charge at $6.00 per hour based on the

22   maximum rate of charge provided by the Level 3 charging station – the fastest charger.

23   The lost revenue potential of a Level 2 charge port is significantly less (approximately

1     $1/hr.) and the Session Overstay Charge should reflect this differential. The Company

2   wants to establish the minimum number of Session Overstay Charges levels but

3   recognizes that higher overstay charges may be needed at some locations compared to

4   other.

5 **Q.**   **What type of other notification can a driver receive?**

6 A: Notifications are available to make drivers aware of their EV charging status at all times.

7   Text and email notifications can be set up to notify drivers when their car is fully

8   charged, when charging is interrupted, when a session overstay grace period is ending,

9   and when EVCS become available for use.

10 **Q.**   **How does ChargePoint collect charging fees from account holders?**

11 A.   ChargePoint operates on a prepay credit system. The first time you use a ChargePoint

12   station with a fee, the driver will need to enter payment information. ChargePoint

13   charges the Account holder $10 using their preferred payment method on file and deducts

14   the charging costs from it. Every time the account balance goes below $5, ChargePoint

15   charges the account another $10 using the payment method on file. If the driver cancels

16   their account, ChargePoint refunds the remainder of the balance to the account holder.

17 **Q.**   **What has the Company done to increase the use of the CCN?**

18 **A.**   The Company has undertaken many community outreach and marketing activities related

19   to the CCN, including building an EV driver affinity group, outreach and training to local

20   car dealerships, partnership with Nissan, development of a multi-pronged advertising

21   approach, held EV events and built a customer microsite.

1 **Q.** **What has been the growth in the number of electric vehicles in the Kansas City**

2 **metro area?**

3 **A.** For four quarters in a row, Kansas City has led the nation in electric vehicle growth with

4 a 78 percent increase in the first quarter of 2017; 79% increase in second quarter 2017

5 and 63% increase in third quarter 2017 respectively as compared to 2016.[2] The graph

6 below illustrates this growth compared to other large cities in the United States. As

7 shown in the graph, the Kansas City area has had an accelerated growth relative to other

8 cities shown. It is reasonable to conclude that there is a direct correlation between the

9 increased accessibility made possible by widespread placement of EV infrastructure

10 through the CCN and the growth in adoption of electric vehicles.
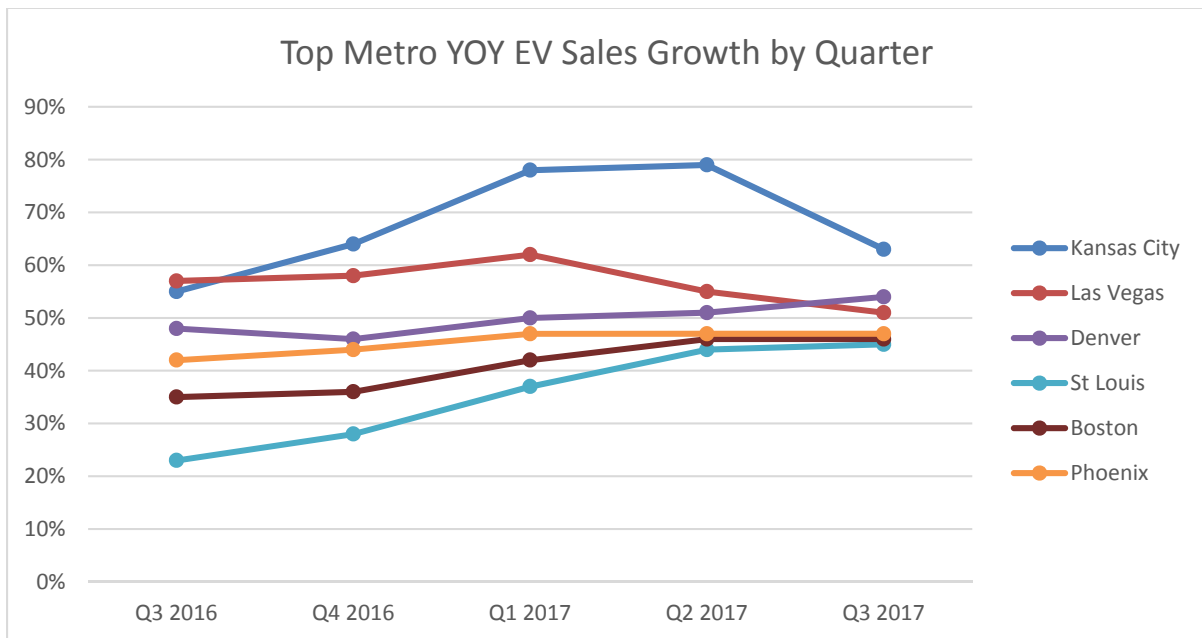
11

Top Metro YOY EV Sales Growth by Quarter

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1 **Q.** **What has been the growth in the number of electric vehicles been in the KCP&L**

2 **service territories?**

3 **A.** At the end of 2014, just prior to the launch of the Clean Charge Network, there were an

4 estimated 805 plug-in electric vehicles ("PEVs") in the KCP&L service territories. As of

5 June 30, 2017, the number of registered EVs in all KCP&L jurisdictions had increased to

6 over 2,400 PEVs, a compounded average annual growth rate of 44%.

7 In addition, the number of registered EVs in the Company's service territories has

8 grown faster than the cumulative new EV sales indicating that dealers are importing off-

9 lease and trade-in EVs from other markets to Kansas City to meet the growing demand.

10 Another change in the electric vehicle market is the decreasing dominance of plug-in

11 hybrid electric vehicles ("PHEVs") and the consumers increased willingness to invest in

12 battery electric vehicles ("BEVs") with a limited driving range, typically below 80 miles.

13 The following table provides the breakdown by jurisdiction. Initially, PHEVs

14 made up 70 percent of PEVs, but now PHEVs represent 56 percent of PEVs and BEVs

15 have increased to 44 percent of all PEVs.

| Jurisdiction	YE 2014	YE 2015	YE 2016	Q2 2017
KCP&L-GMO	139	195	304	386
KCP&L-MO	265	388	641	842
KCP&L-KS	401	556	909	1,176
Total	805	1,139	1,853	2,403

16
17 **Q.** **How were these estimates developed?**

18 A Under KCP&L's participation in the Electric Power Research Institute's ("EPRI")

19 Transportation Electrification research program, KCP&L receives monthly report of the

1		number of vehicles registered by type for each Company jurisdiction. EPRI uses monthly
2		county level 'new vehicle' registration data and quarterly zip-plus4 vehicle registration
3		data to develop the vehicles in operation for each service territory.
4	**Q.**	**What has been the growth in the number of electric vehicle drivers using the Clean**
5		**Charge Network?**
6	**A.**	The number of unique EV drivers using the CCN has increased, as illustrated in the
7		following graph, from 86 in January 2015, to 2,092 as of December 2017, a compounded
8		average annual growth rate of 190%.
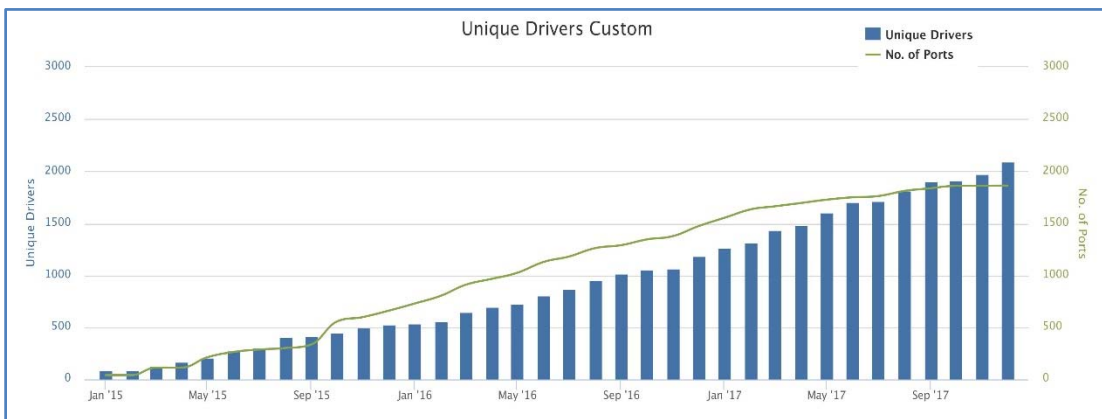
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| 10	**Q.**	**Are there additional metrics to illustrate the growth in the use of the Clean Charge**
11		**Network?**
12	**A.**	Yes, in addition to the number of unique drivers using the Clean Charge Network, the
13		number of charge session and the energy dispensed are metrics that illustrate the growth
14		in use of the Clean Charge Network. Over the same three (3) year period, the number of
15		monthly charge sessions has grown steadily from 513 to 16,162 for a 216% compounded
16		annual growth rate and the energy dispensed monthly has increased from 4,028 kWh to
17		117,355 kWh (208% compounded annual growth rate)

1 **Q.   What has KCP&L learned about driver charging patterns impact on the electric**

2   **system?**

3 A.   One of the objectives of the CCN was to gain a better understanding of EV driver

4   charging patterns. As discussed previously EVCS have been installed at a wide variety

5   of host site locations, but all host locations generally fall within three broad host

6   classifications:1) Workplace, 2) Retail/PublicVenue, and 3) Multi-family.

7   Approximately 50 percent of the EVCS have been installed at locations that

8   primarily support driver workplace charging. The following figure illustrates the

9   aggregated daily charging pattern of workplace charging for the last two weeks in July

10   2017. The figure illustrates a very consistent weekday charging pattern that begins early

11   in the morning, reaches a peak by mid-morning, and is significantly reduced by noon.

12   This charging pattern is very complementary to both the system and commercial

13   distribution feeder load profiles.

14
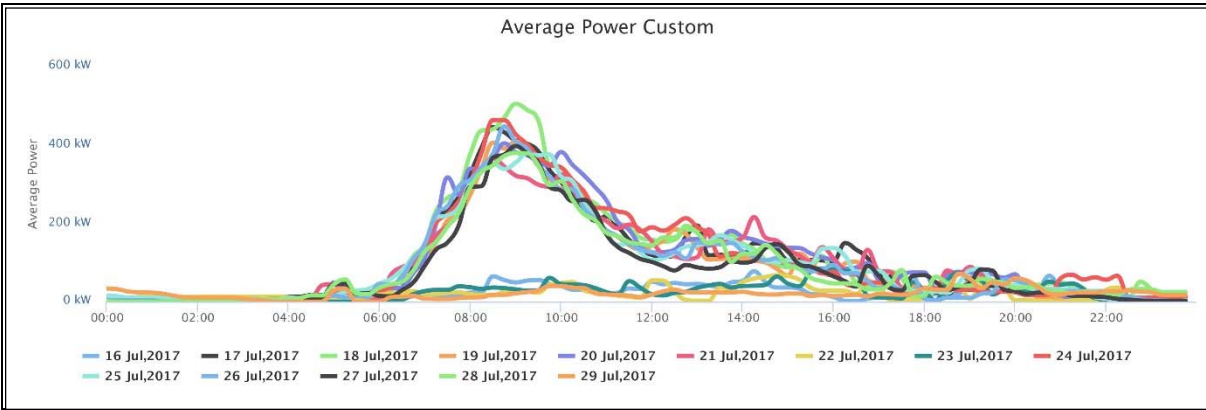
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16   Approximately 42 percent of the EVCS have been installed at retail/public venues

17   locations that primarily support more transient or opportunistic driver charging. The

18   following figure illustrates the aggregated daily charging pattern of retail/public venue

1   charging for the last two weeks in July 2017. The figure illustrates a very random daily

2   charging pattern that begins in the morning and continues through the remainder of the

3   day. The figure illustrates some potential contribution to system peak during the 4-6 pm

4   hours.

5

Average Power Custom
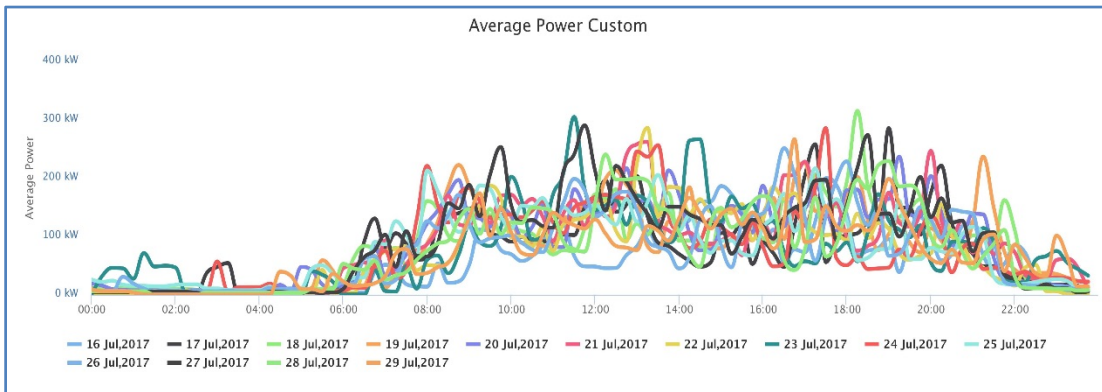
6   Only 8 percent of the EVCS have been installed at multi-family locations to

7   primarily support apartment and condominium home charging. The following figure

8   illustrates the aggregated daily charging pattern of the multi-family locations for two

9   weeks in July 2017. The figure illustrates a very random daily charging pattern and very

10 little can be determined at this time due to the fact that many of the multi-family

11 installations are relatively recent and to date service very few drivers.

12

Average Power Custom
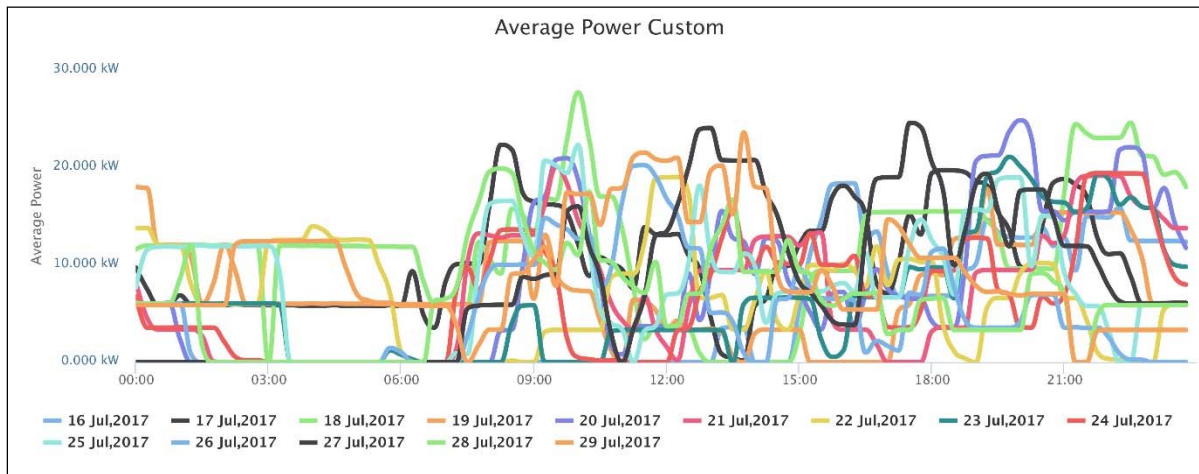
1 **Q.   What are the benefits of the Clean Charge Network?**

2 A.   <u>Beneficial Electrification</u>: EVs increase electricity sales during off-peak times.

3   Increased electricity sales help spread the costs of maintaining the grid over more

4   kilowatt-hours, helping keep rates competitive for all customers. Off-peak usage also

5   reduces the need for additional generation and grid upgrades to keep up with demand.

6   <u>Environmental Benefits</u>: EVs will reduce ozone-reducing pollutants and carbon

7   dioxide from tailpipe emissions thereby providing environmental benefits. Based on

8   2014 emissions data for the Southwest Power Pool (SPP), EV emissions are equivalent to

9   a 46 MPG[3] conventional vehicle. This is lower than some gasoline powered vehicles, but

10   is significantly above the 2017 model year vehicle average of 25.2 MPG[4]. The 46 MPG

11   equivalent rating, is an improvement of 10 MPG from just 5 years ago and reflects the

12   environmental controls and increased renewable generation in the SPP fleet. And since

13   2014, KCP&L's generation fleet has continued to reduce emissions as coal plants are

14   retired and more renewable generation resources are added.

15   <u>Economic Benefits</u>: A forward-thinking community attracts businesses and talent,

16   especially in competitive categories. EV owners spending less on fuel and maintenance

17   spend more money on other products, and often do so locally. In addition, there is

18   potential growth in the auto, EV, battery and charging industries within the Kansas City

19   region. As a result, there is direct and indirect job creation from charging station

20   deployment, EV sales and servicing.

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[3] http://blog.ucsusa.org/dave-reichmuth/new-numbers-are-in-and-evs-are-cleaner-than-ever
[4] http://www.umich.edu/~umtriswt/EDI_sales-weighted-mpg.html; accessed January 20, 2018

1   Customer Programs: The KCP&L Clean Charge Network provides vital data that

2   helps us develop future new customer programs for DSM, time-of-use (TOU) rate, and

3   EV charge management and vehicle-to-grid battery storage/discharge.

4 **Q.   How will KCP&L's non-EV driver customers most directly benefit from KCP&L's**

5   **investment in the Clean Charge Network.?**

6 A.   All KCP&L customers will benefit from the increased electricity sales during off-peak

7   times from increased EV adoption. Increased electricity sales help spread the costs of

8   maintaining the grid over more kilowatt-hours, helping keep rates competitive for all

9   customers. Off-peak usage also reduces the need for additional generation and grid

10   upgrades to keep up with demand

11 **Q.   What is the Company's vision for the Clean Charge Network?**

12 A.   The number of EVs in the country is growing each year at a faster and faster pace and

13   this trend is expected to continue. The environmental benefits of EVs, the support for the

14   industry by elected officials and policy makers, coupled with the decreasing costs of a

15   growing number of EVs and plug-in hybrid electric vehicles (PHEVs) on the market as

16   well as the economic savings to EV owners, all support a thriving industry over the next

17   decade.

18   However, the industry can only advance if there are adequate charging stations

19   throughout the country, similar to what we now have for gasoline-powered vehicles. The

20   lack of EVCS infrastructure presents a barrier to EV market penetration at scale in the

21   industry and the lack of a standardized financial transaction infrastructure also inhibits

22   the industry's growth. The CCN has helped alleviate this barrier in our service territory

1 and is providing KCP&L with data to better understand the charging needs and behaviors

2 of our EV driver customers.

3 The CCN is part of our strategy that focuses on testing and proving customer

4 programs via targeted projects and technologies that align with the philosophy of

5 empowering customers and optimizing the grid. By embracing a vision of the future that

6 chooses to think of integrating edge-of-grid resources as an opportunity, instead of a

7 threat, and customers as partners, instead of obstacles, we can optimize grid utilization

8 and continue to deliver affordable, clean, and reliable power for the long haul.

9 **ONE CIS PROJECT**

10 **Q: How will the customer portals change in the One CIS Project?**

11 A: As part of the One CIS project, KCP&L will replace all four of its online authenticated

12 customer portals. KCP&L will utilize Oracle Customer Self Service as a Web portal

13 platform that will give customers online options for paying bills, requesting service and

14 managing their account which includes monitoring their energy usage. The CSS project

15 is part of the broader One CIS initiative, and it focuses on enhancing the Customer Self-

16 Service experience while standardizing on a single technology platform. The CSS

17 environment currently uses multiple platforms to support the four different portals used

18 by the various KCP&L customers. The CSS project will enhance and replace each of the

19 four portals with a new version, sharing a common infrastructure, with the goal of

20 empowering the KCP&L customer base to fulfill their needs online, with zero-to-minimal

21 interaction with customer service representatives.

1 **Q:**   **Why did the Company decide to replace all four online authenticated customer**

2   **portals?**

3 A: All four are tightly coupled with sending transactions and receiving information from the

4   CIS billing system. All four are interrelated and if one portal is replaced, all of the

5   portals must be replaced.

6 **Q:**   **Could the existing portals be used with the Oracle CCB billing system?**

7 A: The foundational architecture for the existing portals was built using ColdFusion, a

8   programming language which is waning in popularity, now widely considered a legacy

9   method for web programming. It does not provide a foundation for new capabilities for

10   the Company's customer portals.   More importantly, with the obsolescence of

11   ColdFusion, ColdFusion programmers are becoming more scarce

12 **Q:**   **What limitations hindered keeping the current portal structure in place while**

13   **implementing CCB?**

14 A: The current architecture for the portals requires that all CIS billing data (both GMO and

15   legacy CIS) must be replicated into shadow databases on a nightly basis. These

16   databases are used for customer external access. It supports only limited real-time

17   customer data access of CIS billing information. Another primary concern would be the

18   ability for the portals to interact directly with CCB and process transactions real-time

19   (such as payment processing). The interaction into CCB would have to be accomplished

20   by creating a brand new "handshake" between the portals into a brand-new middleware

21   programming language that accepts a digital transaction from the portal and transmits it

22   to CCB. Given the uncertain future of ColdFusion as a viable platform for interactive

23   websites, it would not be prudent to invest the effort to rely on it as a primary tool for

1   critical interfaces to the new billing systems and the many associated systems involved in

2   the One CIS effort.

3 **Q:**   **Did the Company buy a new software program to replace the portals?**

4 A: No, there is no viable off-the-shelf program available in the market place that can provide

5   the breadth of functionality and flexibility that our current websites give KCP&L

6   customers today. We had a guiding principle that we would not to take away current

7   functionality that our customers are using and enjoy. Thus, we decided to build the sites

8   using Sitecore platform.

9 **Q:**   **What programming language was used?**

10 A: The primary coding language is Microsoft .Net. That's supplemented with other web

11   coding and scripting tools like HTML, HTML5, Javascript, CSS (Cascading Style Sheet,

12   not to be confused with Customer Self Service). Another software component is a CMS

13   (content management system) which is Sitecore, another .Net tool.

14 **Q:**   **Why is a content management system necessary?**

15 A: Sitecore is a customer experience management company that provides web content

16   management and multichannel marketing automation software. The Sitecore software is

17   used on kcpl.com for our public company website. By using the same software, we can

18   leverage the same content to have a consistent look and feel across the public site through

19   to the authenticated portal site. We will be able to leverage our employee workforce to

20   provide content for both sites.

21 **Q:**   **What are the components of the authenticated customer portals?**

22 A: The Company maintained the same set of four portals, My Account, AccountLink

23   Advantage, ApartmentLink and AgencyLink. These portals serve all our residential,

1   commercial, Tier 1 and Tier 2 customers.   Additionally, they service property

2   management companies and landlords. Finally, we provide a portal for social service

3   agencies that support our customers needing energy assistance.

4 **Q:**   **What was the final components of the portals?**

5 A: At its core, the CSS portals rely on three layers:

6 •   User Interface: The UI is based on Sitecore and it's needed to interact with the user and

7   the exposing of various functionalities. The UI layer relies on several services to properly

8   render the required functionality.

9 •   Integration Layer: A service layer responsible for relaying information back and forth,

10   from the UI to the OUAF family of applications. The integration layer also serves as a

11   bridge to all integrations with 3rd party services.

12 •   OUAF Core services: The OUAF (Oracle Utilities Application Framework) layer is made

13   up of CCB, as the core billing platform integrated with MDM and OMS to support all

14   meter and network functionalities. These together, along with enterprise business

15   services, act as the hub of the CSS architecture.

16 **Q**   **Did the Company have a goal in mind for scope of functionality for the customer**

17   **portals?**

18 A: We had a team of analysts that documented every functional requirement in our customer

19   portals. Each requirement was used as the foundational requirement in the RFP's that

20   were sent to qualified vendors.   Each requirement was tracked in a Requirements

21   Traceability Matrix (RTM) to ensure the functionality was part of the delivered scope of

22   the new portals. The requirements went through an evaluation process to determine

23   customer benefit, efficiency and usability, and based on that the original scope of the

1   project was established and estimated. Any new requirement will be required to go

2   through the same rigorous vetting process before it can affect the project scope. Once the

3   scope is fully accepted, a change request (CR) will be required to support any additional

4   work.

5   **Q: How did KCP&L determine the scope of functionality for the customer portals?**

6   A: Our baseline for the new portals was to recreate current functionality. Exceptions to this

7   rule were additional functionality provided by tight integration with CCB (such as Budget

8   Billing enrollment, payment plans and real-time payments) and features enabled by other

9   project integrations (for example, detailed energy data from interface with MDM). Other

10 guiding principles included providing equivalent features across both divisions (GMO

11 and KCP&L) and ensuring the website is fully responsive and optimized across devices

12 (pc, laptop, tablet, mobile device), operating system (Windows, iOS, Android) and

13 browsers (Internet Explorer, Chrome, Safari).

14 **Q: How can you be sure your investment will yield a platform for the future of**

15 **customer self service enhancements?**

16 A: We believe the .Net platform and Sitecore content management system is a sound

17 platform and will provide years of growth and customer benefits. These platforms have

18 an abundant workforce in the metro area to hire directly or to work with 3rd party vendors

19 to provide resources. Finally, since this is a popular platform this will support expanding

20 our services to our customers as we work with 3rd party vendors to offer customer

21 programs.

1	**Q:**	**Did you use any KCP&L employees to design and implement the new portals?**
2	A:	We simply did not have the number of resources that were needed to rebuild these
3		portals. We are staffed with resources to support our operations and controlled upgrades
4		to the portal. A complete overhaul, such as the One CIS project, required outside
5		resources to accomplish this in the project timeframe.
6	**Q:**	**What was the project timeframe?**
7	A:	The project timeframe is discussed in the Direct Testimony of Forrest Archibald.
8	**Q:**	**Who did you choose as your partner to write the software?**
9	A:	Through the RFP processes we found 3 viable candidates. They were PWC, Oracle and
10		DEG. DEG is a local company and they are a long-term partner with KCP&L working
11		with us on the public .com website. DEG, a low-cost bidder, was the likely and preferred
12		source (because of their proximity and ability to support the portals long-term) to do this
13		work. However, DEG's lack of knowledge about CCB and the middleware connection to
14		CCB made it a challenge for them to bid the entire project. DEG bid was for the front-
15		end customer facing functionality. Between Oracle and PWC, we chose PWC and the
16		middleware and backend integrator for the portals. This was the likely choice because
17		they were the system integrator for CCB. They had all the knowledge about the new
18		processes and had all the knowledge about the implementation methodology and
19		timelines. While working with two different vendors provided a unique challenge for
20		governance, the partnership with DEG, PWC and KCP&L provide to be the best choice.
21	**Q:**	**Did KCP&L employees participate in the development of the portal?**
22	A:	Yes, the portal component of the project was called CSS. This stands for Customer Self
23		Service. KCP&L had a CSS project lead, CSS IT technical lead, CSS business lead and a

1	CSS testing resources throughout various stages of testing. The project team also used
2	resources from the Customer Experience and Marketing Communications team to
3	provide oversight to the content and look and feel of the portals. The CSS business lead
4	has been the manager of the existing authenticated portals for 20 years. We were guided
5	by our business stakeholder, Sr. Director Customer Experience and Marketing
6	Communications throughout the entire construct, implement, operate and review process.
7	**Q:**	**How did the development approach connect to the One CIS project and CCB**
8		**functionality?**
9	A**:**	The CSS development approach mirrored the One CIS approach, with some minor
10		changes to account for the heavy dependency on service integration to render key
11		functionalities. The development phase required the collaboration of three separate
12		vendors, who are each responsible for producing clean, tested, and executable code—a
13		code base which is integrated, based on a common methodology.
14	**Q:**	**How can you be sure they will function properly when you go live and your**
15		**customers will not experience any downtime?**
16	A:	KCP&L chose another vendor, Veracity, to lead our testing efforts. They could provide
17		local resources as well as an experienced testing lead. Veracity as also an independent
18		partner from DEG and PWC and could provide oversite guidance to our CSS leads. Part
19		of the scope for PWC, DEG, Veracity and KCP&L was to develop test cases that aligned
20		with each of the requirements. We had more than 7,000 test cases. Often these were
21		tested over and over during the various testing phases of the project. These test cases
22		spanned several internet browsers and hardware.

| 1 | Q: | **What other testing strategies ensured the functionality?** |

| 2 | A: | The CSS testing strategy is dependent on the overall One CIS testing strategy--and

| 3 | | follows the same methodology and schedule. We had different environment to test the

| 4 | | software in. The environments spanned from development, System Integration Testing

| 5 | | (SIT) environment and User Acceptance Testing (UAT) environment. The UAT

| 6 | | environment was built on production servers and operating systems. Code delivery

| 7 | | migrated through all environments. Other quality assurance methods included nightly

| 8 | | triage for defects in the CSS portals. Morning triage meeting spanned the overall One

| 9 | | CIS project team which included all products such as CCB, MDM, CRM/MAP and CSS.

| 10 | | Testing metrics such as number of defects and estimated fix dates were monitored by

| 11 | | project team leads, PMO and QA leads.

| 12 | Q: | **Did you have a goal in mind for customer service metrics for the customer portals?** |

| 13 | A: | Customer Service Metrics: These are standard metrics that the industry uses to measure

| 14 | | and benchmark how utilities interact and transact business with customers. This includes

| 15 | | measuring and working to see improvements in our electronic portals. Our goal is to be

| 16 | | top quartile among utilities nationwide and to see continual improvement in these metrics

| 17 | | as well as continual streamlining in our customer processes. This is an ongoing process.

| 18 | | We use Foresee to help maximize the customer experience on our online / digital

| 19 | | platforms.

| 20 | Q: | **Can you describe KCP&L's efforts around its online presence with electronic** |

| 21 | | **transactions. How does this impact customer experience?** |

| 22 | A: | KCP&L was an early adopter of electronic portals and has seen the importance of a

| 23 | | strong digital platform for more than a decade. As stated previously, all customers are

1   different. Some customers prefer talking to a representative on the telephone and paying

2   their bill through the mail. However, a growing segment of customers prefers to find

3   information on the internet and to conduct business online. To accommodate those

4   customers, KCP&L has had a robust digital and online strategy for nearly a decade. Our

5   focus here is to provide online and mobile solutions that work for our customers.

6   Currently, KCP&L has a mobile-optimized website as well as highly-utilized

7   authenticated electronic transaction portal called MyAccount. As of the end of 2015,

8   more than 55% of KCP&L's customer transactions now occur on online sessions. And

9   KCP&L's customer satisfaction with these portals is industry leading.

10 **Q: How does KCP&L approach customer service with business customers?**

11 A: A separate team of employees works with business customers. Typically, business

12   customers have more complex requirements than residential customers. Their bills are

13   generally more complex. Business customers often have higher voltage service, more

14   complex bills with multiple accounts associated with one customer as well as various

15   adjustments to their tariffed rates, such as an economic development rider. To   serve   the

16   digital customer we have a separate portal called, AccountLink Advantage (known as

17   ALA). This is reserved for Tier 1 and Tier 2 customers to interact by viewing their

18   energy usage, paying their bills, consolidating information across a customer's business

19   and multiple accounts and overall managing their accounts.

20 **Q: How does implementing the new portals during this timeframe leverage the Oracle**

21   **CCB product?**

22 A: When it comes to our business customers (ALA) our customers cannot set up/modify

23   banking data directly. The other big strategic win for our ALA customers is the ability to

1   be able to view interval data. Our sophisticated business customers want to be able to

2   manage their energy and understand when and how their energy is being used. The new

3   portals unlock the potential the AMI/MDM systems for both residential and commercial

4   customers by being able to access this data at various levels (yearly, monthly, hourly and

5   15 minute intervals).   This data is displayed graphically and can be downloaded for

6   further analysis.   Both our residential and commercial customers will enjoy the same

7   functionality across our service territory.   Today some limitations exist for the GMO

8   customers.

9   **Q: Are there additional ways KCP&L has improved their customer experience because**

10   **of the new portals?**

11 A: Yes. Customer expectations continue to evolve and to increase. Customers do not judge

12   their utility's customer service relative to other electric utilities across the country.

13   Rather, customers compare their electric utility to other companies they do business with

14   every day, like their bank or their credit card company. These types of companies – and

15   others the Company is compared to like Amazon and Wal-Mart – provide customers

16   smooth online experiences that allows them to quickly and easily conduct their business

17   then move on. The new portals bring the Company in line with what customers expect to

18   experience when they come online to start service, pay their bill or better understand their

19   energy usage and costs. Customers also expect to be able to tell the Company how they'd

20   like to be kept up-to-date with their account, through messages like paperless billing

21   notifications, bill reminders and more. And they expect to be able to receive those

22   messages via email, text message or both, depending on their preferences. With the new

1		portals, the Company has created a preference center and expanded the number of
2		notifications customers can receive.
3	**Q:**	**What types of communications preferences can customers set within Customer Self-**
4		**Service, why is that important and how does it benefit customers?**
5	A:	The Company wants to offer customers appealing options and control over what
6		information they receive, how and when. This increases customer satisfaction.
7		With the new Customer Self-Service, the Company provides nine different overall
8		options for telling the Company how they'd like to be communicated with. These options
9		allow them to select the types of information they want to receive and indicate which
10		channel they prefer – email or text message. Customers also can opt out of
11		communications, if they wish.
12		One of the business requirements the team specified for this functionality is the
13		ability to store and manage customer preferences in a way they can efficiently and
14		effectively be utilized across the organization, allowing the Company to serve customers
15		better in every channel. For example, customers can speak with a Customer Service
16		Representative over the phone to change their preferences and they can select preferences
17		themselves through the online portal. Both interactions will work seamlessly for the
18		customer because of the systems selected to manage this interaction.
19	**Q:**	**What systems were selected to manage customer communication preferences?**
20	A:	Several systems working together provide customers appealing potions and control over
21		what information they receive, how and when. These systems also orchestrate the
22		delivery of the more than 13 million messages that are delivered annually as a result of
23		these customer requests.

1   Customer Self-Service (CSS) provides the preference selection capability to

2   customers online. Customer Care & Billing (CC&B) stores these preferences, ensuring

3   they are up-to-date, tied to the appropriate accounts and visible to Customer Service

4   Representatives. Oracle Eloqua is a system that creates and stores the templates for all the

5   message types and variations, receives triggers from CC&B and delivers the appropriate

6   messages to individual customers via email and text message. Eloqua also ensures

7   compliance with applicable regulations, such as the CAN-SPAM law, and reports back to

8   CC&B text message payments, message delivery confirmations and updates to customer

9   preference information, such as email opt-outs.

10   **Q: What improvements have you made to the types of account notifications customers**

11   **receive because of their completion of a task on a Customer Self-Service portal?**

12   A: Currently, the Company offers a smaller set of more basic transactional notifications for

13   customers through email and text messages. For example, when a customer pays their bill

14   online through the current Customer Self-Service portal, they receive a confirmation

15   email letting them know their payment was submitted. Several improvements are being

16   made to these notifications.

17   First, the Company will now offer more of these notification options. J.D. Power

18   and Associates indicates that the more account notifications customers have available to

19   them, the higher their satisfaction. The Company's current offering includes 26

20   notification types with 81 variations of those messages, depending on transaction details

21   and customer type. With this initial go-live of the redesigned Customer Self-Service

22   portals and Eloqua, the offering increases to 42 notification types with 238 variations

23   accommodating transaction details and customer type. Seventy-two of the variations are

1 enhancing existing notification types by adding additional personalization not available in

2 the current state offering.

3 Second, the Company is adding more functionality to its text messaging account

4 management offering. Currently, KCP&L's text messaging offering allows customers to

5 receive billing alerts via text message and to pay their bill via text. KCP&L was among

6 the first five regulated investor-owned utilities to offer this type of service to residential

7 customers in 2011. Based on customer feedback and continued learning around industry

8 best practices, the text messaging program is being expanded to offer several new

9 features.

10 First, several new notification types are being offered around payments and due

11 dates. In terms of payments, the Company has added a scheduled payment cancellation

12 notification, a confirmation of enrollment into a payment plan, and a "last payment"

13 feature that allows enrolled customers to text keyword LAST to view the date and

14 amount of their last payment made. There are now also five variations of text

15 notifications for payment failures, depending on the details of why a payment has failed.

16 In terms of due dates and reminders, the Company has added a bill overdue notification

17 and a payment plan due notification.

18 Second, the Company is offering customers enrolled in the text messaging

19 account management program the ability to avoid pending disconnection by texting the

20 keyword MIN. This will automatically pay the minimum amount due to avoid

21 disconnection in real time.

22 The Company also has added the ability for a user to manage multiple accounts

23 through one phone number in the text messaging program. Previously, there could only

1   be one account per phone number. This is a vast improvement to the user experience for

2   customers who have multiple accounts.

3   **Q: Why is it important that the Company have a system like Oracle Eloqua to deliver**

4   **email and text messages?**

5   A: With Eloqua, the Company has a reliable, sustainable message orchestration and

6   distribution platform that can be scaled to grow and evolve with the needs of customers.

7   The Company's current delivery mechanisms for transactional emails and text messages

8   were built upon legacy ColdFusion applications. Those applications are not compatible

9   with Oracle Customer Care and Billing and would not have been sustainable for that

10   reason and because ColdFusion is a dying computer programming language few

11   developers can support. Therefore, a new system was required to deliver these messages.

12   This new system — Oracle Eloqua — provides a platform for the Company to deliver

13   email and text messages in a way that is highly reliable, automated and significantly

14   easier to maintain. Creating such a platform was essential for the Company to be able to

15   increase the number and types of notifications offered to customers now and in the future.

16   It will allow the Company to encourage even more customers to transact with the

17   Company online, should that meet their preference, and it will ensure there is a solid

18   fountain for additional options to be added in the future more easily than with legacy

19   systems.

1 **Q:** **Are there other ways the Company will improve customer experience using Oracle**

2   **Eloqua?**

3 A: Yes. Oracle Eloqua is a type of software called a marketing automation platform, which

4   means it has robust capabilities to deliver the right message to the right customer at the

5   right time.

6   This capability is essential because customers want to hear from their utility in

7   helpful, relevant ways. They're comparing their utility to companies like Amazon, Wal-

8   Mart, their banks and mobile phone providers that offer standout customer experiences

9   not yet widely found in the electric utility industry. The Company has an opportunity to

10   measure up because they want to learn about electricity-related topics, such as energy

11   efficiency, from someone they trust in that space – their utility.

12   What specifically do customers want to hear? They want to know about the

13   Company's plans for reliable, sustainable energy delivery. They want notifications when

14   their bills are due. They want alerts when payment has been received. They want to know

15   how severe weather might impact their service – and how to stay safe during that event.

16   They want information about programs and services that help them save money. They

17   want the tools that help them make informed decisions about their energy usage.

18   But customers don't want that information randomly – or all at once. Every

19   customer doesn't want that information delivered the same way. And they want to

20   manage the depth and nature of their relationship with their utility.

21   To meet customer expectations, the Company will deliver the information

22   customers want along three dimensions: content type, audience and timeliness.

First, there are the types of content the Company will deliver. There are four broad categories:

- Account status (e.g., bills due, payment received, enrollment in automatic payments)

- Critical events (e.g., impending severe weather, emergence of scams)

- Educational content (e.g., variety of rate plans available, safety tips, energy-saving best practices)

- Marketing content (e.g., availability of energy-efficiency rebates and programs, availability of community solar and other renewables offerings)

Second, there is the type of customer or audience who will receive the information. These systems allow the Company to target and nuance information for specific customer segments, so the messages they receive are personalized and apply to them specifically. This is determined by such attributes as:

- Customer type (business vs. residential) – The information business customers expect from differs from what residential customers expect. Further, not all programs and account options are available to both customer groups.

- Geography – The Company covers a large geography. Scams and weather events don't impact everyone. Rate jurisdictions and applicable rates vary. What is relevant to people living in St. Joseph, Mo., is not always relevant to businesses in Sedalia, Mo.

- Communities – Suburban, rural and urban customers do not always need or desire the same information at the same level of depth or tone.

1   • Additional demographics – Whether people rent an apartment or own a

2   home, whether they are a new or long-time customer, whether they prefer

3   to interact with the Company digitally, over the phone or in person –

4   different customer needs and behaviors manifest themselves in these.

5   The third dimension along which the Company will deliver information customers

6   want, is timeliness. Eloqua can send information to customers timed to coincide with

7   actions they've taken or experiences they've had with the Company. Did they recently

8   start service? Are they facing a high bill? Have they investigated a rebate program but not

9   followed through? Were they looking for information on the Company's website, but

10   appear, based on click behavior, not to have found it?

11   In each of those circumstances (and many others), the Company has conducted

12   research that indicates what customers expect to hear in that moment and what messages

13   they want to hear. A customer who just started service is responsive to information about

14   how to sign up for My Account access, if they didn't already, what to expect with their

15   first bill, and other tips that are helpful during the time of settling into a new home. A

16   customer facing an unexpectedly high energy bill, for example, will be much more

17   interested in tips, tools and programs to help them manage their energy usage – as

18   opposed to learning about electrical safety tips.

19 **Q: Does Eloqua achieve these customer experience benefits by itself or are there other**

20   **systems it is connected to?**

21 A: No. First, Eloqua also has a direct integration with Customer Care and Billing (CC&B)

22   that allows it to send transactional notifications to the right customers, at the right time in

23   the right communications channel. I described this earlier in my testimony.

1   Eloqua is also supported by a CRM, or customer relationship management

2   system. As part of this initiative, the Company also implemented a CRM called Oracle

3   Sales Cloud. This is standard practice. Companies that have marketing automation

4   platforms like Eloqua also have CRMs like Oracle Sales Cloud. And, the Company is

5   leveraging the standard, out-of-the-box integration between these two specific systems.

6 **Q: What does a CRM like Oracle Sales Cloud do and what customer benefits does it**

7 **generate?**

8 A: Oracle Sales Cloud helps the Company create more personalized customer interactions

9   by centralizing the data that informs those interactions. Eloqua is the engine that delivers

10   interaction; Sales Cloud is the fuel.

11   To meet customer expectations by delivering information they want along the

12   three dimensions I discussed earlier – content type, audience and timeliness – various

13   pieces of data are required. These data are generated from multiple systems and processes

14   across the company.

15   For example, the Company currently distributes what's known as a Welcome

16   Series – a series of 5 emails spaced roughly 30 days apart over 120 days. These series of

17   emails are becoming more commonplace in the utility industry because they make

18   customers aware of options and programs available to them for their new account, which

19   increases their satisfaction. The current Welcome Series is basic, due to the limitations of

20   the legacy systems for distributing messages and the lack of centralization of data that

21   would allow the messages to be more personalized. Opportunities to be more helpful to

22   customers are left unaddressed because of these limitations. Going forward, the Company

23   will be able to deliver a more customized, personalized Welcome Series to customers.

1   From a marketing perspective, the combination of Eloqua and Sales Cloud will

2   allow the Company to scale its marketing efforts that have proven ability to reach

3   customers, engage them, secure their participation in energy efficiency programs and

4   increase their satisfaction. The Company spent several years proving the case for more

5   targeted marketing communications by creating smaller, one-time outreach campaigns

6   with manual effort. However, these efforts have not been able to be achieved at scale

7   because of the lack of automation, resulting in manual matching and merging of data

8   sources that has been necessary to achieve this. What used to take several weeks of

9   multiple staff people's time to create, can be created in less than one day using Eloqua

10   and Sales Cloud.

11   But this is just the first step. The information gathered by these systems will allow

12   the Company to synthesize customer data, to test various scenarios, refine the messaging

13   and approach, and meet evolving customer expectations. What customers want from their

14   utility will change over time. Based on what will be learned about customers and their

15   behaviors, the Company can meet those expectations more effectively.

16   **Q:**   **Are there other benefits Oracle Sales Cloud provides?**

17   A: Yes. Another capability of CRM systems like Oracle Sales Cloud is that they provide a

18   platform to track and plan face-to-face and other offline interactions with multiple

19   contacts associated with a customer account, which is particularly important and

20   applicable to large business customers, including cities and municipalities. This is

21   important because Customer Care and Billing (CC&B) is a system that tracks only the

22   billing contacts for customer accounts. Because its critical functions are facilitating

23   traditional residential call center interactions and billing, it is not optimized to store

1		ancillary but important information about those customers, such as demographics and
2		digital interaction histories. It's also not optimized to track additional account contacts
3		such as facility managers who, in the case of large customers, don't process and pay the
4		bill, but do manage their facilities and make service and energy efficiency decisions.
5		Energy Consultants and Community Managers on my team are responsible for
6		interfacing with these contacts day-to-day. They need a centralized platform to capture,
7		store and update contact information for individuals CC&B considers ancillary, and the
8		ability to track their interactions with these individuals so a better customer experience
9		can be delivered. The Sales Cloud platform enables this information to be shared and
10		leveraged within my team, but importantly, it also provides a way this information can be
11		shared more broadly across the Company – such as with the traditional call center --
12		when the Company decides it is ready to enable that functionality.
13	**Q:**	**Why did the Company decide to take on these customer experience projects now,**
14		**alongside the Customer Care & Billing (CC&B), Customer Self-Service (CSS) and**
15		**Meter Data Management (MDM) implementations?**
16	A:	There are two reasons.
17		First, as I explained earlier, the Company's current delivery mechanisms for
18		transactional emails and text messages were built upon legacy ColdFusion applications.
19		Those applications are not compatible with Oracle Customer Care and Billing (CC&B) or
20		Customer Self-Service (CSS). A replacement structure for sending transactional emails
21		and texts had to be identified and implemented. The Company chose to meet this
22		requirement with a set of systems that unlock additional value and benefit for customers.

1   Had the Company waited for a future timeframe, two undesirable situations would

2   have been created. First, the customer benefits that will be realized now would have been

3   delayed years into the future. Second, the development and data integration work

4   required to implement Eloqua and Sales Cloud would have been greater after a completed

5   CC&B and CSS than it is now. This is because when a company is installing business-

6   critical, enterprise systems that makeover major swaths of business process and

7   operational functions, a unique window of opportunity for efficiency is available to create

8   integrations with other systems, such as Eloqua and Sales Cloud. In other words, if

9   you're renovating a house and you already have the walls open to replace your electrical

10   and plumbing, you're also going to stub the additional bathroom you've needed at the

11   same time, instead of later re-opening the walls again. The bathroom is stubbed and it can

12   be further built out during the coming months and years.

13   **Q: Does that conclude your testimony?**

14   A: Yes, it does.

BEFORE THE PUBLIC SERVICE COMMISSION
OF THE STATE OF MISSOURI

In the Matter of Kansas City Power & Light)
Company's Request for Authority to Implement) Case No. ER-2018-0145
A General Rate Increase for Electric Service)

AFFIDAVIT OF CHARLES A. CAISLEY
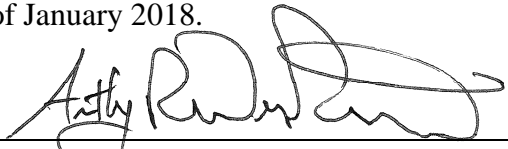
STATE OF MISSOURI)
) ss
COUNTY OF JACKSON)

Charles A. Caisley, being first duly sworn on his oath, states:

1.   My name is Charles A. Caisley. I work in Kansas City, Missouri, and I am employed by Kansas City Power & Light Company as Vice President – Marketing and Public Affairs.

2.   Attached hereto and made a part hereof for all purposes is my Direct Testimony on behalf of Kansas City Power & Light Company consisting of ___thirty-seven___ (37) pages, having been prepared in written form for introduction into evidence in the above-captioned docket.

3.   I have knowledge of the matters set forth therein. I hereby swear and affirm that my answers contained in the attached testimony to the questions therein propounded, including any attachments thereto, are true and accurate to the best of my knowledge, information and belief.

_____
Charles A. Caisley

Subscribed and sworn before me this 29th day of January 2018.

_____
Notary Public

My commission expires: __4/26/2021__