



**Ameren Illinois
Advanced Metering Infrastructure (AMI)
Annual Update
April 2021**

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Introduction

In accordance with the requirements of Public Acts 97-616 and 97-646, Ameren Illinois Company (Ameren Illinois) has prepared this Advanced Metering Infrastructure (AMI) annual report to outline expenditures and accomplishments achieved through December 2018. Specifically, Section 16-108.6(e) of the Public Utilities Act (Act) requires:

(e) On April 1 of each year beginning in 2013 and after consultation with the Smart Grid Advisory Council, each participating utility shall submit a report regarding the progress it has made toward completing implementation of its AMI Plan. This report shall:

- (1) Describe the AMI investments made during the prior 12 months and the AMI investments planned to be made in the following 12 months;
- (2) Provide sufficient detail to determine the utility's progress in meeting the metrics and milestones identified by the utility in its AMI Plan; and
- (3) Identify any updates to the AMI Plan.

Within 21 days after the utility files its annual report, the Commission shall have authority, either upon complaint or its own initiative, but with reasonable notice, to enter upon an investigation regarding the utility's progress in implementing the AMI Plan as described in paragraph (1) of this subsection (e). If the Commission finds, after notice and hearing, that the participating utility's progress in implementing the AMI Plan is materially deficient for the given plan year, then the Commission shall issue an order requiring the participating utility to devise a corrective action plan, subject to Commission approval and oversight, to bring implementation back on schedule consistent with the AMI Plan. The Commission's order must be entered within 90 days after the utility files its annual report. If the Commission does not initiate an investigation within 21 days after the utility files its annual report, then the filing shall be deemed accepted by the Commission. The utility shall not be required to suspend implementation of its AMI Plan during any Commission investigation.

In September 2016, the Illinois Commerce Commission ordered that Ameren Illinois' revised Smart Grid Advanced Metering Infrastructure Deployment plan to accelerate and expand its AMI deployment to 100% of its customers by 2019 was approved without modification.

The report also provides a summary of the forecasted expenditures and goals for 2012 through 2019, an update on Consumer Education and Communications, AMI metric requirements, and AMI tracking mechanisms.

¹Also, as directed in Illinois Commerce Commission Docket 14-0555, Ameren Illinois provides a calculation of reduction in Greenhouse Gases associated with its AMI deployment.

The 2021 Annual Update will serve as the final report for the Ameren Illinois AMI Deployment. Ameren Illinois will seek final acceptance from the Commission for deployment completion.

Consultation with the Smart Grid Advisory Council (SGAC)


As identified in the Introduction, Ameren Illinois presented its Advanced Metering Infrastructure Update on March 25, 2021 via videoconference to the Illinois Commerce Commission office. SGAC members present were the following:

- Jim Zolnierek
- Mark Laufenberg

¹ The 2018 Greenhouse Gas calculation has not been updated due to the unavailability of specific data from MISO. Inquiries have been made to retrieve the data.

AMI Program Implementation Strategy

The four stages below summarize Ameren Illinois' high-level plan for implementing information technology hardware, software applications, and business processes to provide accurate and timely billing, remote connect/disconnect functionality and customer access to usage information. Ameren Illinois completed the delivery of its core AMI functionality in late 2015.

Stage 0	Stage 1	Stage 2	Stage 3
Install foundational meter data management system and AMI system	Process and Bill Residential and Commercial/Industrial customers	Upgrade processes and system to support remote connect/disconnect	Peak Time Rewards Program
Prepare systems and processes for installation of 2-way communication network	Integrate AMI and MDM systems and prepare for billing Transfer AMI interval data to Retail Energy Suppliers	Revenue Protection Analytics	Event processing such as outage notification
Manage Asset Information	Customer Web Portal 	Provide Non Billing Interval Data to RES	
Q2 2014 - Complete ✓	Q4 2014 – Complete ✓	Q2 2015 – Complete ✓	Q4 2015– Complete ✓

Subsequently, Ameren Illinois embarked on adding additional functionality tied to the AMI solution. The additional functionality was completed in 2016 and 2017.

2016 Release #1	2016 Release #2	2017 Release #1	2017 Release #2
Manual Registration of Home Area Network (HAN) Devices	Automated Registration of HAN Devices	Provide Bill Quality Interval Data to Retail Electric Suppliers	Residential Only
Q1 2016 ✓	Q2 2016 ✓	Q2 2017 ✓	Q3 2017 ✓

2019 AMI Program Accomplishments

- Achieved 2019 AMI Electric Meter Deployment Goals
- Delivered 2019 Route Conversion to AMI

2020 AMI Program Accomplishments

- Tested and Enhanced AMI Architecture for Cybersecurity
- Leveraged AMI for Voltage Optimization Operations
- Enhanced and Distributed Customer, Employee, and Stakeholder AMI Communications

2019 AMI Program Accomplishments

Achieved 2019 AMI Electric Device Deployment Goals*

Ameren Illinois met the 2019 targets outlined in ICC Docket 12-0244 Re-Opening for electric meters as seen in the table below:

	2019 Cumulative Total Commitment	2019 Cumulative Total Installed since 2014	Variance
AMI Electric Meters	1,244,865	1,242,017	(2,848)

The variance for electric meter installs are due to two reasons. There were a number of customers who wanted to opt out of the AMI technology. These Non-standard metering customers were granted the right to do so through the stipulation we offered as a part of the AMI program. The remainder of the install variance was due to access issues. Ameren Illinois was waiting on customers to remedy unsafe conditions or provide access to the premise for the install.

Achieved Planned Route Conversion to AMI*

Ameren Illinois' goal for 2019 was to cutover 684 routes in 7 different operating centers.

Since the beginning of deployment in mid 2014 through December 31, 2019, Ameren Illinois has cutover 1,242,017 electric meters to full AMI functionality.

2019 Route Cutover		
Operating Center	Division	Total Routes
Eastern	1	96
Pekin	1	91
Alton	5	123
Mattoon	3	123
Paris	1	59
Carbondale	6	113
Springfield	3	79
	Total	684

**Final Deployment Metrics*

2020 AMI Program Accomplishments

Realized Operational Benefits from Data Analytics

Ameren Illinois has continued to leverage its Third Party Software As A Service data analytics vendor to realize operational savings. Below is a chart depicting the savings realized for 2020.

2020 BENEFITS/COST SAVINGS	
Reduction of Nuisance Truck Rolls	(\$66,710)*
Reduced Back Office Work	\$272,841
Faster ID of Dead Meters	\$511,287
Theft Detection and Reduction	(\$171,595)*
Total	\$545,823

2020 Savings Attributed to All Analytics Leads
**Impacted by ICC COVID customer moratoriums*

Below is a chart depicting the tests that are currently in place utilizing the data from our AMI solution:

Service Type	Lead Name	Automatic Process	Brief Description
Electric/*Gas	Dead on Arrival *Exchange/New Install	Service Order Creation	Lead identifies meters that have been installed and have not communicated for 45 days
Electric/Gas	Irregular Use Work Item	Office Review	Reviews the Irregular Use Work Items to determine if the Irregular use code is valid or should be changed to normal use
Electric	Momentary Outages	Office Review	AMI multiple outages detected in a day leading to connection issues
Electric/Gas	New Meter Health	Service Order Creation	Identifies meters that have been installed and begin registering and then stop
Electric	No consumption 6v1c	Office Review/ Service Order Creation	Stuck meter review- if there has been no consumption the meter is sent out to be investigated
Gas	Proactive Stuck meter	Service Order Creation	Identifies potential stuck meters in the first 30-45 days instead of waiting for 90 days
Electric/Gas	Stuck meter test	Office Review/ Service Order Creation	Stuck meter review lead identifies meters that are slowing and potentially not stuck and voids the Work Item so no order is created.
Electric/Gas	Zero Use Work Item	Office Review	Reviews the Work Item to determine if the Zero use code is valid or should be changed to normal use
Electric	consecGap	Service Order Creation	Identifies gaps in service that potential may indicate theft at the meter
Gas	consecGap	N/A	Identifies gaps in service that potentially may indicate theft at the meter

Electric	consecStatic	Service Order Creation	Identifies static at the meter that potentially may indicate theft at the meter
Gas	consecStatic	N/A	Identifies static at the meter that potentially may indicate theft at the meter
Electric/Gas	Cut with Consumption	Service Order Creation	Consumption registering on a meter that is coded cut for non-pay
Gas	Inactive with Consumption	N/A	Consumption registering on a meter that is coded inactive
Electric	Inactive with Consumption 200	Service Order Creation	Consumption registering over 200 KWH on a meter that is coded inactive
Electric	Long Term No Consumption 400	Service Order Creation	Consumption registering over 400 KWH on a meter that is coded inactive
Gas	Long Term No Consumption	N/A	Consumption registering on a meter that is coded inactive
Electric	Meter Bypass	Service Order Creation	identifies potential meter bypass

Continued the Peak Time Rewards Program

Ameren Illinois gathered the enrollment data from our Peak Time Rewards enrollment effort and studied the effective amount of demand response Ameren Illinois could expect from enrolled customers. Ameren Illinois bid the demand response into the MISO capacity market in the September 2020 auction.

Ameren Illinois' Peak Time Rewards (PTR) tariff was effective June 1, 2018, and is being managed by Elevate Energy. Enrollment for the 2020 MISO planning year began October 1, 2019 and ended March 1, 2020. Customers who enrolled after March 1 were placed on a waiting list. Below are some statistics of the program:

- **122,500 registered participants as of March 1, 2020 deadline**
 - A waiting list for additional participants allowed new customers to join when another account dropped off
- **15.9 MW of capacity offered to MISO and cleared in the auction**
 - Includes reduction in losses and reserves made possible by our customers' load reduction
- **MISO capacity auction in Zone 4 cleared at \$5.00/MW-Day for 2020/2021 Plan Year**
 - Increase compared to the price of \$2.99/MW-Day for 2019/2020 Plan Year
- **Total program funding for 2020 = 15.9 MW * 365 Days * \$5.00/MW-Day**
 - \$29,018 received from MISO on settlement statements across the year
- **Customer credit of \$0.12/kwh of load reduction**
 - In the case of an emergency event initiated by MISO, any credits paid out to customers would be further added to the budget balance deficit into the next program year

Tested AMI Architecture for Cybersecurity

In 2020, Ameren performed two third-party penetration tests of the Ameren Illinois Advanced Metering Infrastructure (AMI) solution. These assessments were executed from the perspective of an external threat that has access on the corporate network and the other test was performed on the field network standards based stack collector. During this penetration effort, the Incident Response Team was engaged and responsive in detecting and preventing simulated attacks from the third-party contractor. Ameren Cybersecurity directly supported advanced endpoint security, which included whitelisting and Automated Threat Neutralization (application and change control) via Host Intrusion Prevention System (HIPS) to detect and alert Ameren IT of any suspicious events within the Ameren IT environments. In addition, numerous enhancements were made in 2020 to improve endpoint security and segmentation with host-based firewalls. These

investments in enhanced capabilities help reduce the attack surface and compliment Ameren's overall Cybersecurity posture in both preventing and detecting unauthorized access and other malicious events targeting Ameren's corporate network, assets, and endpoints.

Leveraged AMI for Voltage Optimization Operations

In 2020, Ameren Illinois continued the Over the Air (OTA) meter reprogramming effort of AMI Meters to make available 15 minute voltage measurement capabilities, amp, and temperature measurements, voltage sag/swell data, and ability for On Demand voltage reads (ODRs). With the correct program installed on the meters, Ameren Illinois' Voltage Optimization (VO) vendor, DVI, is able to request ODRs from a select sample meter set. The voltage data received back through DVI's VO engine is used to recommend set points for voltage regulators and Load Tap Changers (LTCs). In addition, the VO engineering team reviews AMI data to find meters that are voltage outliers which if fixed, will improve VO performance. Last, the VO team utilizes hourly AMI voltage reads as part of their evaluation, measurement, and verification effort.

Executed Remote Service Orders

In 2020, Ameren Illinois had estimated performing 337,000 remote service orders using the AMI technology. Remote service orders for electric AMI include Cut Out/Cut In for customers behind on payment, Move In/Move Out for when a premise is unoccupied for more than 24 hours, Off Cycle Meter Reads for Same Day Move In/Move Out, and other Off Cycle Reads to address billing issues exceptions and customer issues. Ameren Illinois successfully performed 327,000 remote service orders, however, due to the impacts of Covid-19, collections orders were suspended at various times to accommodate related customer moratorium efforts, thereby reducing orders.

Developed Next Generation of AMI Communications: Incorporated AMI into Normal Flow of Communications

AMI has several capabilities that can benefit customer service and allow for more tailored support, products, programs and communication. The enhanced information it provides can be used to better analyze customer usage data and explore irregularities. If an issue is believed to be at play, the utility can notify the customer and work to identify the problem. Furthermore, customers can receive feedback about electricity price signals, their energy usage and their projected monthly bill, which can help them make more informed decisions about their consumption.

Incorporating the Benefits of Smart Meters:

In 2020, the opportunity to educate customers on ways to save and learn more about the benefits of smart meters was broader. We no longer need to isolate messages based on the progression of deployment. Our customer communication efforts roll into our customer engagement communication. We are now able to speak to smart meters more broadly and continue educating customers in mediums like TV, radio, etc. The example is illustrative on how we have begun incorporating smart meters into our overall customer communications.

Segmented radio or Terrestrial radio is useful in reaching customers to build awareness and educate because local radio stations differ from city to city. Using terrestrial radio, gave us access to a present consumer who is segmented and listening. Below is a script that illustrates an integration of smart meters with reliability:

*Ameren Illinois has been installing smart meters throughout the state.
While you probably don't notice a difference day-to-day, this advanced technology is giving us the power to do more.

These smart meters allow us to detect and isolate outages faster than ever before.
Plus, they give you more ways to help control your energy usage and save you money.
And as we continue to upgrade our network, your smart meter will continue to become...well...smarter.
Now that's Energy at Work.
Learn more at Ameren-Illinois-dot-com-slash-Reliability.*

Communication Channel(s):

Our smart meter communications focuses on the benefits of the technology, and the value it brings to our customers. It empowers customers to use the technology to better manage energy usage and costs while at home or on-the-go. Social media and other digital platforms like Google Display Network (GDN, You Tube, Hulu and Pinterest) are effective mediums for reaching customers online and while streaming content that matters to them.

To better deliver a meaningful message to our customers, we added a profile layer to our existing customer segmentation complementary of lifestyle and mindset. The allows us to build customer journeys based on program and enrollment behavior. The audience profiles are as follows:

- **Audience 1** - Busy is a way of life for on-the-go families and having lots to juggle is their normal. Small things that can save them time and give them even just a few more minutes of quality time together is a huge win. **Key Benefits Include: Control, Convenience, Energy Efficiency**
- **Audience 2** - Less extreme couponers and more brilliant budgeters. These engaged savers are regularly evaluating where their money is going and finding new opportunities to save. For them, a dollar saved means one more dollar that can go toward the things that really matter. **Key Benefits Include: Predictability > Control, Financial Savings, Energy Savings**
- **Audience 3** - Budgeting for this group isn't about saving for a rainy day, it's about making sure everything's covered from one paycheck to the next. Cutting energy costs for a struggling saver is simple: avoid being disconnected. **Key Benefits Include: Predictability > Control, Energy Savings**
- **Audience 4** - The unpredictable days of raising kids and putting out work fires is old news for our routine retirees. And while their retirement hobbies may differ, they can all agree on the value of a routine. They know just what they like and don't need any surprises messing with their well-established habits. **Key Benefits Include: Predictability > Control, Energy Savings**
- **Audience 5** - The green this group is saving doesn't have any dead presidents on the front. They're committed to doing whatever they can to help the environment regardless of whether there's an incentive attached. For a go greener, saving energy is about saving the world. **Key Benefits Include: Control, Convenient Conservation, Energy Savings**

Social Media and Other Digital Platforms:



Facebook

Peak Time Rewards

Impressions: 733K

IRate: 0.59%

GDN and GeoFencing



GDN

Audience 2, Message B

Impressions: 18.5M

CTR: 0.24%

Audience 5, Message B

Impressions: 15.6M

CTR: 0.31%

Geofencing

Audience 2, Message B

Impressions: 1.4M

CTR: 0.23%

Audience 5, Message B

Impressions: 1.2M

CTR: 0.23%

You Tube



Production:
Broadcast, :30 spots

In-Market Date:
11/2020 and 12/2020

Link:
https://youtu.be/jKx-Mrmx_1A

Third-party Communications:

Our work with Elevate Energy continues. This year the marketing efforts helped Ameren Illinois surpass the 120,000 enrollment mark. Each year, the enrollment for the Ameren Illinois Peak Time Rewards program increases even though the rewards or the bill credit fluctuate with the MISO capacity market. Customers continue to find value in the program.

Peak Time Rewards participants continue to be a key target audience for Power Smart Pricing. The May 2020 promotion conducted with the Ameren Illinois Energy Efficiency team yielded better enrollment results with 1,220 new enrollments in Power Smart Pricing. This is the first time that a smart thermostat was offered to customers free of charge and used as an incentive to enroll in Power Smart Pricing.

The table below compares the email campaign's overall delivery rate, unique open rates, unique click through rates, and click-to-open-rate to the utility industry benchmarks established in the Questline 2019 Annual Benchmark Report. The delivery was slightly below industry benchmarks, but not dramatically so.

airz Email

The email campaign graphic for airz features the Ameren Illinois logo at the top left. The main headline reads "TWO GREAT PROGRAMS THAT HELP YOU SAVE" in bold blue letters. Below this, it says "Peak Time Rewards ACTIVATED" and "Power Smart Pricing ACTIVATED" in green boxes, followed by "ENROLL TODAY!" in a green button. The graphic includes an image of two children in superhero costumes. Below the headline, there is a paragraph of text starting with "<First Name>, you're already on Peak Time Rewards where you can earn bill credits and help your community by shifting energy use away from high-demand times." This is followed by another paragraph about saving year-round with Power Smart Pricing. A green "Enroll Now" button is prominently displayed. Below this, a section titled "Plus, for a limited time, you can receive a FREE Greenlite airz Smart Thermostat when you enroll!" is shown with an image of the thermostat. The bottom section, titled "HOW POWER SMART PRICING WORKS", lists three bullet points: "You'll pay the hourly market price instead of one flat rate. Hourly prices were cheaper than the flat rate 91% of the time.", "We'll send you alerts when hourly prices are high so you can reduce your energy use.", and "Maximize your savings when you shift energy use, like your washer, to cheaper hours." It also includes a "Thank you for enrolling and claiming your FREE smart thermostat. Find more ways to save and helpful tips at our Energy Savings Center." and a final "Enroll Now" button. At the very bottom, it says "Together, Power Smart Pricing participants have saved more than \$12 million on their energy bills!" and "Visit Amerenillinois.com/PSP or call 1.877.655.6028".

A, B, Control Emails

The email campaign graphic for A, B, Control Emails features the Ameren Illinois logo at the top left. The main headline reads "TWO GREAT PROGRAMS THAT HELP YOU SAVE" in bold blue letters. Below this, it says "Peak Time Rewards ACTIVATED" and "Power Smart Pricing ACTIVATED" in green boxes, followed by "ENROLL TODAY!" in a green button. The graphic includes an image of two children in superhero costumes. Below the headline, there is a paragraph of text starting with "<First Name>, you're already on Peak Time Rewards where you can earn bill credits and help your community by shifting energy use away from high-demand times." This is followed by another paragraph about saving year-round with Power Smart Pricing. A green "Enroll Now" button is prominently displayed. Below this, a section titled "HOW IT WORKS" lists three bullet points: "You'll pay the hourly market price instead of one flat rate. Hourly prices were cheaper than the flat rate 91% of the time.", "We'll send you alerts when hourly prices are high so you can reduce your energy use.", and "Maximize your savings when you shift energy use, like your washer, to cheaper hours." It also includes a "Looking for more ways to save? Visit our Energy Savings Center for more helpful tips." and a final "Enroll Now" button. At the very bottom, it says "Together, Power Smart Pricing participants have saved more than \$12 million on their energy bills!" and "Visit Amerenillinois.com/PSP or call 1.877.655.6028".

Direct Mailer

The direct mailer graphic features the Ameren Illinois logo at the top left. The main headline reads "TWO GREAT PROGRAMS THAT HELP YOU SAVE" in bold blue letters. Below this, it says "Peak Time Rewards ACTIVATED" and "Power Smart Pricing ACTIVATED" in green boxes, followed by "ENROLL TODAY!" in a green button. The graphic includes an image of two children in superhero costumes. Below the headline, there is a paragraph of text starting with "<First Name>, you're already on Peak Time Rewards where you can earn bill credits and help your community by shifting energy use away from high-demand times." This is followed by another paragraph about saving year-round with Power Smart Pricing. A green "Enroll Now" button is prominently displayed. Below this, a section titled "HOW IT WORKS" lists three bullet points: "You'll pay the hourly market price instead of one flat rate.", "We'll send you alerts when hourly prices are high so you can reduce your energy use.", and "Maximize your savings when you shift energy use, like your washer, to cheaper hours." It also includes a "Learn more and enroll today" section with the website "AMERENILLINOIS.COM/PSP" and the phone number "877.655.6028". At the very bottom, it says "Together, Power Smart Pricing participants have saved over \$12 million on their energy bills!" and "Visit Amerenillinois.com/PSP or call 1.877.655.6028".

Metric	2020 Gateway	Benchmarks
Delivery Rate	97.4%*	98.8%
Unique Open Rate	45.6%*	24.6%
Unique CTR	9.5%*	1.5%
CTOR	20.8%*	6.2%

**Represents totals from Email A, Email B, and airz. Email metrics for the Control email are incomplete due to an unknown error with the email sending platform.*

Media Partnerships to Support Customer Education:

In the early days of AMI Deployment, educating media about the value that smart meter brings was key. Over the 5 year meter deployment, Ameren Illinois delivered a message that AMI was going to be transformational, and it was part of our overall infrastructure improvements. The last year of deployment 2019 and the subsequent year of 2020, there has been little to no media attention given to the concerns of privacy, health or safety related to smart metering.

ISEIF Grantees:

The Illinois Science and Energy Innovation Foundation continues to support regional non profit organizations with grant dollars to help:

- Citizens Utility Board - They continue traditional outreach focused on energy education in conjunction with a utility clinic. This year virtual events were held called, Coffee with CUB.
- Elevate Energy – Virtual events were held offering greater access to community resource coordinators.
- Faith in Place – Virtual community outreach events to use and engage Green Teams at Houses of Worship.
- Kindling Group- Producing docuseries that highlight the green economy.
- Midwest Energy Efficiency Alliance – Continue to support realtor training as virtual lunch and learns using their smart grid training module and toolkit.

Future State: We continue to share the many ways that smart meters empowers customers to make positive changes to the way they use energy. It's about lifestyle, comfort and efficient use of energy to save money and the environment. In 2021, we are beginning to incorporate the benefits of smart meter into social media venues like Pinterest. Ameren Illinois does not have a Pinterest page. Through a partnership with Rural King, we are able to reach customers with a DIY, savings mindset.



It's a smaller piece of the pie when you think about the larger tactics we have at play in the market (such as broadcast television and YouTube campaigns), but it's a platform where the audience is in a very unique savings and DIY mindset which could make them more responsive to messages to help them save.

Below are a few performance metrics that show our enthusiasm for using this platform:

- While we did not see any indication that COVID-19 impacted performance negatively across any of our campaigns, some tactics, such as Pinterest, increased in performance in the early months of COVID-19. This makes sense as saving energy (and therefore, saving money) is top of mind during economic uncertainty.
- Pinterest has a strong interaction rate (IRate) of 3.09% at year-end 2020.
- We gained an additional 2,776,646 customer impressions via Pinterest by year-end 2020.
- The account is improving year over year as we increase brand equity on the platform and find ways to optimize our content for the audience. Pinterest use is up in 2020, and based on the estimated outlook of Pinterest users in the U.S. through 2022 via Statista, the platform is growing, and trends show it will continue to grow.
- 52% of millennials are using Pinterest. Millennials currently buying homes (Forbes reports they are the largest share of home buyers for the last 5 years), this is an ideal place to capture those who are looking for ways to make improvements to their homes. This could also capture a new group of Ameren Illinois customers who are first-time home buyers and/or new movers, and could be looking for ways to lower higher utility bills in the larger space.

Electric Capital Expenditures Actuals

Overall, the Ameren Illinois variance for 2020 was primarily due to completing the ICC S.B. 1652 AMI requirement for Interoperability.

Category	Budget	2020 Actual Costs	Variance
AMI Meters	\$0.0	\$7.6	(\$7.6)
Communication Network	\$0.1	\$2.0	(\$1.9)
Information Technology	\$3.7	\$0.0	\$3.7
Program Management	\$0.0	\$0.3	(\$0.3)
AMI Operations	<u>\$0.0</u>	<u>\$0.0</u>	<u>\$0.0</u>
Total	\$3.8	\$10.0	(\$6.2)
*Filed in ICC Docket 12-0244 Re-Opening			

Electric AMI	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	Total
100% Electric Allocated Budget*	\$2.9	\$18.1	\$32.9	\$46.1	\$37.4	\$60.0	\$56.5	\$47.9	\$3.8	\$0.1	\$305.7
100% Electric Allocated Actuals / Forecast	<u>\$2.9</u>	<u>\$18.1</u>	<u>\$32.9</u>	<u>\$46.1</u>	<u>\$37.9</u>	<u>\$66.5</u>	<u>\$56.2</u>	<u>\$34.8</u>	<u>\$10.0</u>	<u>\$0.1</u>	<u>\$305.7</u>
Difference	\$0.0	\$0.0	\$0.0	\$0.0	(\$0.5)	(\$6.5)	\$0.3	\$13.1	(\$6.2)	\$0.0	\$0.0
Filed in ICC Docket 12-0244 Re-Opening											

EIMA Metrics

As outlined in the MAP-M metric plan, the following are the results for the 2020 year end AMI related EIMA metrics:

1. Estimated bills: 66,462
2. Consumption on inactive meters: 2,294,681 kwh
3. Uncollectibles: \$20,029,448

Ameren Illinois satisfied the 2020 performance year goals for all three metrics. These metrics will be explained in more detail in Ameren Illinois' Modernization Action Plan Multi-Year Performance Metrics 2020 Annual Report to be filed pursuant to 220 ILCS 5/16-108.5(f).

AMI Tracking Mechanisms - 2019

In its approved AMI Plan, Ameren Illinois proposed to track the following information. All information is as of December 31, 2020.

1. Percent of support system installed
100% of the AMI support systems and applications are installed
2. Percent of 2-way network installed
98% of the two way network was installed
3. Number and percent of AMI meters installed
1,242,017 meters installed, 100% of planned meter installations

AMI Tracking Mechanisms - 2020

4. Number of customers able to access the Web Portal and Web Portal usage statistics
1.2M residential customers are able to access the web portal
677,774 AMI, AMR, and Legacy customers accessed the web portal in 2020
5. Number of customers eligible for peak time rebate tariff in 2020
919,515
6. Number of customers signed up for peak time rebate tariff in 2020
121,520
7. Number of customers on PSP, RTP, or other real time rates
Number of customers on Ameren Illinois' Power Smart Pricing (PSP) Program = 13,465
Number of customers on an Ameren Illinois' Real Time Pricing (RTP) Program = 959

In addition to the above tracking mechanisms, Ameren Illinois has voluntarily agreed to track additional items. As stated, the work and activities described below are a voluntary undertaking on the part of Ameren Illinois. Recognizing changing circumstances that may affect the propriety of tracking the subject information, or where provisions of the enabling statutes are no longer operative, Ameren Illinois reserves the right to modify, delete, or add to any of the provisions described below, and the right to terminate any or all of the undertakings.

1. All data is as of December 31, 2020 unless otherwise stated. The number of residential and small commercial customers taking service from Ameren Illinois sponsored time variant or dynamic pricing tariffs, segmented by residential and small commercial customers, and by the specific dynamic or time variant rate. A residential customer is defined as a customer taking service under DS1. A small commercial customer is defined as a DS2 customer with usage of 15,000 kWh or less annually for the prior calendar year.

Type of Tariff	# of Accounts
Residential – Power Smart Pricing	13,465
Residential – Ameren Illinois RTP1	154
Small Commercial - RTP	204
Total Residential and Small Commercial RTP Accts	13,823
Other Non-residential RTP	601
Total Hourly Price Accts	14,424

2. The estimated peak demand reduction in MW resulting from customer participation in Ameren Illinois' Peak Time Rebate Program was reduced by 15.9 MWs. Estimated peak demand reduction is defined as the average estimated load reduction during the previous calendar year's Peak Time Rebate curtailment events.
3. The following by customer class (DS1, DS2-Small Commercial, DS2-All Other, DS3, DS4):
 - a. Number of AMI meters installed: 1,071,982

Customer Class	Meters
DS1	945,128
DS2 – Other	47,499
DS2 – Small Commercial	76,032
DS3	2,001
DS4	451
DS5	345
Other (Test Meters)	109
No Active Customer	417
Total	1,071,982

- b. Number of AMI meters communicating through the AMI network and network accessed data used for billing.

Customer Class	Meters
DS1	937,353
DS2 – Other	50,531
DS2 – Small Commercial	71,297
DS3	1,868
DS4	435
DS5	342
No Active Customer	139
Other	105
Total	1,062,070

4. The number of AMI metered customers with a consumer device registered to receive information from the AMI meter. Ameren Illinois will also provide a list, by device type, of the consumer devices that have been certified as capable of receiving information from its AMI meters.

21 customers registered consumer devices to receive information from the AMI meter in 2020.

As applicable, the number of AMI metered customers who download data through the Green Button Initiative format a minimum of one time during the calendar year.

2,396 AMI customers downloaded their Green Button data in 2020

5. The number of AMI meters that are replaced prior to the end of their manufacturer expected 20-year useful life. The high level cause of the meter replacement will also be tracked in one of four categories – 1. Communication related, 2. Metrology related, 3. Remote switch related, 4. External physical damage not caused by the meter. Ameren Illinois will also note those internal meter malfunctions (categories 1 – 3 above) that cause a non-momentary disruption of service to the customer.

Failure Type	2014	2015	2016	2017	2018	2019	2020	Total
1.Communication	1	136	947	724	293	160	2,997	5,258
2. Metrology	6	29	179	113	175	12	2,553	3,067
3. Remote Disconnect	0	3	1	68	49	0	332	453
4. Damaged Meter	0	47	14	19	7,692	2	2,468	10,242
Total	7	215	1,141	924	8,209	174	8,350	19,020

6. Ameren Illinois will add the most current Part 466.140 Distributed Generation Annual Report as an attachment to its annual AMI Plan Update.

See Appendix 1.

7. Ameren Illinois will segment from the most current Part 466.140 Distributed Generation Annual Report those customers taking service on the Net Metering Tariff and add this document as an attachment to its annual AMI Plan Update.

See Appendix 2.

8. The total known distributed generation capacity in kW connected to the Ameren Illinois distribution system based on the Part 466.140 Distributed Generation Report and divide that capacity value by the total Ameren Illinois system peak demand.

The total known distributed generation capacity in kW connected to the Ameren Illinois distribution system is 150,956 kW of Ameren Illinois' peak demand during 2020 of 1,951 MW

9. The time required to connect distributed resources to the grid. The clock will start upon receipt of a complete application from the customer. An application is considered complete when all required documentation, information, application fees, etc. have been received and application can be forwarded to engineering. The clock will end when an appropriate Ameren Illinois electric meter is installed and / or appropriately programmed to accommodate the distributed resource.

See Appendix 3.

10. The number of formal ICC complaints, informal ICC complaints and other complaints related to AMI deployment, broken down by type of complaint and resolution.

From January 2020 through December 2020, there were 6 informal ICC complaints related to AMI.

Complaint		Resolution
1.	Customer states AMI meter causes problems and does not want it, but does not want to pay NSM fees.	AMI was installed 2/2019. Customer was advised NSM charges would be billed if they did not want AMI. AMI was NOT removed.
2.	Upset about AMI pole and antenna in front of his house.	Equipment was relocated.
3.	Complaint regarding NSM charges	Customer enrolled in NSM and being charged monthly.
4.	Customer paying NSM fees, but bill had been estimated 3 months in a row.	NSM fees were credited for months bill was estimated.
5.	Electronic interference from AMI meter.	Equipment in question not owned by AIC.
6.	Did not want meter exchanged to AMI. She is 91 and did not want anyone inside her home during the pandemic.	AIC will wait until pandemic is "over" to exchange meter.

There were no formal ICC complaints filed as a result of AMI.

11. The reduction in gasoline consumption from the reduction in manual meter reading miles, and converted to a reduction in greenhouse gas emissions based on formulas provided by CUB / ELPC / EDF.

There was no reduction in gasoline consumption for Ameren Illinois manual meter reading truck miles. 28,735 gallons were consumed from 2019. The increase in gasoline consumption converted to an addition in greenhouse gas emissions is 462,455 pounds of CO₂ or 255 metric tons of CO₂.

12. The annual combined load factor for all its AMI metered customers, and its entire system annual load factor. Annual load factor is defined as total consumption in MWH divided by the hourly peak demand at the time of system peak in MW multiplied by 8,760 hours per year.

The Ameren Illinois overall system annual load factor is 61%. For AMI metered customers in 2020 that had a full year's worth of AMI data (approximately 1 million service points), the load factor is 57%.

13. The number and percentage of 12 kV distribution circuits using data from AMI meters as part of a voltage/var control scheme.

There are 313 circuits (19.7%) 12kV/13.2kV distribution circuits using data from AMI meters as part of a voltage optimization scheme.

Ameren Illinois has not agreed to any additional tracking mechanisms at this time, but will continue to consider additional tracking mechanisms as appropriate in the future.

Appendix 1 – Part 466.140 Distributed Generation Annual Report

2021									
Annual Report of									
Ameren Illinois Company d/b/a Ameren Illinois									
Pursuant to Part 466.140									
of the 83 Illinois Administrative Code									
<=10 MVA Distributed Generation Annual Report									
Requests for Distributed Generation Interconnection									

Appendix 2 – Part 466.140 Distributed Generation Annual Report – Net Metering Only

2021								
Annual Report of								
Ameren Illinois Company d/b/a Ameren Illinois								
Requests for Distributed Generation Interconnection (Net Metering Customers Only)								
	2018-2019 Data		2019-2020 Data		2020-2021 Data			
	(as of 2-10-19)		(as of 2-10-20)		(as of 2-10-21)		Totals as of 2-10-21	
	<u>Completed</u>	<u>Under Review</u>	<u>Completed</u>	<u>Under Review</u>	<u>Completed</u>	<u>Under Review</u>	<u>Requests Received*</u>	
1) Requests Received	569	659	1561	604	2970	731	7982	
Level 1	513	293	1428	474	2862	655	6929	
Level 2	56	366	133	130	108	76	1053	
Level 3	0	0	0	0	0	0	0	
Level 4	0	0	0	0	0	0	0	
							<u>Requests Approved*</u>	
	<u>Customers</u>	<u>kW</u>	<u>Customers</u>	<u>kW</u>	<u>Customers</u>	<u>kW</u>	<u>Customers</u>	<u>kW</u>
2) Requests Approved	573	9155.4	1724	30073.0	2431	107200.5	5597	157488.6
Level 1:	517	3578.4	1591	15056.0	2185	19848.8	4986	44082.3
Solar	517	3578.4	1591	15056.0	2185	19848.8	4971	43998.5
Wind	0	0.0	0	0.0	0	0.0	11	54.5
Both	0	0.0	0	0.0	0	0.0	4	29.3
Level 2:	56	5577.0	133	15017.0	246	87351.7	611	113406.4
Solar	56	5577.0	133	15017.0	246	87351.7	603	113191.7
Wind	0	0.0	0	0.0	0	0.0	3	72.3
Both	0	0.0	0	0.0	0	0.0	5	142.4
Level 3:	0	0.0	0	0.0	0	0.0	0	0.0
Level 4:	0	0.0	0	0.0	0	0.0	0	0.0
							<u>Requests Denied*</u>	
	<u>Customers</u>	<u>kW</u>	<u>Customers</u>	<u>kW</u>	<u>Customers</u>	<u>kW</u>	<u>Customers</u>	<u>kW</u>
3) Requests Denied	0	0.0	0	0.0			0	0.0
Note:								
Level 1 = The new Level 1 threshold is 25 kVa and not 10 kVa – the threshold as of January 20, 2017, increased the Level 1 criteria to 25 kVa.								
This report includes generators <10KVA prior to that date, and <25KVA subsequent to that date.								
Level 2 = Lab certified interconnection equipment with nameplate capacity less than or equal to 2MVA.								
Level 3 = Distributed generation facility does not export power. Nameplate capacity is less than or equal to 50kVA if connected to area network or less than or equal to 10 MVA if connected to a radial distribution feeder.								
Level 4 = Nameplate capacity rating is less than or equal to 10 MVA and the distribution generating facility does not qualify for a Level 1, 2 or 3 review, or the distribution generating facility has been reviewed but not approved under a Level 1, 2 or 3 review.								
* - Total column reflects totals from the inception - Feb 10, 2012 to current.								

Appendix 3 – Time Required for Connection of Distributed Resources

2021											
Annual Report of											
Ameren Illinois Company d/b/a Ameren Illinois											
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***											
<u>Customer #</u>						<u>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</u>					
1						60					
2						345					
3						490					
1						20					
5						39					
6						72					
7						95					
8						435					
9						354					
10						231					
11						201					
12						47					
13						495					
14						495					
15						492					
16						276					
17						444					
18						163					
19						70					
20						224					
21						283					
22						77					
23						439					
24						439					
25						283					
26						232					
27						458					
28						458					
29						518					
30						4					
31						4					
32						132					
33						73					
34						50					
35						302					
36						159					
37						159					
38						171					
39						219					
40						70					
41						148					
42						551					
43						259					
44						126					
Assumptions:											
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)											
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)											
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.											
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)											
5. Time is represented in actual days, not business days.											
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.											

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois									
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***									
Customer #		Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days							
	45								161
	46								549
	47								549
	48								491
	49								468
	50								475
	51								606
	52								470
	53								280
	54								128
	55								85
	56								86
	57								532
	58								535
	59								520
	60								489
	61								545
	62								74
	63								575
	64								602
	65								427
	66								190
	67								189
	68								104
	69								560
	70								606
	71								559
	72								608
	73								567
	74								567
	75								615
	76								2
	77								552
	78								572
	79								0
	80								208
	81								565
	82								572
	83								575
	84								549
	85								549
	86								616
	87								575
	88								653
Assumptions:									
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)									
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)									
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.									
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)									
5. Time is represented in actual days, not business days.									
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.									

Appendix 3 – Time Required for Connection of Distributed Resources

2021									
Annual Report of									
Ameren Illinois Company d/b/a Ameren Illinois									
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***									
Customer #					Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days				
89									632
90									632
91									576
92									576
93									577
94									573
95									579
96									38
97									579
98									579
99									579
100									153
101									651
102									59
103									584
104									583
105									634
106									587
107									22
108									311
109									143
110									98
111									575
112									641
113									33
114									157
115									252
116									97
117									145
118									643
119									603
120									644
121									644
122									164
123									164
124									570
125									449
126									625
127									633
128									837
129									784
130									644
131									855
132									89
133									244
Assumptions:									
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)									
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)									
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.									
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)									
5. Time is represented in actual days, not business days.									
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.									

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
<u>Customer #</u>	<u>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</u>				
134					648
135					437
136					218
137					200
138					104
139					52
140					221
141					617
142					351
143					351
144					351
145					660
146					502
147					180
148					714
149					85
150					501
151					189
152					182
153					153
154					737
155					204
156					172
157					393
158					768
159					223
160					238
161					238
162					736
163					739
164					73
165					82
166					211
167					28
168					693
169					749
170					711
171					215
172					777
173					948
174					227
175					852
176					170
177					853
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.					
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)					
5. Time is represented in actual days, not business days.					
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.					

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
<div> <div>Customer #</div> <div>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</div> </div>												
178	88											
179	771											
180	676											
181	771											
182	136											
183	773											
184	181											
185	777											
186	867											
187	683											
188	683											
189	783											
190	785											
191	187											
192	786											
193	542											
194	164											
195	720											
196	794											
197	308											
198	857											
199	799											
200	82											
201	858											
202	887											
203	859											
204	800											
205	860											
206	898											
207	861											
208	301											
209	237											
210	303											
211	155											
212	155											
213	807											
214	809											
215	826											
216	323											
217	157											
218	128											
219	83											
220	281											
221	270											
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.												
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
5. Time is represented in actual days, not business days.												
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.												

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
<u>Customer #</u>	<u>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</u>				
222					883
223					814
224					106
225					13
226					435
227					372
228					91
229					844
230					96
231					335
232					110
233					147
234					109
235					521
236					70
237					297
238					39
239					371
240					843
241					523
242					844
243					302
244					218
245					787
246					609
247					18
248					20
249					14
250					151
251					23
252					182
253					47
254					96
255					182
256					77
257					182
258					74
259					26
260					104
261					34
262					71
263					20
264					68
265					14
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.					
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)					
5. Time is represented in actual days, not business days.					
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.					

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
		Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days										
Customer #												
	266											46
	267											100
	268											75
	269											46
	270											23
	271											122
	272											88
	273											23
	274											182
	275											90
	276											114
	277											64
	278											114
	279											147
	280											14
	281											27
	282											64
	283											106
	284											90
	285											64
	286											99
	287											30
	288											56
	289											23
	290											114
	291											51
	292											23
	293											91
	294											128
	295											32
	296											28
	297											30
	298											72
	299											134
	300											21
	301											13
	302											35
	303											34
	304											27
	305											17
	306											71
	307											13
	308											64
	309											82
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.												
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
5. Time is represented in actual days, not business days.												
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.												

2021					
Annual Report of					
Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
		Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days			
	Customer #				
	310				33
	311				75
	312				25
	313				64
	314				48
	315				35
	316				133
	317				127
	318				47
	319				68
	320				18
	321				121
	322				24
	323				24
	324				21
	325				40
	326				77
	327				35
	328				257
	329				51
	330				18
	331				90
	332				78
	333				52
	334				52
	335				52
	336				93
	337				71
	338				35
	339				39
	340				67
	341				65
	342				92
	343				144
	344				104
	345				74
	346				52
	347				32
	348				254
	349				111
	350				42
	351				189
	352				65
	353				120
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.					
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)					
5. Time is represented in actual days, not business days.					
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.					

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
<u>Customer #</u>	<u>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</u>				
354	52				
355	67				
356	35				
357	92				
358	34				
359	11				
360	10				
361	50				
362	89				
363	45				
364	49				
365	56				
366	118				
367	54				
368	47				
369	41				
370	49				
371	35				
372	25				
373	21				
374	152				
375	60				
376	132				
377	35				
378	40				
379	102				
380	17				
381	31				
382	82				
383	36				
384	139				
385	79				
386	31				
387	62				
388	7				
389	24				
390	175				
391	25				
392	52				
393	102				
394	49				
395	138				
396	63				
397	230				
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.					
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)					
5. Time is represented in actual days, not business days.					
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.					

Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
398												67
399												108
400												92
401												171
402												42
403												161
404												67
405												92
406												67
407												67
408												92
409												48
410												17
411												116
412												38
413												43
414												60
415												64
416												34
417												67
418												45
419												32
420												169
421												121
422												32
423												309
424												106
425												24
426												19
427												48
428												14
429												77
430												77
431												10
432												46
433												59
434												13
435												92
436												17
437												37
438												127
439												48
440												107
441												59
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Appendix 3 – Time Required for Connection of Distributed Resources

2021					
Annual Report of					
Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
Customer #	<u>Duration: Time from a Completed Application Until Energy Flow from Project to Grid (Live Date) in Actual Days</u>				
442	176				
443	115				
444	167				
445	57				
446	14				
447	79				
448	36				
449	37				
450	52				
451	69				
452	133				
453	265				
454	138				
455	132				
456	55				
457	59				
458	180				
459	35				
460	45				
461	257				
462	186				
463	189				
464	133				
465	36				
466	6				
467	11				
468	29				
469	95				
470	62				
471	75				
472	126				
473	49				
474	45				
475	58				
476	171				
477	27				
478	44				
479	27				
480	64				
481	49				
482	70				
483	5				
484	78				
485	133				
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
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2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
486												70
487												153
488												31
489												83
490												62
491												55
492												74
493												116
494												105
495												51
496												116
497												24
498												69
499												24
500												75
501												123
502												71
503												98
504												162
505												18
506												37
507												92
508												22
509												55
510												21
511												18
512												49
513												7
514												35
515												194
516												42
517												70
518												185
519												69
520												113
521												141
522												107
523												125
524												40
525												44
526												28
527												129
528												71
529												19
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Appendix 3 – Time Required for Connection of Distributed Resources

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois									
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***									
Customer #	Duration: Time from a Completed Application Until Energy Flow from Project to Grid (Live Date) in Actual Days								
530	145								
531	82								
532	40								
533	107								
534	62								
535	24								
536	69								
537	42								
538	42								
539	22								
540	99								
541	79								
542	34								
543	83								
544	56								
545	34								
546	120								
547	19								
548	135								
549	134								
550	62								
551	63								
552	120								
553	28								
554	222								
555	26								
556	64								
557	47								
558	145								
559	47								
560	29								
561	161								
562	76								
563	161								
564	218								
565	42								
566	180								
567	36								
568	23								
569	76								
570	19								
571	41								
572	64								
573	22								
Assumptions:									
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)									
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)									
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5. Time is represented in actual days, not business days.									
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.									

Appendix 3 – Time Required for Connection of Distributed Resources

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois									
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***									
Customer #		Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days							
	574								36
	575								146
	576								48
	577								37
	578								53
	579								83
	580								47
	581								17
	582								38
	583								52
	584								177
	585								120
	586								77
	587								30
	588								37
	589								89
	590								30
	591								194
	592								42
	593								91
	594								91
	595								159
	596								57
	597								128
	598								37
	599								82
	600								83
	601								16
	602								43
	603								70
	604								52
	605								82
	606								143
	607								54
	608								6
	609								35
	610								55
	611								38
	612								55
	613								44
	614								11
	615								145
	616								49
	617								45
Assumptions:									
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)									
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)									
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Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												

Appendix 3 – Time Required for Connection of Distributed Resources

2021											
Annual Report of											
Ameren Illinois Company d/b/a Ameren Illinois											
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***											
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days											
Customer #											
662											137
663											31
664											97
665											67
666											50
667											20
668											66
669											70
670											55
671											38
672											20
673											87
674											57
675											9
676											61
677											70
678											56
679											56
680											41
681											172
682											138
683											167
684											51
685											48
686											62
687											89
688											57
689											22
690											32
691											12
692											7
693											11
694											55
695											94
696											211
697											11
698											51
699											112
700											101
701											64
702											50
703											12
704											61
705											98
Assumptions:											
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)											
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)											
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2021					
Annual Report of					
Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
Customer #	Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days				
706	164				
707	38				
708	105				
709	15				
710	145				
711	63				
712	20				
713	63				
714	21				
715	87				
716	21				
717	131				
718	102				
719	99				
720	99				
721	74				
722	62				
723	57				
724	54				
725	54				
726	49				
727	39				
728	33				
729	21				
730	16				
731	29				
732	160				
733	148				
734	59				
735	118				
736	38				
737	165				
738	91				
739	74				
740	17				
741	63				
742	178				
743	186				
744	165				
745	97				
746	74				
747	6				
748	45				
749	34				
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
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5. Time is represented in actual days, not business days.					
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
						Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days						
Customer #												
750											41	
751											151	
752											27	
753											32	
754											68	
755											12	
756											71	
757											41	
758											12	
759											47	
760											71	
761											20	
762											55	
763											76	
764											96	
765											36	
766											8	
767											173	
768											62	
769											13	
770											72	
771											64	
772											138	
773											119	
774											20	
775											24	
776											64	
777											24	
778											41	
779											54	
780											143	
781											161	
782											43	
783											24	
784											13	
785											76	
786											8	
787											83	
788											29	
789											21	
790											148	
791											87	
792											111	
793											171	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
794												79
795												52
796												234
797												25
798												34
799												20
800												28
801												25
802												30
803												50
804												71
805												173
806												30
807												64
808												43
809												20
810												15
811												23
812												154
813												55
814												182
815												21
816												71
817												78
818												56
819												50
820												108
821												33
822												36
823												66
824												88
825												77
826												41
827												10
828												25
829												70
830												11
831												25
832												56
833												55
834												132
835												12
836												55
837												32
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of											
Ameren Illinois Company d/b/a Ameren Illinois											
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***											
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days											
Customer #											
838										183	
839										49	
840										60	
841										54	
842										54	
843										20	
844										15	
845										99	
846										85	
847										54	
848										49	
849										84	
850										50	
851										55	
852										37	
853										85	
854										86	
855										68	
856										76	
857										37	
858										55	
859										43	
860										22	
861										55	
862										56	
863										91	
864										101	
865										59	
866										94	
867										23	
868										39	
869										86	
870										28	
871										49	
872										39	
873										183	
874										63	
875										18	
876										112	
877										40	
878										50	
879										31	
880										40	
881										44	
Assumptions:											
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)											
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)											
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Annual Report of												
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Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
882											96	
883											49	
884											49	
885											28	
886											216	
887											140	
888											54	
889											67	
890											49	
891											8	
892											68	
893											28	
894											41	
895											86	
896											35	
897											63	
898											62	
899											103	
900											15	
901											19	
902											103	
903											41	
904											35	
905											225	
906											46	
907											66	
908											8	
909											15	
910											59	
911											99	
912											98	
913											92	
914											18	
915											85	
916											92	
917											68	
918											69	
919											48	
920											63	
921											35	
922											35	
923											30	
924											35	
925											25	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of					
Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
Customer #	Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days				
926	36				
927	74				
928	89				
929	75				
930	16				
931	51				
932	65				
933	52				
934	70				
935	69				
936	40				
937	377				
938	27				
939	56				
940	155				
941	9				
942	57				
943	69				
944	52				
945	36				
946	183				
947	32				
948	92				
949	15				
950	92				
951	72				
952	37				
953	8				
954	44				
955	49				
956	57				
957	54				
958	54				
959	57				
960	46				
961	54				
962	203				
963	18				
964	62				
965	116				
966	54				
967	174				
968	76				
969	41				
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.					
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5. Time is represented in actual days, not business days.					
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.					

Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
970												222
971												77
972												69
973												88
974												36
975												76
976												100
977												41
978												54
979												8
980												54
981												55
982												15
983												82
984												56
985												48
986												246
987												83
988												149
989												69
990												66
991												108
992												39
993												71
994												57
995												78
996												71
997												22
998												63
999												65
1000												74
1001												42
1002												20
1003												25
1004												33
1005												85
1006												70
1007												123
1008												65
1009												41
1010												85
1011												86
1012												41
1013												86
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Appendix 3 – Time Required for Connection of Distributed Resources

2021 Annual Report of Ameren Illinois Company d/b/a Ameren Illinois									
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***									
Customer #		Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days							
	1014								22
	1015								71
	1016								45
	1017								36
	1018								162
	1019								41
	1020								36
	1021								195
	1022								44
	1023								19
	1024								68
	1025								48
	1026								46
	1027								50
	1028								71
	1029								33
	1030								33
	1031								61
	1032								19
	1033								185
	1034								160
	1035								126
	1036								19
	1037								195
	1038								160
	1039								95
	1040								112
	1041								22
	1042								55
	1043								69
	1044								67
	1045								37
	1046								64
	1047								67
	1048								93
	1049								60
	1050								75
	1051								149
	1052								224
	1053								136
	1054								82
	1055								64
	1056								64
	1057								93
Assumptions:									
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)									
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)									
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.									
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Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1058											71	
1059											49	
1060											36	
1061											64	
1062											36	
1063											50	
1064											64	
1065											558	
1066											59	
1067											101	
1068											207	
1069											28	
1070											47	
1071											78	
1072											56	
1073											330	
1074											96	
1075											29	
1076											34	
1077											30	
1078											18	
1079											85	
1080											41	
1081											18	
1082											44	
1083											97	
1084											7	
1085											56	
1086											35	
1087											60	
1088											49	
1089											62	
1090											25	
1091											22	
1092											78	
1093											20	
1094											57	
1095											7	
1096											53	
1097											7	
1098											78	
1099											36	
1100											7	
1101											7	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
1102												22
1103												47
1104												64
1105												25
1106												92
1107												68
1108												25
1109												129
1110												111
1111												38
1112												24
1113												59
1114												160
1115												85
1116												28
1117												39
1118												37
1119												29
1120												126
1121												48
1122												105
1123												83
1124												27
1125												65
1126												59
1127												121
1128												40
1129												19
1130												14
1131												57
1132												61
1133												66
1134												127
1135												28
1136												44
1137												30
1138												85
1139												76
1140												24
1141												66
1142												24
1143												36
1144												30
1145												80
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Appendix 3 – Time Required for Connection of Distributed Resources

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Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1190												19
1191												36
1192												73
1193												32
1194												65
1195												32
1196												61
1197												31
1198												313
1199												36
1200												61
1201												91
1202												90
1203												107
1204												182
1205												46
1206												81
1207												52
1208												39
1209												36
1210												225
1211												47
1212												58
1213												192
1214												42
1215												56
1216												58
1217												35
1218												36
1219												67
1220												169
1221												80
1222												67
1223												33
1224												62
1225												6
1226												35
1227												121
1228												33
1229												131
1230												30
1231												82
1232												67
1233												96
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (Instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1234											47	
1235											57	
1236											223	
1237											33	
1238											59	
1239											112	
1240											51	
1241											76	
1242											23	
1243											29	
1244											24	
1245											39	
1246											37	
1247											53	
1248											60	
1249											58	
1250											26	
1251											185	
1252											35	
1253											45	
1254											70	
1255											224	
1256											32	
1257											26	
1258											39	
1259											43	
1260											58	
1261											113	
1262											93	
1263											103	
1264											66	
1265											28	
1266											22	
1267											20	
1268											41	
1269											174	
1270											41	
1271											30	
1272											14	
1273											41	
1274											98	
1275											174	
1276											89	
1277											42	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (Instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1278											33	
1279											89	
1280											34	
1281											113	
1282											106	
1283											42	
1284											37	
1285											129	
1286											87	
1287											129	
1288											104	
1289											37	
1290											89	
1291											66	
1292											190	
1293											144	
1294											28	
1295											30	
1296											99	
1297											60	
1298											30	
1299											44	
1300											49	
1301											42	
1302											53	
1303											33	
1304											43	
1305											22	
1306											38	
1307											18	
1308											67	
1309											68	
1310											59	
1311											90	
1312											89	
1313											77	
1314											126	
1315											128	
1316											134	
1317											149	
1318											149	
1319											149	
1320											317	
1321											95	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of						
Ameren Illinois Company d/b/a Ameren Illinois						
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***						
Customer #	<u>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</u>					
1322	27					
1323	92					
1324	42					
1325	40					
1326	116					
1327	155					
1328	99					
1329	31					
1330	33					
1331	35					
1332	42					
1333	43					
1334	49					
1335	118					
1336	52					
1337	20					
1338	27					
1339	73					
1340	72					
1341	98					
1342	115					
1343	128					
1344	119					
1345	112					
1346	74					
1347	74					
1348	62					
1349	20					
1350	41					
1351	44					
1352	55					
1353	31					
1354	56					
1355	41					
1356	74					
1357	253					
1358	223					
1359	185					
1360	133					
1361	98					
1362	62					
1363	70					
1364	64					
1365	51					
Assumptions:						
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)						
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)						
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
1366											142	
1367											37	
1368											16	
1369											26	
1370											29	
1371											34	
1372											31	
1373											26	
1374											22	
1375											112	
1376											217	
1377											139	
1378											103	
1379											80	
1380											49	
1381											51	
1382											67	
1383											109	
1384											213	
1385											139	
1386											129	
1387											118	
1388											22	
1389											1	
1390											21	
1391											28	
1392											26	
1393											26	
1394											20	
1395											23	
1396											50	
1397											44	
1398											47	
1399											58	
1400											57	
1401											68	
1402											64	
1403											77	
1404											20	
1405											134	
1406											43	
1407											69	
1408											71	
1409											124	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
1410											112	
1411											103	
1412											106	
1413											83	
1414											88	
1415											85	
1416											18	
1417											18	
1418											20	
1419											19	
1420											28	
1421											28	
1422											21	
1423											36	
1424											36	
1425											43	
1426											30	
1427											45	
1428											48	
1429											46	
1430											310	
1431											185	
1432											149	
1433											23	
1434											139	
1435											144	
1436											48	
1437											110	
1438											92	
1439											76	
1440											43	
1441											75	
1442											77	
1443											66	
1444											64	
1445											32	
1446											46	
1447											47	
1448											52	
1449											51	
1450											49	
1451											50	
1452											50	
1453											22	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
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Annual Report of									
Ameren Illinois Company d/b/a Ameren Illinois									
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***									
					Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days				
Customer #									

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Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
Customer #	Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days				
1498	103				
1499	102				
1500	88				
1501	73				
1502	31				
1503	60				
1504	51				
1505	56				
1506	52				
1507	45				
1508	52				
1509	51				
1510	44				
1511	84				
1512	30				
1513	34				
1514	30				
1515	33				
1516	33				
1517	70				
1518	60				
1519	53				
1520	47				
1521	47				
1522	49				
1523	40				
1524	35				
1525	29				
1526	36				
1527	203				
1528	154				
1529	84				
1530	85				
1531	78				
1532	77				
1533	79				
1534	58				
1535	13				
1536	23				
1537	23				
1538	28				
1539	29				
1540	30				
1541	30				
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.					
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)					
5. Time is represented in actual days, not business days.					
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.					

Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1542												35
1543												38
1544												43
1545												41
1546												37
1547												48
1548												105
1549												158
1550												99
1551												95
1552												99
1553												18
1554												29
1555												40
1556												29
1557												67
1558												70
1559												41
1560												45
1561												42
1562												66
1563												64
1564												249
1565												124
1566												112
1567												103
1568												72
1569												61
1570												55
1571												55
1572												42
1573												42
1574												42
1575												36
1576												37
1577												38
1578												34
1579												36
1580												33
1581												27
1582												26
1583												25
1584												19
1585												16
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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5. Time is represented in actual days, not business days.												
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Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1586												126
1587												111
1588												101
1589												83
1590												68
1591												62
1592												35
1593												36
1594												21
1595												16
1596												17
1597												131
1598												131
1599												120
1600												21
1601												94
1602												79
1603												72
1604												121
1605												117
1606												36
1607												9
1608												14
1609												16
1610												13
1611												27
1612												21
1613												26
1614												32
1615												51
1616												39
1617												39
1618												39
1619												20
1620												41
1621												41
1622												45
1623												50
1624												85
1625												79
1626												90
1627												95
1628												95
1629												83
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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5. Time is represented in actual days, not business days.												
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Appendix 3 – Time Required for Connection of Distributed Resources

2021

Annual Report of

Ameren Illinois Company d/b/a Ameren Illinois

Requests for Distributed Generation Interconnection (Net Metering Customers Only)***

Customer #	Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days
1630	83
1631	48
1632	54
1633	54
1634	60
1635	48
1636	61
1637	65
1638	69
1639	71
1640	79
1641	152
1642	213
1643	123
1644	41
1645	39
1646	13
1647	57
1648	32
1649	48
1650	43
1651	39
1652	48
1653	117
1654	108
1655	105
1656	105
1657	105
1658	128
1659	71
1660	34
1661	16
1662	41
1663	104
1664	105
1665	67
1666	72
1667	71
1668	177
1669	108
1670	39
1671	76
1672	58
1673	77

Assumptions:

1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)

2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)

3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.

4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)

5. Time is represented in actual days, not business days.

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Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1674												77
1675												93
1676												49
1677												52
1678												41
1679												62
1680												63
1681												77
1682												42
1683												44
1684												60
1685												33
1686												70
1687												22
1688												114
1689												99
1690												30
1691												23
1692												36
1693												43
1694												75
1695												34
1696												56
1697												56
1698												61
1699												47
1700												75
1701												153
1702												89
1703												68
1704												33
1705												68
1706												181
1707												39
1708												21
1709												50
1710												22
1711												78
1712												27
1713												69
1714												97
1715												47
1716												76
1717												44
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.												
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2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
1718											44	
1719											41	
1720											172	
1721											205	
1722											68	
1723											63	
1724											50	
1725											49	
1726											49	
1727											50	
1728											36	
1729											34	
1730											28	
1731											27	
1732											29	
1733											24	
1734											34	
1735											24	
1736											24	
1737											19	
1738											50	
1739											124	
1740											241	
1741											224	
1742											163	
1743											96	
1744											90	
1745											79	
1746											76	
1747											70	
1748											72	
1749											66	
1750											66	
1751											64	
1752											19	
1753											24	
1754											54	
1755											56	
1756											24	
1757											24	
1758											23	
1759											23	
1760											29	
1761											29	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (Instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.												
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
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Appendix 3 – Time Required for Connection of Distributed Resources

2021											
Annual Report of											
Ameren Illinois Company d/b/a Ameren Illinois											
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***											
Duration: Time from a Completed Application Until Energy Flows											
from Project to Grid (Live Date) in Actual Days											
Customer #											
1762											34
1763											29
1764											29
1765											30
1766											31
1767											30
1768											47
1769											49
1770											49
1771											43
1772											42
1773											47
1774											43
1775											38
1776											28
1777											23
1778											64
1779											93
1780											37
1781											176
1782											25
1783											71
1784											55
1785											57
1786											11
1787											86
1788											79
1789											38
1790											51
1791											50
1792											16
1793											34
1794											35
1795											16
1796											91
1797											300
1798											139
1799											128
1800											100
1801											124
1802											64
1803											70
1804											55
1805											56
Assumptions:											
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)											
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)											
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.											
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)											
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Appendix 3 – Time Required for Connection of Distributed Resources

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Annual Report of											
Ameren Illinois Company d/b/a Ameren Illinois											
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***											
Duration: Time from a Completed Application Until Energy Flows											
from Project to Grid (Live Date) in Actual Days											
Customer #											
1806										55	
1807										60	
1808										63	
1809										67	
1810										67	
1811										63	
1812										42	
1813										42	
1814										38	
1815										22	
1816										35	
1817										37	
1818										11	
1819										15	
1820										21	
1821										25	
1822										34	
1823										31	
1824										41	
1825										41	
1826										23	
1827										84	
1828										35	
1829										91	
1830										28	
1831										85	
1832										55	
1833										41	
1834										110	
1835										65	
1836										68	
1837										22	
1838										42	
1839										20	
1840										42	
1841										65	
1842										17	
1843										65	
1844										78	
1845										23	
1846										36	
1847										137	
1848										68	
1849										39	
Assumptions:											
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)											
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)											
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2021					
Annual Report of					
Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
Customer #	<u>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</u>				
1850	159				
1851	67				
1852	58				
1853	35				
1854	168				
1855	116				
1856	102				
1857	90				
1858	76				
1859	78				
1860	70				
1861	51				
1862	54				
1863	43				
1864	45				
1865	44				
1866	24				
1867	37				
1868	31				
1869	29				
1870	30				
1871	22				
1872	21				
1873	24				
1874	14				
1875	95				
1876	25				
1877	49				
1878	82				
1879	16				
1880	51				
1881	24				
1882	51				
1883	34				
1884	57				
1885	31				
1886	63				
1887	34				
1888	225				
1889	32				
1890	37				
1891	32				
1892	30				
1893	41				
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
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Appendix 3 – Time Required for Connection of Distributed Resources

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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
1894												81
1895												49
1896												58
1897												26
1898												33
1899												189
1900												66
1901												28
1902												34
1903												294
1904												70
1905												19
1906												74
1907												34
1908												48
1909												97
1910												16
1911												29
1912												29
1913												22
1914												51
1915												98
1916												116
1917												148
1918												82
1919												62
1920												189
1921												31
1922												35
1923												108
1924												58
1925												74
1926												24
1927												32
1928												61
1929												37
1930												94
1931												90
1932												169
1933												57
1934												57
1935												112
1936												65
1937												24
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
1938												238
1939												104
1940												86
1941												94
1942												82
1943												77
1944												81
1945												75
1946												71
1947												56
1948												29
1949												45
1950												41
1951												38
1952												37
1953												35
1954												35
1955												30
1956												21
1957												22
1958												38
1959												35
1960												27
1961												26
1962												22
1963												24
1964												22
1965												10
1966												219
1967												133
1968												108
1969												107
1970												55
1971												59
1972												63
1973												59
1974												50
1975												42
1976												49
1977												38
1978												37
1979												41
1980												30
1981												70
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
1982												76
1983												73
1984												115
1985												14
1986												15
1987												52
1988												695
1989												41
1990												126
1991												26
1992												205
1993												217
1994												197
1995												188
1996												166
1997												160
1998												82
1999												43
2000												49
2001												57
2002												67
2003												39
2004												22
2005												33
2006												7
2007												129
2008												39
2009												42
2010												42
2011												58
2012												56
2013												36
2014												35
2015												10
2016												168
2017												21
2018												109
2019												85
2020												82
2021												177
2022												175
2023												75
2024												76
2025												65
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.												
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
5. Time is represented in actual days, not business days.												
*** - This represents the total # of net metering customers that completed their installations from Feb 10, 2020 to Feb 10, 2021.												

Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
2026												60
2027												60
2028												60
2029												63
2030												56
2031												56
2032												52
2033												38
2034												35
2035												6
2036												43
2037												69
2038												131
2039												6
2040												54
2041												144
2042												41
2043												56
2044												76
2045												154
2046												124
2047												110
2048												111
2049												175
2050												111
2051												85
2052												112
2053												77
2054												63
2055												67
2056												49
2057												71
2058												62
2059												69
2060												62
2061												50
2062												48
2063												48
2064												43
2065												42
2066												52
2067												(316)
2068												21
2069												2
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
2070												13
2071												18
2072												21
2073												29
2074												21
2075												33
2076												37
2077												29
2078												33
2079												29
2080												41
2081												22
2082												33
2083												44
2084												43
2085												45
2086												43
2087												46
2088												90
2089												47
2090												70
2091												97
2092												26
2093												10
2094												77
2095												10
2096												56
2097												78
2098												27
2099												129
2100												87
2101												59
2102												59
2103												59
2104												71
2105												45
2106												46
2107												46
2108												46
2109												46
2110												39
2111												43
2112												43
2113												43
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
2114												31
2115												31
2116												105
2117												35
2118												33
2119												75
2120												41
2121												67
2122												150
2123												22
2124												26
2125												34
2126												36
2127												13
2128												197
2129												47
2130												11
2131												73
2132												15
2133												34
2134												35
2135												26
2136												56
2137												71
2138												33
2139												56
2140												25
2141												73
2142												50
2143												8
2144												16
2145												129
2146												43
2147												143
2148												34
2149												113
2150												80
2151												87
2152												16
2153												66
2154												65
2155												29
2156												29
2157												29
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
3. Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distributed generation installation.												
4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
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Appendix 3 – Time Required for Connection of Distributed Resources

2021					
Annual Report of					
Ameren Illinois Company d/b/a Ameren Illinois					
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***					
Customer #	<u>Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days</u>				
2158	29				
2159	29				
2160	29				
2161	29				
2162	29				
2163	29				
2164	29				
2165	29				
2166	29				
2167	29				
2168	29				
2169	29				
2170	29				
2171	29				
2172	29				
2173	29				
2174	29				
2175	29				
2176	29				
2177	29				
2178	29				
2179	29				
2180	29				
2181	29				
2182	29				
2183	29				
2184	29				
2185	29				
2186	160				
2187	160				
2188	160				
2189	160				
2190	160				
2191	160				
2192	160				
2193	160				
2194	160				
2195	160				
2196	160				
2197	160				
2198	160				
2199	160				
2200	160				
2201	160				
Assumptions:					
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)					
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)					
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4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)					
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Appendix 3 – Time Required for Connection of Distributed Resources

2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
2202												160
2203												160
2204												160
2205												160
2206												160
2207												160
2208												160
2209												160
2210												160
2211												160
2212												160
2213												160
2214												160
2215												160
2216												160
2217												160
2218												160
2219												160
2220												160
2221												160
2222												160
2223												160
2224												160
2225												160
2226												160
2227												160
2228												160
2229												160
2230												160
2231												160
2232												160
2233												160
2234												160
2235												160
2236												160
2237												160
2238												160
2239												160
2240												160
2241												160
2242												160
2243												160
2244												160
2245												160
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
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2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
2246												160
2247												160
2248												160
2249												160
2250												160
2251												160
2252												160
2253												160
2254												160
2255												160
2256												160
2257												160
2258												160
2259												160
2260												160
2261												160
2262												160
2263												160
2264												160
2265												160
2266												160
2267												160
2268												160
2269												160
2270												160
2271												160
2272												160
2273												160
2274												160
2275												160
2276												160
2277												155
2278												73
2279												124
2280												131
2281												41
2282												23
2283												95
2284												41
2285												34
2286												101
2287												92
2288												120
2289												181
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
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Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
2290											227	
2291											83	
2292											86	
2293											59	
2294											24	
2295											196	
2296											51	
2297											52	
2298											80	
2299											37	
2300											68	
2301											68	
2302											68	
2303											68	
2304											68	
2305											68	
2306											68	
2307											68	
2308											68	
2309											68	
2310											68	
2311											68	
2312											68	
2313											68	
2314											68	
2315											68	
2316											68	
2317											68	
2318											68	
2319											68	
2320											68	
2321											68	
2322											68	
2323											68	
2324											68	
2325											68	
2326											68	
2327											68	
2328											68	
2329											68	
2330											68	
2331											68	
2332											68	
2333											68	
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (Instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows												
from Project to Grid (Live Date) in Actual Days												
Customer #												
2334												68
2335												68
2336												68
2337												68
2338												68
2339												68
2340												68
2341												68
2342												68
2343												68
2344												68
2345												68
2346												68
2347												68
2348												68
2349												68
2350												68
2351												68
2352												68
2353												68
2354												68
2355												68
2356												68
2357												68
2358												68
2359												68
2360												68
2361												68
2362												68
2363												68
2364												68
2365												68
2366												68
2367												68
2368												68
2369												68
2370												68
2371												68
2372												68
2373												68
2374												68
2375												68
2376												68
2377												68
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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4. It should be noted some systems will NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable energy consumption (e.g. some smaller systems were installed in school science labs for educational purposes only.)												
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2021												
Annual Report of												
Ameren Illinois Company d/b/a Ameren Illinois												
Requests for Distributed Generation Interconnection (Net Metering Customers Only)***												
Duration: Time from a Completed Application Until Energy Flows from Project to Grid (Live Date) in Actual Days												
Customer #												
2378												68
2379												68
2380												68
2381												68
2382												68
2383												68
2384												68
2385												68
2386												68
2387												68
2388												68
2389												68
2390												68
2391												68
2392												68
2393												68
2394												68
2395												68
2396												68
2397												68
2398												68
2399												68
2400												68
2401												68
2402												68
2403												68
2404												68
2405												68
2406												68
2407												68
2408												68
2409												68
2410												68
2411												68
2412												68
2413												68
2414												68
2415												68
2416												68
2417												68
2418												68
2419												68
2420												68
2421												68
Assumptions:												
1. The clock will start upon receipt of a complete application from customer. An application is considered complete when all required documentation, information, application fees, etc. has been received and application can be forwarded to engineering. (instructions - use Column U in spreadsheet)												
2. The clock will end based on the date when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not authorized to operate the system until the application has been reviewed and approved by Engineering, an inspection and site-test completed and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreadsheet)												
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Appendix 3 – Time Required for Connection of Distributed Resources

[illegible]

Appendix 4 – Non-Standard Metering Annual Report

Each year beginning in 2016, on or before April 1 and on or before October 1, Ameren Illinois shall file with the ICC a semi-annual report that summarizes information pertaining to Customers that have refused AMI metering. The semi-annual report shall provide (1) the number of Customers that have refused AMI metering and the reason for the refusal; (2) a description of the Company's efforts to address such Customers; and (3) identification of the Company's costs associated with providing service to such Customers. The report due by April 1 shall be included in the Advanced Metering Infrastructure (AMI) annual report filed by the Company that requires the Company to file a report by April 1 of each year "regarding the progress it has made toward completing implementation of its AMI Plan", pursuant to Section 16-108.6(e) of the Public Utilities Act.

Within 30 days after the Company files the fifth annual report described above, the Company shall file a petition with the ICC requesting authority to continue the use of this Rider and applicable charges. The petition will include the information provided in the previously submitted annual reports.

Summary

For the period of June 2014 through December 2020, 3,101 AMR and AMI customers requested non-standard metering. Due to the prior AMR medical exemption process, 8 customers have been grandfathered into non-standard metering. These customers are not included in the 3,101 and do not receive the monthly advanced meter refusal charge. There were 138 Ameren Illinois customers enrolled in non-standard metering as a result of Unable-to-Complete AMI meter deployments.

Current Ameren Illinois Non-Standard Metering Refusals

Refusal Reason	Number of Customers
Health	344
Higher Bills	13
No reason provided	1,150
Interference	7
Privacy	54
Safety	77
Unable to Complete Advanced Meter Install	1,456
Total	3,101

There are two ways for customers to enroll in Non-Standard Metering (NSM):

1. Customer Request for Non-Standard Metering

Residential Customers have the option of refusing the installation of Advanced Metering or requesting the removal of previously installed Advanced Metering by contacting the Ameren Illinois Contact Center.

The enrollment process is as follows:

Meter Exchange Minus Two Months	•Ameren Illinois Customer receives a letter notification of the upcoming meter exchange. Customer may request NSM prior to or during AMI communications via the Contact Center or during meter installation
Meter Exchange Minus One Month	•Ameren Illinois Customer receives a postcard reminder of the upcoming meter exchange. Customer may request NSM prior to or during AMI communications via the Contact Center or during meter installation
Two Meter Exchange Attempts	•Ameren Illinois or its installation subcontractor will attempt two premise meter exchanges. A door hanger will be left with the customer that notes a successful or attempted exchange. Customer may request NSM prior to or during AMI communications via the Contact Center or during meter installation
Order Initiated with Customer Accounts Department	•Customer Service Agent or Operations Support Associate initiates order to Customer Accounts Department (CAD).
Determine Meter Exchange	•CAD determines whether or not a meter exchange order is required based upon the current meter type at the premise. If an automated meter is present, CAD initiates the order to exchange the meter with a non-automated meter.
Order Completion	•Field personnel completes the meter exchange order.
Enrollment In NSM	•When meter exchange is completed, the Customer is enrolled in non-standard metering.
Monthly Charge	•The customer will receive the non-standard metering monthly reading charge once the route for that meter is read via an automated meter process

2. Customer is enrolled due to Unable-To-Complete Meter installations

As stated in the Non-Standard Metering Rider, if Ameren Illinois is unable to complete an Advanced Metering installation at eligible premises for reasons including but not limited to, locked gates or doors, physical blockages of meters, or unrestrained dogs, Ameren Illinois will treat these situations as Advanced Metering refusal. Ameren Illinois will contact the customer 6 times prior to enrolling them in Non-Standard Metering.

The contact process is as follows:

Meter Exchange Minus Two Months	•Ameren Illinois Customer receives a letter notification of the upcoming meter exchange. Customer may request NSM prior to or during AMI communications via the Contact Center or during meter installation
Meter Exchange Minus One Month	•Ameren Illinois Customer receives a postcard reminder of the upcoming meter exchange. Customer may request NSM prior to or during AMI communications via the Contact Center or during meter installation
Two Meter Exchange Attempts	•Ameren Illinois or its installation subcontractor (Apex) will attempt two onsite premise meter exchanges. A door hanger will be left with the Customer that notes a successful exchange or an attempted exchange. Customer may request NSM prior to or during AMI communications via the Contact Center or during meter installation
Scheduled Meter Exchange Attempt	•Ameren Illinois or its installation subcontractor (Apex) will call the Customer to set up an appointment to exchange the meter. If an appointment cannot be scheduled, an order will be issued to local field office.
Enrollment In NSM	•The local field office will issue a letter that directs the Customer to schedule an exchange appointment within 30 days. If a customer does not schedule an appointment, the Customer will be enrolled in NSM when the local field office has availability (not less than 30 days from Customer notification letter.)
Unable-To-Complete Letter	•Customer Accounts Department sends Unable-To-Complete confirmation letter to customer

Ameren Illinois Customers with 2020 NSM Charges

There were Ameren Illinois customers who received monthly charges as a result of Non-Standard Metering through December 2020. The NSM rider includes all automated metering, both AMI and AMR customers. All customers with NSM charges are now in AMI areas.

Service(s)	Number of Customers
Electric & Gas	459
Gas	337
Electric	<u>1,047</u>
Total	1,843

Customer Refusal Method

Refusal Method	Number of Customers
Enrolled After Meter Installation	246
AMI Refusal During Deployment	652
Customer Contact Center	747
Unable to Complete	<u>1,456</u>
Total	3,101

Ameren Illinois' Costs Summary

Department	Cost
Meter Reading	\$805,496
Field and Meter Services	\$26,356
Deployment	\$50,474
AMI Operations	\$33,897
Customer Experience	\$12,462
Billing	<u>\$44,654</u>
Total	\$973,339

Ameren Illinois' Estimated Costs Descriptions

Meter Reading: Ameren Illinois incurred an estimated \$805,496 of meter reading costs for 3,101 customers who received NSM charges through 2020.

Manual Meter Reading costs:

Service(s)	#Reads	Calculation
Electric	23,122	#Reads * monthly fee = \$461,224
Gas	4,607	#Reads * monthly fee = \$91,972
Both	21,025	#Reads * monthly fee = \$252,300
Total	48,754	\$805,496

Field and Meter Services: Ameren Illinois incurred an estimated \$26,356 of Field and Meter Services cost for customers' meter exchanges.

Meter Exchange order costs:

#Customers	Calculation
2	#Customers * Exchange Fee 2 * \$70.00 = \$140
1**	#Customers * Exchange Fee 1(2) * \$70.00 = \$140
Total 3	\$280

#Customers	Calculation
131	#Customers * Exchange Fee 131(1) * \$73.87 = \$9,676
111**	#Customers * Exchange Fee 111*(2) * \$73.87 = \$16,399
Total 242	\$26,076

Footnote: Change in Meter exchange rate reflects July 1st 2016 increase.

**Customers who required 2 Meter exchanges

Deployment: Ameren Illinois incurred an estimated \$50,474 of Deployment costs for 652 customers who refused AMI during deployment and 1,456 Unable to Complete installs:

Subcontractor Installer Costs:

Subcontractor Rate	Calculation
\$24.29	Rate * #Customers \$24.29 * 2,078 = \$50,474
Total	\$50,474

AMI Operations: Ameren Illinois incurred an estimated \$33,897 of Operations costs for 1,456 Unable to Complete installs and 898 customers who requested NSM during meter installation or after meter installation (exchange):

Operations Support Costs:

OSR Rate	Time to Support	Cost to Support	Calculation
\$86.43	10 minutes/Customer	\$14.40/Customer	Cost to Support * #Customers \$14.40 * 2,354 = \$33,897
Total			\$33,897

Customer Experience:

Ameren Illinois incurred an estimated \$10,756 of costs for 747 customers who contacted the Ameren Illinois Customer Contact Center to request NSM.

Ameren Illinois incurred postage and labor costs of \$1,705 for all 3,101 customers who requested NSM.

Rate	Time to Support	Cost to Support	Calculation
Contact Center \$86.43/hr	10 Minutes/Customer	\$14.40/Customer	Cost to Support * #Customers \$14.40 * 747 = \$10,756
Postage \$0.55/letter	1 Letter/Customer	\$0.55/Customer	Cost to Support * #Letters \$0.55/letter * 3,101 = \$1,705
Total			\$12,462

Billing: Ameren Illinois incurred an estimated \$44,654 of cost for all 3,101 customers who requested Non-Standard metering through December 2020.

Customer Accounts department (CAD) Costs:

CAD Rate	Time to Support	Cost to Support	Calculation
\$86.43	10 minutes/Customer	\$14.40/Customer	Cost to Support * #Customers \$14.40 * 3,101 = \$44,654
Total			\$44,654

²Appendix 5 – Ameren Illinois Greenhouse Gas Emission Reduction Metric for Smart Grid Advanced Metering Infrastructure Deployment

On September 10, 2014, the Citizens Utility Board and Environmental Defense Fund (collectively “CUB/EDF”) filed a verified Petition requesting that the Illinois Commerce Commission (“Commission”) initiate a proceeding to adopt a metric for measuring reductions in greenhouse gas (“GHG”) emissions associated with Smart Grid Advanced Metering Infrastructure (“AMI”) Deployment Plans (“AMI Plans”) filed pursuant to Section 16-108.6 of the Public Utilities Act.

Following the resolution of several initial motions, Ameren Illinois Company d/b/a Ameren Illinois (“Ameren Illinois”) and CUB/EDF filed multiple rounds of testimony outlining their respective positions. On September 27, 2017, the Commission issued an Order presenting its decision on the remaining contested issues. As a part of the Order, Ameren Illinois was directed to file an unpopulated version of CUB/EDF’s “Bottom Up Approach” metric within ninety (90) days. The Commission also directed “Ameren should report on the Operational Changes Approach and Load Shape Approach in its annual AMI Updates, beginning in 2018...”

Ameren Illinois Greenhouse Gas Emission Reduction Calculations

Ameren Illinois uses the following methodology and data sources to estimate the reduction in GHG impacted by Ameren Illinois’ implementation of programs enabled by AMI. The AMI-enabled programs are listed in Ameren Illinois’ AMI Plan, as approved in Docket No. 12-0244 (on Re-Opening.) For the previous calendar year, the AMI-enabled programs include customers on real time pricing programs who have AMI meters, residential customers enrolled in Peak Time Rewards, and customers who have enabled a Home Area Network (HAN) device.

1. Reduction in Marginal Emissions Formula

Ameren Illinois will estimate the change in Marginal Emission by calculating the sum of the change in load for program participants in each hourly time interval for the calendar year multiplied by the marginal emissions rate for each associated hourly time interval.

The estimation formula is expressed as:

$$\Delta GHG(B) = \sum_{t=1}^T \Delta \text{Marginal Emissions } t$$

Where

$$\Delta \text{Marginal Emissions} = [\Delta \text{ in Program Participant Load in } t] * [\text{Marginal Emissions Rate in } t]$$

2. Change in Program Participant Load in t

To estimate the change in program participant load, Ameren Illinois will calculate for each hour (t) of the year, the usage of customers in a service class with an AMI meter that are on an AMI-enabled program and compare that against an average of customers in the service class that are not on an AMI-enabled program multiplied by the number of customers on a AMI-enabled program in the service class.

The change in program participant load stated as formula:

$$\begin{aligned} \Delta \text{ in Program Participant Load in } t \\ &= [(\text{Average Customer Load in } t) * (\text{AMI Enabled Program Participants in } t)] \\ &- [\text{Program Participant Load in } t] \end{aligned}$$

² The 2018 Greenhouse Gas calculation has not been updated due to the unavailability of specific data from MISO. Inquiries have been made to retrieve the data.

Ameren Illinois will use data it submits to MISO for hourly settlement by rate class for the Average Customer Load in t. For the AMI Enabled Program Participant Load in t, Ameren Illinois will use data from its AMI Data Warehouse in hourly intervals with the notation of customers with AMI meters and participating in an AMI-enabled program.

3. Marginal Emissions Rate in t

To develop the estimate for the marginal emission rate in t, Ameren Illinois will calculate the marginal emission rate based on publicly available data. First, Ameren Illinois will calculate the percentage of each type of marginal generation in each hour (t) for the year from available MISO data for the Central region. Ameren Illinois will then multiply the percentage of marginal generation for coal and natural gas by the average heat rate rates for the coal and natural fuel sources that emit GHG. Next, Ameren Illinois will multiply the percentage of each marginal carbon emitting fuel source average heat rate by a GHG emission rate. Finally, Ameren Illinois will divide the formula by 1,000 British Thermal Units to keep the units consistent.

The Marginal Emissions Rate is expressed as:

$$\text{Marginal Emissions Rate in } t = (\% \text{ Fuel in } t) * (\text{Average Heat Rate of Fuel Source}) * (\text{Emission Rate of Fuel Source}) * (1 \times 10^{-3} \text{ BTUs})$$

The data for the fuel source on margin in five (5) minute increments is provided by MISO. Using the MISO margin data, Ameren Illinois will calculate the percentage of fuel source on margin for each hourly interval (t). The average heat rate by fuel source will be provided by the EPA for coal for all coal generation in the U.S. Because MISO does not differentiate between the types of Natural Gas Generation in its data sources, Ameren Illinois will calculate a weighted average of natural gas fired generation by type using EPA data for the entire MISO region and multiply it by average heat rates for all U.S. natural gas generation provided by the EPA. Finally, Ameren Illinois will leverage EPA average generation source emission data for the emission rate of fuel source.

4. Outcome of Greenhouse Gas Calculation

After compiling the data and performing the calculation, the following has been determined:

AMI Enabled Program	CO ₂ Variance from Average Customer
Peak Time Rewards	15 metric tons of CO ₂ ¹
Residential Real Time Pricing and Home Area Network	(8,480) metric tons of CO ₂
Commercial and Industrial Real Time Pricing ²	<u>117,629 metric tons of CO₂</u>
Total Reduction in GHG	109,164 metric tons of CO ₂

¹Neither the MidContinent Independent System Operator (MISO) nor Ameren Illinois called a Peak Time Rewards event in 2017

²For 2017's analysis, AMI enabled Commercial and Industrial customers include Real Time Pricing DS 2 (RTP2), Hourly Supply Service DS 3 and DS 4 (HSS3 and HSS4). No Hourly Supply Service DS 6 (HSS6) customers were enabled with an AMI meter in 2017.