

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.

<sup>1</sup>Also, 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:

TBD

<sup>&</sup>lt;sup>1</sup> The 2018 Greenhous 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	rocesses for installation billing Revenue Protection f 2-way communication Transfer AMI interval data  Transfer AMI interval data		Event processing such as outage notification
Manage Asset Information	Customer Web Portal  Green Button	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 <del>√</del>

# **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	<u>79</u>					
	Total	684					

<sup>\*</sup>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 operationals savings. Below is a chart depicting the savings realized for 2020.

2020 BENEFITS/COST SAVII	NGS
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.

<u>Segmented radio or Terrestial radio</u> 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 Pintrest) 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

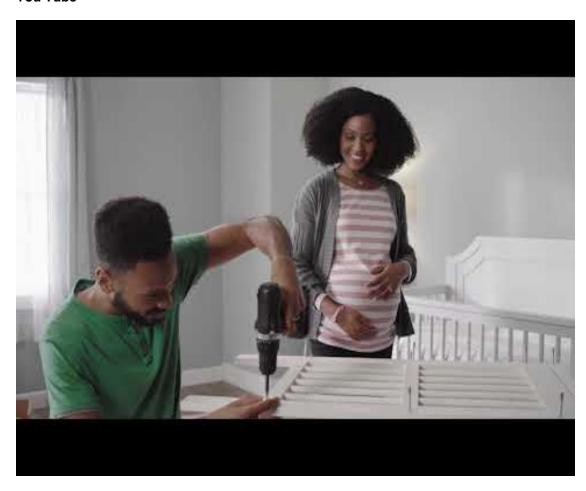
CTR: 0.31%

# 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/jK x-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.







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

<sup>\*</sup>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.

<u>Future State:</u> 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 Pintrest 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

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	<u>601</u>
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	<u>417</u>
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	<u>105</u>
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.

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

#### 725 AMI customers downloaded their Green Button data in 2020

6. 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

7. 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.

8. 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.

 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

10. 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.

11. 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.

12. 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.

13. 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%.

14. 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				
			Annua	Report of				
		Ameren	Illinois Comp	oany d/b/a Amei	ren Illinois			
			Pursuant t	o Part 466.140				
		of t	he 83 Illinois	Administrative	Code			
		<=10 MV	A Distributed	Generation An	nual Report			
				Generation In				
	2018-2	019 Data	2019-2	020 Data	2020-2	021 Data		
	(as of 2	2-10-19)	(as of 2	2-10-20)	(as of 2	2-10-21)	Totals as	of 2-10-2
	Completed	Under Review	Completed	Under Review	Completed	Under Review	Requests	Received*
1) Requests Received	569	1439	1561	605	2975	739		218
Level 1	513	293	1428	474	2862	655		232
Level 2	56	1105	133	130	113	81		006
Level 3	0	0	0	0	0	0		1
Level 4	0	41	0	1	0	3	7	9
						-		
							Requests 2	Approved*
	Customers	<u>kW</u>	Customers	kW	Customers	kW	Customers	kW
2) Requests Approved	573	9155.4	1724	30073.0	2444	131850.5	5919	196257.1
,								
Level 1:	517	3578.4	1591	15056.0	2185	19848.8	5238	45308.2
Solar	517	3578.4	1591	15056.0	2185	19848.8	5148	44761.4
Wind	0	0.0	0	0.0	0	0.0	50	246.0
Both	0	0.0	0	0.0	0	0.0	40	300.8
Level 2:	56	5577.0	133	15017.0	259	112001.7	680	146148.9
Solar	56	5577.0	133	15017.0	259	112001.7	654	141250.7
Wind	0	0.0	0	0.0	0	0.0	17	4629.3
Both	0	0.0	0	0.0	0	0.0	9	268.9
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	1	4800.0
							Requests	Denied*
	Customers	<u>kW</u>	Customers	<u>kW</u>	Customers	<u>kW</u>	Customers	<u>kW</u>
3) Requests Denied	0	0.0	0	0.0	0	0.0	0	0.0
ote:								
evel $1 = $ The new Level $1$	threshold is 25	kVa and not 10	kVa — the thres	shold as of Janua	ry 20, 2017, in	creased the Leve	el 1 criteria to 25	kVa.
This report inclu	des generators «	<10KVA prior to	o that date, and	l <25KVA subse	equent to that d	ate.		
evel 2 = Lab certified inte	erconnection equ	ipment.with name	eplate capacity	less than or equa	al to 2MVA.			
evel 3 = Distributed gene						50kVA if conne	ected to area	
network or less	than or equal to	10 MVA if com	nected to a rad	ial distribution fee	eder.			
evel 4 = Nameplate capa						does not qualify	for a	
					ut not approve	d under a Level	1, 2 or 3 review	•
- Total column reflects to	otals from the inc	eption - April 1,	2008 to currer	nt.				

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

				2021				
				l Report of				
		Ameren	Illinois Comp	pany d/b/a Amer	en Illinois			
	Requests for	r Distributed G	eneration Inte	erconnection (N	et Metering (	Customers Only	)	
	1			ì			,	
	2019 20	019 Data	2010.2	020 Data	2020.2	021 Data		
	+						Tatala aa	~£2 10 21
		2-10-19)		<u>2-10-20)</u>		2-10-21)	Totals as	
1) D . D . 1	Completed	Under Review	Completed	Under Review	Completed	Under Review		Received*
1) Requests Received	569	659	1561	604	2970	731		982
Level 1	513	293	1428	474	2862	655		29
Level 2	56	366	133	130	108	76		053
Level 3	0	0	0	0	0	0		0
Level 4	0	0	0	0	0	0		0
							Requests A	Approved*
	Customers	kW	Customers	kW	Customers	kW	Customers	kW
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> </u>	1 117	<b>O</b> .	1 777	<b>C</b> .	1 777		Denied*
0\ D	Customers	<u>kW</u>	Customers	<u>kW</u>	Customers	<u>kW</u>	Customers	<u>kW</u>
3) Requests Denied	0	0.0	0	0.0			0	0.0
ote:								
evel 1 = The new Level 1	threshold is 25	kVa and not 10	kVa – the thres	shold as of Janua	ry 20, 2017, in	creased the Leve	11 criteria to 25	5 kVa.
	-			d <25KVA subse	_	late.		
evel 2 = Lab certified interpretation of the certified inter		•						
evel 3 = Distributed gene	•					o 50kVA if conne	ected to area	
				ial distribution fee		door not1°C	for a	
.evel 4 = Nameplate capa		than or equal to istribution genera						

		al Report of
	Ameren Illinois Com	npany d/b/a Ameren Illinois
D (6 D)	7 4 10 4 14	C. AT (M. C. C. A. O. I.) which
Requests for Dist	nbuted Generation Inte	rconnection (Net Metering Customers Only)***
		Duration: Time from a Completed Application Until Energy Flov
Customer#		from Project to Grid (Live Date) in Actual Days
1		60
2		345
3		490
5		39
6		72
7		95
8		435
9		354
10		231
11		201
12		47
13 14		495 495
15		493
16		276
17		444
18		163
19		70
20		224
21		283
22		77
23 24		439
25		283
26		232
27		458
28		458
29		518
30		4
31		4
32		132
33 34		73 50
35		302
36		159
37		159
38		171
39		219
40		70
41		148
42		551
43		259
44		126
Assumptions:		
		tion from customer. An application is considered complete when all required en received and application can be forwarded to engineering. (instructions - use
	n the date when the bi-direc	ctional (dual channel) meter is installed or re-programmed. The customer is not
authorized to operate the syst	em until the application has	been reviewed and approved by Engineering, an inspection and site-test completed
		ctions - use column AD in spreadsheet) I channel) meter for every distributed generation installation.
		i channel) meter for every distributed generation installation. ly flow into the grid. These systems were designed for load sharing to reduce billable
energy consumption (e.g. som	e smaller systems were in	stalled in school science labs for educational purposes only.)
<ol><li>Time is represented in actu</li></ol>	al dava not business dava	

		Annual l	
	Ameren	Illinois Compa	ny d/b/a Ameren Illinois
Remests for Dist	ributed Cen	aration Interco	nnection (Net Metering Customers Only)***
Requests for Dist	libuteu Gen	Cration interes	interior (Net Netering Customers Only)
			Duration: Time from a Completed Application Until Energy Flow
Customer#			from Project to Grid (Live Date) in Actual Days
45			161
46			549
47 48			549 491
49			468
50			475
51			606
52			470
53			280
54			128
55			85
56			86
57			532
58 59			535 520
60			489
61			545
62			74
63			575
64			602
65			427
66			190
67			189
68 69			104
70			560 606
71			559
72			608
73			567
74			567
75			615
76			2
77			552
78 79			572
80			208
81			565
82			572
83			575
84			549
85			549
86			616
87			575
88			653
			from customer. An application is considered complete when all required eceived and application can be forwarded to engineering. (instructions - use
Column U in spreadsheet)	·		
			nal (dual channel) meter is installed or re-programmed. The customer is not
			en reviewed and approved by Engineering, an inspection and site-test completed ons - use column AD in spreadsheet)
			annel) meter for every distributed generation installation.
			ow into the grid. These systems were designed for load sharing to reduce billable led in school science labs for educational purposes only.)

		A	2021 nual Repo	rt of						
	Amaran			b/a Amere	n Illinoic					
	Ameren	minois Co	лирану ф	D/a Amere	:II IIIIIOIS					
Requests for D	istributed Gen	eration In	terconnec	tion (Net 1	Metering Customer	s Only)*	**			
Trequests for B						<i>5</i> <b>111</b> <i>3 7</i>				
				Duration	: Time from a Com	pleted A	pplication	Until En	ergy Flow	
Customer#					from Project to Grid	d (Live D	ate) in A	ctual Day	<u>s</u>	
89						632				
90						632				
91 92						576 576				
92						577				
94						573				
95						579				
96						38				
97				579						
98						579				
99						579				
100						153				
101						651				
102						59				
103 104						584				
104						583 634				
106						587				
107						22				
108						311				
109						143				
110				98						
111				575						
112						641				
113				33						
114				157						
115						252				
116						97				
117 118						145 643				
119						603				
120						644				
121						644				
122						164				
123						164				
124						570				
125						449				
126						625				
127						633				
128						837				
129 130						784 644				
131						855				
132						89				
133						244				
Assumptions:  1. The clock will start upor documentation, information Column U in spreadsheet)  2. The clock will end base	, application fees	s, etc. has	peen receiv	ed and appli	ication can be forwarde	ed to engin	neering. (i	nstructions	- use	
authorized to operate the s and a bi-directional (dual cl 3. Ameren Illinois Policy is 4. It should be noted some	nannel) meter ins to install a bi-di	stalled. (Instrectional (d	tructions - ual channel	use column ) meter for e	AD in spreadsheet) every distributed genera	ation insta	llation.			
energy consumption (e.g. s 5. Time is represented in a	ome smaller sys	stems were business da	installed in	school scie	ence labs for education			-		

		nual Repo							
	Ameren Illinois Co	ompany d	/b/a Amere	n Illinois					
Pagnette for Diet	ributed Generation In	toroonno	otion (Not )	Matarina	Cuctomor	s: Only)*	**		
Requests for Dist	ibuted Generation in	штоппес	Luon (Ivet I	viewing	Customer	S Omy)			
			Duration	: Time fr	om a Com	pleted A	pplication	Until En	ergy Flov
Customer#				from Proj	ect to Gri	d (Live D	ate) in A	ctual Day	/ <u>S</u>
134						648			
135 136						437 218			
137						200			
138						104			
139						52			
140						221			
141						617			
142						351			
143						351			
144 145						351			
145						502			
147						180			
148						714			
149						85			
150						501			
151						189			
152						182			
153						153			
154						737			
155 156			204						
157			393						
158						768			
159						223			
160						238			
161						238			
162						736			
163						739			
164 165						73 82			
166						211			
167						28			
168						693			
169						749			
170						711			
171						215			
172						777			
173						948			
174 175						227 852			
176						170			
177						853			
A									
Assumptions:  1. The clock will start upon redocumentation, information, al Column U in spreadsheet)	oplication fees, etc. has I	oeen receiv	ed and appl	ication can	be forwarde	ed to engir	neering. (i	nstructions	s - use
<ol><li>The clock will end based o authorized to operate the syst and a bi-directional (dual chan</li></ol>	em until the application h	nas been re	eviewed and	approved by	y Engineeri				
3. Ameren Illinois Policy is to	install a bi-directional (d	ual channe	l) meter for e	every distrib	outed gener				
It should be noted some sy energy consumption (e.g. som     Time is represented in actu								ing to redu	ce billabl

			nual Repo							
	Ameren	Illinois Co	ompany d/	b/a Amere	n Illinois					
D f D'	-1-4-1C	4° T	4	4° (NT-4.7	Metering Custome	OL-\*'	<b></b>			
Requests for Dis	nbutea Gen	eration in	<b>те гсоппес</b>	tion (Net I	vietering Custome	is Only)***				
				Duration	: Time from a Con	npleted A	plication	Until Ene	rgy Floy	
Customer#					from Project to Gr		•			
178						88				
179						771				
180						676				
181 182						771 136				
183				773 181 777						
184										
185										
186						867				
187						683				
188						683				
189						783				
190						785				
191						187				
192						786				
193 194						542 164				
195						720				
196						794				
197						308				
198						857				
199						799				
200				82						
201						858				
202						887				
203						859				
204						800				
205						860 898				
207						861				
208						301				
209						237				
210						303				
211						155				
212						155				
213						807				
214						809				
215						826				
216 217						323 157				
217						128				
219						83				
220						281				
221						270				
Accumptions										
Assumptions:  1. The clock will start upon r documentation, information, a Column U in spreadsheet)	pplication fee	s, etc. has t	oeen receiv	ed and appli	cation can be forward	led to engin	eering. (ir	structions	- use	
<ol><li>The clock will end based of authorized to operate the system and a bi-directional (dual character)</li></ol>	tem until the a	application h	nas been re	viewed and	approved by Engineer					
Ameren Illinois Policy is to						ration instal	lation.			
It should be noted some senergy consumption (e.g. sor     Time is represented in act	ystems will N	OT have ene	ergy flow in	to the grid. T	These systems were	designed for	load shari	ng to reduc	e billable	

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 Flov						
	Customer#	from Project to Grid (Live Date) in Actual Days						
	222	883 814						
	223							
	224	106						
	225	13						
	226	435						
	227	372						
	228	91						
	229	844						
	230	96						
	231	335						
	232	110						
	233	147						
	234	109 521 70						
	235							
	236							
	237	297						
	238	39						
	239	371						
	240	843 523						
	241							
	242	844 302 218						
	243							
	244							
	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						
	200	1T						
Assu	mptions:							

- 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
- 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							
Customer #	from Project to Grid (Live Date) in Actual Days							
Customer#	nom i roject to Giu (Live Date) in Actual Days							
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 64 99 30 56							
285								
286								
287								
288								
289	23							
290	23							
291	51							
292	23							
293	91 128							
294								
295	32							
293	28							
297	30							
298								
298	72 134							
300	21							
301	13							
302	35							
302	35							
303	27							
304	17							
305	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
- 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.

# Time Required for Connection of Distributed Resources

	A	2021 mual Report of
		Company d/b/a Ameren Illinois
		• •
Requests for Distr	ibuted Generation Ir	nterconnection (Net Metering Customers Only)***
		Duration: Time from a Completed Application Until Energy Flow
Customer#		from Project to Grid (Live Date) in Actual Days
Customer #		nom roject to Glid (Live Date) in Actual Days
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
329 330		51
		90
331		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:		
		lication from customer. An application is considered complete when all required been received and application can be forwarded to engineering. (instructions - use
<ol><li>The clock will end based on authorized to operate the syste and a bi-directional (dual chann</li></ol>	em until the application lel) meter installed. (Installed.	lirectional (dual channel) meter is installed or re-programmed. The customer is not has been reviewed and approved by Engineering, an inspection and site-test completed structions - use column AD in spreadsheet) dual channel) meter for every distributed generation installation.
4. It should be noted some sys	stems will NOT have en	nergy flow into the grid. These systems were designed for load sharing to reduce billable e installed in school science labs for educational purposes only.)

		Annual l	Report of
	Amere		ny d/b/a Ameren Illinois
Requests fo	or Distributed Ge	eneration Interco	nnection (Net Metering Customers Only)***
			Duration: Time from a Completed Application Until Energy Flow
Customer #	<u> </u>		from Project to Grid (Live Date) in Actual Days
<u>Customer #</u>			Hom Floject to Glid (Live Date) in Actual Days
354			52
355			67
356			35
357			92
358 359			34
360			10
361			50
362			89
363			45
364			49
365			56
366			118
367			54
368			47 41
370			49
371			35
372			25
373			21
374			152
375			60
376			132
377 378			35
378			40
380			17
381			31
382			82
383			36
384			139
385			79
386			31
387 388			62
389			24
390			175
391			25
392			52
393			102
394			49
395			138
396			63
397			230
Assumptions:			
	ation, application fe		from customer. An application is considered complete when all required eceived and application can be forwarded to engineering. (instructions - use
2. The clock will end b	pased on the date v		nal (dual channel) meter is installed or re-programmed. The customer is not
			en reviewed and approved by Engineering, an inspection and site-test completed ons - use column AD in spreadsheet)
			annel) meter for every distributed generation installation.
4. It should be noted s	some systems will	NOT have energy fl	ow into the grid. These systems were designed for load sharing to reduce billable
			led in school science labs for educational purposes only.)
Time is represented			at completed their installations from Feb 10, 2020 to Feb 10, 2021.

	An	mual Report of
		Company d/b/a Ameren Illinois
Requests for Distri	buted Generation Ir	nterconnection (Net Metering Customers Only)***
		Duration: Time from a Completed Application Until Energy F
Customer#		from Project to Grid (Live Date) in Actual Days
***		
398 399		67
400		92
401		171
402		42
403		161
404		67
405		92
406		67
407		92
409		48
410		17
411		116
412		38
413		43 60
415		64
416		34
417		67
418		45
419		32
420		169
421 422		121 32
423		309
424		106
425		24
426		19
427		48
428 429		14 77
430		77
431		10
432		46
433		59
434		13 92
435		17
437		37
438		127
439		48
440		107
441		59
Assumptions:		
		lication from customer. An application is considered complete when all required been received and application can be forwarded to engineering. (instructions - use
2. The clock will end based on		lirectional (dual channel) meter is installed or re-programmed. The customer is not
		has been reviewed and approved by Engineering, an inspection and site-test complet structions - use column AD in spreadsheet)
		dual channel) meter for every distributed generation installation.
		ergy flow into the grid. These systems were designed for load sharing to reduce billal e installed in school science labs for educational purposes only.)

		Annual Rep						
	Ameren Illin	ois Company o	d/b/a Amere	en Illinois				
Pagnets for Dist	ributed Concret	ion Interconne	etion (Not )	Metering Custome	nc Only)***			
Requests for Dist	indied General	ion micromic	CHOII (IVEL)	vietering Customer	S Omy)			
			Duration	: Time from a Con	pleted Appl	ication U	J <b>ntil Ene</b>	rgy Flov
Customer#				from Project to Gri	d (Live Date	e) in Act	ual Days	<u>.</u>
442					176			
443					115 167			
445					57			
446					14			
447					79			
448					36			
449					37			
450					52			
451					69			
452					133			
453					265			
454 455					138 132			
456					55			
457					59			
458					180			
459					35			
460					45			
461					257			
462					186			
463					189			
464 465					133 36			
465					6			
467					11			
468					29			
469					95			
470					62			
471					75			
472					126			
473					49			
474					45			
475 476					58 171			
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 redocumentation, information, al								
Column U in spreadsheet)  2. The clock will end based of authorized to operate the syst	em until the applic	ation has been r	eviewed and	approved by Engineeri				
and a bi-directional (dual chan					ation installed	ion		
Ameren Illinois Policy is to     It should be noted some sy energy consumption (e.g. som	stems will NOT ha	ave energy flow in	nto the grid.	These systems were o	lesigned for lo	ad sharin	g to reduc	e billable

	A Completed Application Until Energy Flow to Grid (Live Date) in Actual Days
Requests for Distributed Generation Interconnection (Net Metering Cu    Duration: Time from from Project	a Completed Application Until Energy Flow to Grid (Live Date) in Actual Days  70 153 31 83 62 55 74 116 105 51 116 24 69 24 75 123
Customer # From Project  486  487  488  489  490  491  492  493  494  495  496  497  498  499  500  501  502  503  504  505  506  507  508  509  510  511  512  513  514	a Completed Application Until Energy Flow to Grid (Live Date) in Actual Days  70 153 31 83 62 55 74 116 105 51 116 24 69 24 75 123
Customer # From Project  486  487  488  489  490  491  492  493  494  495  496  497  498  499  500  501  502  503  504  505  506  507  508  509  510  511  512  513  514	a Completed Application Until Energy Flow to Grid (Live Date) in Actual Days  70 153 31 83 62 55 74 116 105 51 116 24 69 24 75 123
Customer #         from Project           486         487           488         488           489         490           491         492           493         494           495         496           497         498           499         500           501         502           503         504           505         506           507         508           509         510           512         513           514         515	70 153 31 83 62 55 74 116 105 51 116 24 69 24 75 123
486  487  488  489  490  491  491  492  493  494  495  496  497  498  499  500  501  502  503  504  505  506  507  508  509  510  511  512  513  514	70 153 31 83 62 55 74 116 105 51 116 24 69 24 75 123
487 488 489 490 491 491 492 493 494 495 496 497 498 499 500 501 501 502 503 504 504 505 506 507 508 509 510 511 511 512 513	153 31 83 62 55 74 116 105 51 116 24 69 24 75 123
487 488 489 490 490 491 491 492 493 494 495 496 497 498 499 500 501 501 502 503 503 504 505 506 507 508 509 510 511 512 513	153 31 83 62 55 74 116 105 51 116 24 69 24 75
488 489 490 490 491 491 492 493 494 495 496 497 498 499 500 501 501 502 503 503 504 504 505 506 507 508 509 510 511 512 513	31 83 62 55 74 116 105 51 116 24 69 24 75
489         490         491         492         493         494         495         496         497         498         499         500         501         502         503         504         505         506         507         508         509         511         512         513         514         515	83 62 55 74 116 105 51 116 24 69 24 75
490         491         492         493         494         495         496         497         498         499         500         501         502         503         504         505         506         507         508         509         511         512         513         514         515	62 55 74 116 105 51 116 24 69 24 75 123
492         493         494         495         496         497         498         499         500         501         502         503         504         505         506         507         508         509         510         512         513         514         515	74 116 105 51 116 24 69 24 75
493         494         495         496         497         498         499         500         501         502         503         504         505         506         507         508         509         510         512         513         514         515	116 105 51 116 24 69 24 75
494         495         496         497         498         499         500         501         502         503         504         505         506         507         508         509         511         512         513         514         515	105 51 116 24 69 24 75 123
495         496         497         498         499         500         501         502         503         504         505         506         507         508         509         511         512         513         514         515	51 116 24 69 24 75 123
496         497         498         499         500         501         502         503         504         505         506         507         508         509         510         512         513         514         515	116 24 69 24 75 123
497         498         499         500         501         502         503         504         505         506         507         508         509         510         512         513         514         515	24 69 24 75 123
498         499         500         501         502         503         504         505         506         507         508         509         510         512         513         514         515	69 24 75 123
499       500       501       502       503       504       505       506       507       508       509       510       511       512       513       514       515	24 75 123
500       501       502       503       504       505       506       507       508       509       510       511       512       513       514       515	75 123
502       503       504       505       506       507       508       509       510       511       512       513       514       515	
503 504 505 506 507 508 509 510 511 512 513 514 515	71
504 505 506 507 508 509 510 511 512 513 514 515	
505 506 507 508 509 510 511 512 513 514 515	98
506 507 508 509 510 511 512 513 514 515	162
507 508 509 510 511 512 513 514 515	18
508 509 510 511 512 513 514 515	92
509 510 511 512 513 514 515	22
510 511 512 513 514 515	55
511 512 513 514 515	21
513 514 515	18
514 515	49
515	7
	35
516	194
7.5	42
517 518	70 185
518	69
520	113
521	141
522	107
523	125
524	40
525	44
526	28
527	129
528 529	71 19
327	17
Assumptions:	
<ol> <li>The clock will start upon receipt of a complete application from customer. An application documentation, information, application fees, etc. has been received and application can be Column Lti or programmer.</li> </ol>	
Column U in spreadsheet)  2. The clock will end based on the date when the bi-directional (dual channel) meter is insta	
authorized to operate the system until the application has been reviewed and approved by E	forwarded to engineering. (instructions - use
and a bi-directional (dual channel) meter installed. (Instructions - use column AD in spreads	forwarded to engineering. (instructions - use lled or re-programmed. The customer is not ngineering, an inspection and site-test completed
Ameren Illinois Policy is to install a bi-directional (dual channel) meter for every distribute     It should be noted some systems will NOT have energy flow into the grid. These systems	forwarded to engineering. (instructions - use illed or re-programmed. The customer is not ngineering, an inspection and site-test completed heet)
It is snould be noted some systems will NOT have energy now into the grid. These systems energy consumption (e.g. some smaller systems were installed in school science labs for e     Time is represented in actual days, not business days.	forwarded to engineering. (instructions - use lled or re-programmed. The customer is not agineering, an inspection and site-test completed heet) d generation installation.

		A	2021	-4 of						
	Amaran		nual Repo	n oi b/a Amere	n Illinois					
	Ameren	minois Co	трану и	D/a Amere	ii iiiiiois					
Requests for Dist	ributed Gen	eration In	terconnec	tion (Net 1	Metering	Customer	s Only)*	**		
				Duration	: Time fr	om a Com	pleted A	pplication	Until Ene	rgy Flow
Customer#					from Proj	ect to Gri	d (Live D	ate) in A	ctual Days	<u>s</u>
530							145			
531							82			
532							40			
533							107			
534							62			
535							24			
536							69			
537							42			
538 539							42 22			
540							99			
541							79			
542							34			
543							83			
544							56			
545							34			
546 547							120 19			
548							135			
549							134			
550							62			
551							63			
552							120			
553							28			
554 555							222 26			
556							64			
557							47			
558							145			
559							47			
560							29			
561							161			
562 563							76 161			
564							218			
565							42			
566							180			
567							36			
568							23			
569							76 19			
570 571							41			
572							64			
573							22			
Assumptions:										
The clock will start upon re										
documentation, information, a	pplication fees	s, etc. has t	peen receive	ed and appli	ication can	be forwarde	d to engin	eering. (ii	nstructions	- use
Column U in spreadsheet)  2. The clock will end based of	n the date wh	en the bi-di	rectional (di	ual channel	meter is ir	nstalled or re	e-program	med. The o	ustomer is	not
authorized to operate the sys	em until the a	pplication h	as been re	viewed and	approved by	y Engineerir				
and a bi-directional (dual char							ation inst-	llation		
Ameren Illinois Policy is to     It should be noted some s					-				ina to reduc	e billahl
energy consumption (e.g. sor										. J J.IIGDIC
5. Time is represented in act										

		Am	2021 nual Repo	rt of						
	Ameren			b/a Amere	n Illinois					
	Ameren	illilois C	лирану ч	D/a Amero	ii iiiiiois					
Requests for Di	stributed Gen	eration In	terconnec	tion (Net )	Metering	Customers	Only)**	**		
1 1					8		- 5/			
				Duration	: Time fr	om a Com	oleted Ar	plication	Until En	ergy Flov
Customer#					from Pro	ject to Grid	(Live D	ate) in A	ctual Day	<u>'S</u>
574							26			
574 575							36 146			
576							48			
577							37			
578							53			
579							83			
580							47			
581							17			
582							38			
583 584							52 177			
585							120			
586							77			
587							30			
588							37			
589							89			
590							30			
591							194			
592							42			
593 594							91 91			
595							159			
596							57			
597							128			
598							37			
599							82			
600							83			
601							16			
602							43			
603							70			
605							52 82			
606							143			
607							54			
608							6			
609							35			
610							55			
611							38			
612							55			
613							44 11			
615							145			
616							49			
617							45			
Accumenting										
Assumptions:  1. The clock will start upon	receipt of a sec-	nloto cast	cation from	ouetoma:	An opplie	tion is care!	dored as-	nnlete ·····	n all receive	rod
documentation, information,										
Column U in spreadsheet)										
2. The clock will end based										
authorized to operate the sy and a bi-directional (dual ch							g, an insp	ection and	site-test o	completed
Ameren Illinois Policy is							tion instal	lation.		
4. It should be noted some									ing to redu	ce billable
energy consumption (e.g. s				school scie	ence labs for	or education	al purpose	es only.)		
<ol><li>Time is represented in a</li></ol>	crual days not b	nusiness da	11/5							

		Am	2021 nual Repo	rt of						
	Ameren			b/a Amere	n Illinois					
	Ameren	illilois C	лирану ч/	D/a Amer	ii iiiiiois					
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net	Metering	Customers	Only)**	**		
							- 37			
				Duration	: Time fr	om a Comp	leted Ar	plication	Until En	ergy Flov
Customer#					from Pro	ject to Grid	(Live D	ate) in A	ctual Day	<u>'S</u>
618							48			
619							38			
620 621							44 128			
622							35			
623							14			
624							126			
625							128			
626							59			
627							21			
628							30			
629							17			
630							126			
631							41			
632 633							185 50			
634							22			
635							88			
636							36			
637							64			
638							91			
639							35			
640							7			
641							65			
642 643							92 16			
644							55			
645							26			
646							143			
647							44			
648							154			
649							14			
650							14			
651 652							36 51			
653							18			
654							94			
655							31			
656							41			
657							27			
658							48			
659							83			
660							108			
661							55			
Assumptions:										
The clock will start upon documentation, information, Column U in spreadsheet)										
The clock will end based authorized to operate the system.	stem until the a	pplication h	nas been re	viewed and	approved b	y Engineering				
and a bi-directional (dual cha 3. Ameren Illinois Policy is t							tion instal	lation		
It should be noted some s				•	-				ing to redu	ce billable
energy consumption (e.g. so 5. Time is represented in ac	me smaller sys	stems were	installed in							

	Customer # 662 663 664 665 666 667			Illinois Co		b/a Amere		Customers	Only)**	**			
	Customer #  662 663 664 665 666					ction (Net I		Customers	Only)**	**			
	Customer #  662 663 664 665 666		uted Gen	eration In	terconnec		Metering	Customers	Only)**	**			
	Customer #  662 663 664 665 666		uted Gen	erauon in	terconnec		vietering	Customers	Ошу)***				
	662 663 664 665 666	ŧ.											
	662 663 664 665 666	<u> </u>				Duration	· Time fr	om a Compl	atad Ar	mlication	   Until Enc	ray Flor	
	662 663 664 665 666							ject to Grid (					
	663 664 665 666						110111110	ect to Gra	LIVE D	att / III At	tuai Day	<u> </u>	
	664 665 666								137				
	665 666								31				
	666								97				
									67				
	667								50				
	007								20				
	668								66				
	669								70				
	670								55				
	671								38				
	672								20				
-	673 674								87 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				
	689 690								22 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:												
	The clock will start documentation, information  Column U in spreadshop	ation, appli											
2	2. The clock will end bauthorized to operate tand a bi-directional (du	pased on the he system	until the a	pplication h	as been re	viewed and	approved b	y Engineering,					
	3. Ameren Illinois Poli								on instal	lation.			
2	4. It should be noted senergy consumption (e.s. Time is represented	some syste e.g. some s	ems will NO smaller sys	OT have ene	ergy flow int installed in	to the grid. 7	These syst	ems were des	igned for	load shari	ng to redu	ce billable	

		Apr	2021 nual Repo	rt of						
	Ameren			b/a Amere	n Illinois					
	Ameren	imiois Co	mpany w	by a Time IC	ii iiiiiois					
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net	Metering	Customers C	Only)***	ŧ		
G . "						om a Comple				
Customer#					from Pro	ject to Grid (1	Live Da	te) in Ac	tual Day	<u>s</u>
706					1		164			
707							38			
708							105			
709							15			
710 711							145 63			
711							20			
713							63			
714							21			
715							87			
716							21			
717							131			
718 719							102 99			
719							99			
721							74			
722							62			
723							57			
724							54			
725 726							54 49			
727							39			
728							33			
729							21			
730							16			
731							29			
732							160			
733 734							148 59			
735							118			
736							38			
737							165			
738							91			
739							74			
740							17			
741 742							63 178			
743							186			
744							165			
745							97			
746							74			
747							6			
748 749							45 34			
14)							J-			
Assumptions:		1								
The clock will start upon a documentation, information, a Column II in approach best.										
Column U in spreadsheet)  2. The clock will end based	on the date who	en the bi-dir	rectional (d	ual channel	) meter is i	nstalled or re-n	rogramm	ed. The c	ustomer is	not
authorized to operate the sys	tem until the a	pplication h	as been re	viewed and	approved b	y Engineering,				
and a bi-directional (dual cha							n inctall-	tion		
Ameren Illinois Policy is t     It should be noted some s				•	-				ng to redu	ce billable
energy consumption (e.g. so	me smaller sys	stems were	installed in						J . 2 . 0 . 0 . 0	
5. Time is represented in ac	ual days, not b	ousiness da	IVS.							

	202 Annual Re	port of						
	Ameren Illinois Company							
	Ameren minois company	Word Afficient filmois						
Requests for Dis	ributed Generation Intercom	ection (Net Metering Customers Only)***						
1 1								
		Duration: Time from a Completed App	lication Until Energy Flor					
Customer#		from Project to Grid (Live Dat	e) in Actual Days					
750		41						
751		151						
752		27						
753		32						
754		68						
755		12						
756		71						
757		41						
758 759		12						
760		47 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						
783 784		13						
785		76						
786		8						
787		83						
788		29						
789		21						
790		148						
791		87						
792		111						
793		171						
Assumptions:								
		m customer. An application is considered comp ived and application can be forwarded to enginee						
<ol><li>The clock will end based authorized to operate the sys and a bi-directional (dual cha</li></ol>	tem until the application has beer nnel) meter installed. (Instruction:	(dual channel) meter is installed or re-programme reviewed and approved by Engineering, an inspec - use column AD in spreadsheet) el) meter for every distributed generation installat	ction and site-test completed					
		nto the grid. These systems were designed for lo						
energy consumption (e.g. so	ne smaller systems were installe	in school science labs for educational purposes						
5. Time is represented in ac	ual dave not business dave							

		A	2021	-4 - C						
	Amaran		nual Repo	rt oi b/a Amere	n Illinoic					
	Ameren	minois Co	трану и	D/a Amere	in miniois					
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net 1	Metering	Customer	s Only)*	**		
						om a Com				
Customer#					from Pro	ect to Gri	l (Live D	ate) in A	ctual Days	3
794							79			
795							52			
796							234			
797							25			
798							34			
799							20			
800							28			
801 802							25 30			
803							50			
804							71			
805							173			
806							30			
807							64			
808							43			
809 810							20 15			
811							23			
812							154			
813							55			
814							182			
815							21			
816							71			
817 818							78			
819							56 50			
820							108			
821							33			
822							36			
823							66			
824							88			
825 826							77 41			
827							10			
828							25			
829							70			
830							11			
831							25			
832							56			
833 834							55 132			
835							12			
836							55			
837							32			
Assumptions:										
1. The clock will start upon r	eceipt of a con	nplete appli	cation from	customer.	An applica	ition is cons	idered cor	nplete whe	n all require	ed
documentation, information, a										
Column U in spreadsheet)  2. The clock will end based	on the date wh	en the hi-di	rectional (d	ual channel	) meter is i	nstalled or r	a-nrnaram	med The c	ustomer is	not
authorized to operate the sys										
and a bi-directional (dual cha										
	1 1 1 1 1 1 1 1	44					4.4			
3. Ameren Illinois Policy is t					-				ing to roduc	a hillahla
	ystems will NO	OT have ene	ergy flow int	o the grid.	These syst	ems were de	esigned fo	r load shar	ing to reduc	e billable

		2021 Annual Report of			
	Ameren Illino	s Company d/b/a Ameren l	Illinois		
Requests for Distrit	outed Generation	n Interconnection (Net Me	etering Customers Only)	***	
		Duration: 7	Fime from a Completed	Application Until E	Energy Flow
Customer#		fro	om Project to Grid (Live	Date) in Actual D	ays
838			183		
839			49		
840			60		
841			54		
842 843			54 20		
844			15		
845			99		
846			85		
847 848			54 49		
849			84		
850			50		
851			55		
852 853			37 85		
854			86		
855			68		
856			76		
857			37		
858 859			55 43		
860			22		
861			55		
862			56		
863 864			91		
865			59		
866			94		
867			23		
868			39		
869 870					
871			49		
872			39		
873			183		
874 875			63		
876			112		
877			40		
878			50		
879 880			31		
881			44		
Assumptions:					
Assumptions:  1. The clock will start upon recedocumentation, information, app Column U in spreadsheet)	lication fees, etc.	has been received and applicat	tion can be forwarded to eng	ineering. (instruction	ns - use
The clock will end based on tauthorized to operate the system and a bi-directional (dual channe).     Ameren Illinois Policy is to in	n until the applica l) meter installed	ion has been reviewed and app (Instructions - use column AD	proved by Engineering, an ins D in spreadsheet)	spection and site-tes	
It should be noted some syst energy consumption (e.g. some     Time is represented in actual	ems will NOT has smaller systems	e energy flow into the grid. The were installed in school science	ese systems were designed	for load sharing to re	duce billable

		Report of
		any d/b/a Ameren Illinois
Doguests for Distri	vutad Canaration Interes	connection (Net Metering Customers Only)***
Kequests for Distri	dited Generation Interc	omection (Net Wetering Customers Only)
Customer#		<u>Duration: Time from a Completed Application Until Energy Flow</u> <u>from Project to Grid (Live Date) in Actual Days</u>
882		96
883		49
884		49
885 886		28 216
887		140
888		54
889		67
890 891		49 8
892		68
893		28
894		41
895 896		86
897		63
898		62
899 900		103 15
900		15
902		103
903		41
904		35 225
905		46
907		66
908		8
909		15 59
911		99
912		98
913		92
914 915		18 85
916		92
917		68
918 919		69
920		63
921		35
922		35
923 924		30 35
925		25
Assumptions:		
The clock will start upon recedocumentation, information, app Column U in spreadsheet)	lication fees, etc. has been	on from customer. An application is considered complete when all required a received and application can be forwarded to engineering. (instructions - use
authorized to operate the system and a bi-directional (dual channel	n until the application has be al) meter installed. (Instruc	onal (dual channel) meter is installed or re-programmed. The customer is not been reviewed and approved by Engineering, an inspection and site-test completed tions - use column AD in spreadsheet properties for one wide this test of control of the control of
4. It should be noted some syst	ems will NOT have energy	channel) meter for every distributed generation installation. flow into the grid. These systems were designed for load sharing to reduce billable alled in school science labs for educational purposes only.)

		A	2021	nd of						
	Ameren		nual Repo	rι οι b∕a Amere	n Illinois					
	Ameren	illiois C	лирану и	D/a AIICIC	II IIIIIOIS					
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net l	Metering	Custome	rs Only)*:	**		
						rom a Con				
Customer#					from Pro	ject to Gri	d (Live D	ate) in A	ctual Day	<u>s</u>
926							36			
927							74			
928							89			
929							75			
930							16			
931							51			
932							65			
933 934							52 70			
935							69			
936							40			
937							377			
938							27			
939							56			
940							155			
941 942							9 57			
942							69			
944							52			
945							36			
946							183			
947							32			
948							92			
949							15			
950 951							92 72			
952							37			
953							8			
954							44			
955							49			
956							57			
957							54			
958							54			
959 960							57 46			
961							54			
962							203			
963							18			
964							62			
965							116			
966							54			
967							174 76			
968 969							41			
,,,,										
Assumptions:		 	notion for		An ac-!!	 	 	nnlete ····	 	
<ol> <li>The clock will start upon r documentation, information, a</li> </ol>										
Column U in spreadsheet)										
The clock will end based of authorized to operate the system.										
authorized to operate the sys and a bi-directional (dual cha							ııg, an insp	bection and	a site-test o	ompleted
Ameren Illinois Policy is to							ation insta	llation.		
4. It should be noted some s									ing to redu	ce billable
energy consumption (e.g. sol 5. Time is represented in act				school scie	ence labs f	or education	nal purpose	es only.)		
*** - This represents the total				mnleted thei	r installatio	one from Fe	h 10 2020	to Feb 10	2021	

		A	2021 nual Repo	rt of						
	Amoron			rt oi b/a Amere	n Illinoic					
	Ameren	Illinois Co	лирану и	D/a Amere	II IIIIIIOIS					
Requests for Dist	ributed Gen	eration In	terconnec	tion (Net I	Metering	Customer	rs Only)*	**		
				<b>Duration</b>	: Time fr	om a Con	pleted A	pplication	Until Ene	rgy Flo
Customer#					from Pro	ect to Gri	d (Live D	ate) in A	ctual Day	<u>s</u>
070							222			
970 971							222 77			
972							69			
973							88			
974							36			
975							76			
976							100			
977							41			
978							54			
979							8			
980 981							54 55			
981							15			
983							82			
984							56			
985							48			
986							246			
987							83			
988							149			
989							69			
990							66 108			
992							39			
993							71			
994							57			
995							78			
996							71			
997							22			
998							63			
999							65			
1000							74 42			
1001							20			
1003							25			
1004							33			
1005							85			
1006							70			
1007							123			
1008							65			
1009							41			
1010 1011							85 86			
1011							41			
1013							86			
A										
Assumptions:		   "			An ac-!!	diam is	 	nnlate ····	n all r==::	
<ol> <li>The clock will start upon re documentation, information, a</li> </ol>	•							•		
Column U in spreadsheet)										
The clock will end based o     with prized to energte the system										
authorized to operate the syst and a bi-directional (dual chan							ng, an insp	ection and	i sile-test c	ompieted
Ameren Illinois Policy is to							ation instal	llation.		
4. It should be noted some sy									ing to reduc	ce billable
energy consumption (e.g. som 5. Time is represented in actu				school scie	ence labs f	or education	nal purpose	es only.)		
*** - This represented in actu										

		A 22-	2021 wal Repo	rt of						
	Ameren			h oi b/a Amere	n Illinois					
	Ameren	Illinois Co	mpany u	b/a Amere	on miniois					
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net 1	Metering	Customer	s Only)*	**		
					: Time fr					
Customer#					from Proj	ect to Gri	d (Live L	Date) in A	ctual Day	<u>s</u>
1014							22			
1015							71			
1016							45			
1017							36			
1018 1019							162 41			
1020							36			
1021							195			
1022							44			
1023							19			
1024 1025							68 48			
1025							48			
1027							50			
1028							71			
1029							33			
1030							33			
1031 1032							61 19			
1032							185			
1034							160			
1035							126			
1036							19			
1037							195			
1038 1039							160 95			
1040							112			
1041							22			
1042							55			
1043							69			
1044 1045							67 37			
1045							64			
1047							67			
1048							93			
1049							60			
1050							75			
1051 1052							149 224			
1053							136			
1054							82			
1055							64			
1056							64			
1057					1		93			
Assumptions:										
The clock will start upon documentation, information, Column U in spreadsheet)	application fees	s, etc. has b	een receiv	ed and appli	ication can	be forwarde	ed to engir	neering. (i	nstructions	- use
<ol><li>The clock will end based authorized to operate the sys and a bi-directional (dual cha</li></ol>	tem until the a	pplication h	as been re	viewed and	approved by	y Engineerir				
Ameren Illinois Policy is t							ation insta	llation.		
It should be noted some senergy consumption (e.g. so     Time is represented in ac	ystems will No me smaller sys	OT have ene stems were	ergy flow int installed in	to the grid. T	These syste	ems were de	esigned fo	r load shar	ing to redu	ce billabl

		2021 nual Report of				
	Ameren Illinois C	ompany d/b/a Amere	n Illinois			
Requests for Distri	buted Generation I	nterconnection (Net I	Metering Customers Onl	y)***		
Customer#			Time from a Complete from Project to Grid (Liv			
1058			7	1		
1059			49			
1060			30			
1061			64			
1062 1063			30 50			
1064			64			
1065			55			
1066 1067			59			
1068			20			
1069			28			
1070 1071			4°			
1071			50			
1073			33			
1074			90			
1075 1076			29			
1076			30			
1078			18			
1079			85			
1080 1081			4.			
1082			44			
1083			9°			
1084			7			
1085 1086						
1087			60			
1088			49	9		
1089			62			
1090 1091			2:			
1092			78			
1093			20	)		
1094			5′			
1095 1096						
1097			7			
1098			78			
1099 1100			7			
1100			<i>.</i> 7			
Assumptions:						
The clock will start upon recodocumentation, information, approximation approxima						
<ol><li>The clock will end based on authorized to operate the syster and a bi-directional (dual channel</li></ol>	m until the application el) meter installed. (Ins	has been reviewed and a structions - use column	approved by Engineering, an AD in spreadsheet)	inspection and		
Ameren Illinois Policy is to it     It should be noted some systemergy consumption (e.g. some     Time is represented in actual.)	tems will NOT have en	ergy flow into the grid. T	hese systems were designe	d for load shar	ing to reduce	e billable

		2021 al Report of
An		pany d/b/a Ameren Illinois
Requests for Distribute	d Generation Inter	connection (Net Metering Customers Only)***
<b>T</b>		
Customer#		Duration: Time from a Completed Application Until Energy Flo from Project to Grid (Live Date) in Actual Days
1102		
1102 1103		22 47
1104		64
1105		25
1106		92
1107 1108		
1109		129
1110		111
1111		38
1112 1113		24 59
1113		160
1115		85
1116		28
1117 1118		39 37
1119		29
1120		126
1121		48
1122 1123		105 83
1123		27
1125		65
1126		59
1127 1128		121 40
1126		19
1130		14
1131		57
1132 1133		61
1133		127
1135		28
1136		44
1137 1138		30
1136		85 76
1140		24
1141		66
1142 1143		24 36
1143		30
1145		80
Assumptions:		
		ion from customer. An application is considered complete when all required in received and application can be forwarded to engineering. (instructions - use
authorized to operate the system unt and a bi-directional (dual channel) me	til the application has eter installed. (Instruc	tional (dual channel) meter is installed or re-programmed. The customer is not been reviewed and approved by Engineering, an inspection and site-test complete ctions - use column AD in spreadsheet)
It should be noted some systems energy consumption (e.g. some sma	will NOT have energy aller systems were ins	channel) meter for every distributed generation installation.  If flow into the grid. These systems were designed for load sharing to reduce billable stalled in school science labs for educational purposes only.)
energy consumption (e.g. some sma 5. Time is represented in actual days	ller systems were ins s, not business days.	stalled in school science labs for educational purposes only.)

	2021 Annual Rep	ort of					
Aı	meren Illinois Company o		n Illinois				
Requests for Distribute	ed Generation Interconne	ction (Net	Metering Customer	s Only)*	**		
		Duration	: Time from a Com				
Customer #			from Project to Gri	d (Live D	ate) in Ac	tual Day	<u>s</u>
1146				27			
1147				57			
1148				67			
1149				70			
1150				7			
1151				81			
1152				28			
1153				28			
1154				71			
1155 1156				71 44			
1150				145			
1158				61			
1159				49			
1160				127			
1161				44			
1162				26			
1163				34			
1164 1165				72 44			
1166				43			
1167				100			
1168				146			
1169				128			
1170				34			
1171				64			
1172				73			
1173 1174				36 41			
1174				22			
1176				111			
1177				23			
1178				31			
1179				47			
1180				39			
1181				39			
1182 1183				294 72			
1184				60			
1185				55			
1186				78			
1187				46			
1188				23			
1189				31	1		
Assumptions:							
The clock will start upon receipt of documentation, information, applicat Column U in spreadsheet)							
2. The clock will end based on the cauthorized to operate the system unand a bi-directional (dual channel) m	ntil the application has been reter installed. (Instructions	reviewed and - use column	approved by Engineering AD in spreadsheet)	ng, an insp	ection and		
<ol> <li>Ameren Illinois Policy is to instal</li> <li>It should be noted some systems energy consumption (e.g. some small)</li> <li>Time is represented in actual day</li> </ol>	s will NOT have energy flow in aller systems were installed i	nto the grid.	These systems were d	esigned for	load shari	ng to reduc	e billabl

		A	2021	ut of						
	Ameren		nual Repo	rt oi b/a Amere	n Illinois					
	Ameren	Illinois Co	лирану и	D/a Amere	ii iiiiiois					
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net 1	Metering	Customer	rs Only)*	**		
						om a Con				
Customer#					from Proj	ect to Gri	d (Live D	ate) in A	tual Days	<u>s</u>
1190							19			
1191							36			
1192							73			
1193							32			
1194							65			
1195							32			
1196 1197							61 31			
1197							313			
1199							36			
1200							61			
1201							91			
1202							90			
1203 1204							107 182			
1204							46			
1206							81			
1207							52			
1208							39			
1209							36			
1210							225			
1211 1212							47 58			
1212							192			
1214							42			
1215							56			
1216							58			
1217							35			
1218							36			
1219 1220							67 169			
1221							80			
1222							67			
1223							33			
1224							62			
1225							6			
1226 1227							35 121			
1228							33			
1229							131			
1230							30			
1231							82			
1232							67			
1233							96			
Assumptions:										
<ol> <li>The clock will start upon documentation, information, Column U in spreadsheet)</li> </ol>										
2. The clock will end based										
authorized to operate the sys							ng, an insp	ection and	site-test c	ompleted
and a bi-directional (dual cha 3. Ameren Illinois Policy is t							ation instal	llation.		
4. It should be noted some s	ystems will NO	OT have ene	ergy flow int	o the grid.	These syste	ems were d	lesigned for	r load shari	ng to reduc	e billable
energy consumption (e.g. so				school scie	ence labs fo	or education	nal purpose	es only.)		
5. Time is represented in ac				malatad tha	ir inatallatia	no from Eo	h 10 2020	40 Fab 10	2024	

	Annual Rep	port of
Am	eren Illinois Company	
TAILE	cren minois company	WWW MIRCLE IMMORS
Requests for Distributed	Generation Interconn	ection (Net Metering Customers Only)***
		<b>Duration: Time from a Completed Application Until Energy Flor</b>
Customer #		from Project to Grid (Live Date) in Actual Days
1224		47
1234 1235		47 57
1236		223
1237		33
1238		59
1239		112
1240		51
1241		76
1242		23
1243 1244		29 24
1244		39
1245		37
1247		53
1248		60
1249		58
1250		26
1251		185
1252 1253		35 45
1254		70
1255		224
1256		32
1257		26
1258		39
1259		43
1260		58
1261 1262		93
1263		103
1264		66
1265		28
1266		22
1267		20
1268		41
1269		174
1270 1271		41 30
1271		14
1273		41
1274		98
1275		174
1276		89
1277		42
Assumptions:		
documentation, information, applicatio Column U in spreadsheet)	n fees, etc. has been rece	m customer. An application is considered complete when all required sived and application can be forwarded to engineering. (instructions - use
	the application has been	(dual channel) meter is installed or re-programmed. The customer is not reviewed and approved by Engineering, an inspection and site-test complete - use column AD in spreadsheet)
		nel) meter for every distributed generation installation.
4. It should be noted some systems v	will NOT have energy flow	into the grid. These systems were designed for load sharing to reduce billab
lanaray concumption (a.g. come amall	or avatama ware installed	in school science labs for educational purposes only.)

	202 Annual R	
	Ameren Illinois Compan	
Remests for Distribut	ed Generation Intercon	nnection (Net Metering Customers Only)***
Requests for Distribution	cu Generation Intercon	meeton (iver increasing customers only)
Customer#		Duration: Time from a Completed Application Until Energy F from Project to Grid (Live Date) in Actual Days
1278 1279		33
1279		89 34
1281		113
1282		106
1283		42
1284 1285		37
1285		87
1287		129
1288		104
1289		37
1290		89
1291 1292		66
1293		144
1294		28
1295		30
1296 1297		99
1297		30
1299		44
1300		49
1301		42
1302 1303		53
1303		43
1305		22
1306		38
1307		18
1308 1309		67
1310		59
1311		90
1312		89
1313		77
1314 1315		126 128
1316		134
1317		149
1318		149
1319 1320		149 317
1321		95
-		
Assumptions:		
The clock will start upon receipt documentation, information, application.  Column U in spreadsheet)	ation fees, etc. has been re	from customer. An application is considered complete when all required acceived and application can be forwarded to engineering. (instructions - use
authorized to operate the system u and a bi-directional (dual channel)	ntil the application has bee meter installed. (Instruction	al (dual channel) meter is installed or re-programmed. The customer is not en reviewed and approved by Engineering, an inspection and site-test complet ns - use column AD in spreadsheet)
4. It should be noted some system	ns will NOT have energy flow naller systems were installe	annel) meter for every distributed generation installation.  w into the grid. These systems were designed for load sharing to reduce billal  ed in school science labs for educational purposes only.)

		A	2021 nual Repo	rt of					
	Amoron			rt oi b/a Amere	n Illinois				
	Ameren	minois Co	лирану и	D/a Amere	en minois				
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net )	Metering	Customers On	lv)***		
1									
				Duration	: Time fr	om a Complete	d Application	n Until Ene	ergy Flov
Customer#					from Pro	ject to Grid (Li	ve Date) in A	ctual Day	<u>s</u>
1222							7		
1322 1323						2 9			
1323						4			
1325						4			
1326							16		
1327						15	55		
1328						9	9		
1329						3			
1330						3			
1331						3			
1332 1333						4			
1334						4			
1335						11			
1336						5			
1337						2			
1338						2			
1339						7			
1340						7			
1341						9			
1342						11			
1343						12			
1344						11			
1346						7			
1347							<u>.</u> 4		
1348						6			
1349						2	0		
1350						4	1		
1351						4			
1352						5			
1353						3			
1354 1355						5			
1356						4 7			
1357						25			
1358						22			
1359							35		
1360						13	33		
1361						9	8		
1362						6			
1363						7			
1364							4		
1365						5	1		
Assumptions:									
<ol> <li>The clock will start upon r documentation, information, a Column U in spreadsheet)</li> </ol>									
2. The clock will end based									
authorized to operate the sys and a bi-directional (dual cha							inspection an	d site-test o	completed
Ameren Illinois Policy is to							nstallation.		
4. It should be noted some s	ystems will NO	OT have en	ergy flow int	to the grid.	These syst	ems were design	ed for load sha	ring to redu	ce billable
energy consumption (e.g. so				school scie	ence labs f	or educational pur	poses only.)		
<ol> <li>Time is represented in act</li> <li>*** - This represents the total</li> </ol>									

	Annu	al Report of
Ar		pany d/b/a Ameren Illinois
731	ikicii ilililois coli	ipany word mikici mikos
Requests for Distribute	d Generation Inte	rconnection (Net Metering Customers Only)***
		Duration: Time from a Completed Application Until Energy Flo
Customer #		from Project to Grid (Live Date) in Actual Days
1366		142
1367		37
1368		16
1369		26
1370		29
1371		34
1372		31
1373		26
1374		22
1375		112
1376		217
1377 1378		139 103
1379		80
1380		49
1381		51
1382		67
1383		109
1384		213
1385		139
1386		129
1387 1388		118
1389		1
1390		21
1391		28
1392		26
1393		26
1394		20
1395		23
1396		50
1397		44 47
1398 1399		58
1400		57
1401		68
1402		64
1403		77
1404		20
1405		134
1406		43
1407		69 71
1408 1409		124
1107		127
Assumptions:	, , , , , , ,	
		tion from customer. An application is considered complete when all required en received and application can be forwarded to engineering. (instructions - use
The clock will end based on the dauthorized to operate the system unland a bi-directional (dual channel) me	til the application has eter installed. (Instru	ctional (dual channel) meter is installed or re-programmed. The customer is not s been reviewed and approved by Engineering, an inspection and site-test complete actions - use column AD in spreadsheet)  I channel) meter for every distributed generation installation.
4. It should be noted some systems	will NOT have energ	is training) frieter for every distributed generation installation; by flow into the grid. These systems were designed for load sharing to reduce billab stalled in school science labs for educational purposes only.)

		Anr	2021 nual Repo	rt of						
	Ameren			b/a Amere	n Illinois					
	Ameren	illilois Cu	mpany u	D/a Amere	ii iiiiiois					
Requests for Distri	buted Gen	eration In	terconnec	tion (Net l	Metering	Customer	rs Only)*	**		
				Duration	: Time fr	om a Con	pleted A	pplication	Until Ene	rgy Flo
Customer #					from Pro	ject to Gri	d (Live D	ate) in A	ctual Day	<u>s</u>
1110							110			
1410							112			
1411 1412							103 106			
1412							83			
1413							88			
1415							85			
1416							18			
1417							18			
1418							20			
1419							19			
1420							28			
1421							28			
1422							21			
1423 1424							36 36			
1424							43			
1425							30			
1427							45			
1428							48			
1429							46			
1430							310			
1431							185			
1432							149			
1433							23			
1434							139			
1435 1436							144 48			
1437							110			
1438							92			
1439							76			
1440							43			
1441							75			
1442							77			
1443							66			
1444							64			
1445							32			
1446 1447							46 47			
1447							52			
1446							51			
1450							49			
1451							50			
1452							50			
1453							22			
									-	
Assumptions:										
The clock will start upon rec	eipt of a com	nplete annli	cation from	customer	An applica	ation is con-	sidered cor	nplete whe	n all require	ed
documentation, information, app										
Column U in spreadsheet)										
<ol><li>The clock will end based on authorized to operate the system</li></ol>										
and a bi-directional (dual channel							ny, an msp	ocuon and	. 3110-1651 C	ompiete(
3. Ameren Illinois Policy is to it	nstall a bi-dii	rectional (du	ual channel	) meter for e	every distril	outed gener				
4. It should be noted some sys									ing to reduc	e billabl
energy consumption (e.g. some 5. Time is represented in actual				school scie	ence labs f	or education	nai purpose	es only.)		
*** - This represents the total #										

		A	2021 nual Repo	ut of						
	Ameren			rı oı b/a Amere	n Illinois					
	Ameren	illilois CC	лирану и	D/a Allicic	II IIIIIOIS					
Requests for Distrib	outed Gen	eration In	terconnec	tion (Net 1	Metering	Custome	rs Only)*	**		
							mpleted A			
Customer#					<u>from Pro</u>	ject to Gr	rid (Live D	Date) in A	ctual Day	<u>s</u>
1454					l		17			
1455							20			
1456							23			
1457							26			
1458							26			
1459							36			
1460 1461							37 20			
1462							21			
1463							36			
1464							48			
1465							42			
1466							43			
1467 1468							37			
1468							41			
1470							43			
1471							42			
1472							35			
1473							44			
1474							32			
1475							161			
1476 1477							157 101			
1477							101			
1479							13			
1480							21			
1481							24			
1482							22			
1483							22			
1484							27			
1485 1486							27 79			
1487							44			
1488							55			
1489							48			
1490							48			
1491							50			
1492							44			
1493 1494							43			
1495							35			
1496							193			
1497							126			
Assumptions:										
The clock will start upon recedocumentation, information, app Column U in spreadsheet)										
The clock will end based on tauthorized to operate the system and a bi-directional (dual channes). Ameren Illinois Policy is to in	n until the a l) meter ins	pplication h talled. (Ins	nas been re tructions -	viewed and use column	approved b	y Engineer eadsheet)	ring, an insp	pection and		
It should be noted some syst energy consumption (e.g. some     Time is represented in actual     This represents the total # of	ems will NO smaller sys days, not b	OT have end stems were ousiness da	ergy flow int installed in ays.	o the grid. school scie	These syst ence labs f	ems were or education	designed fo onal purpose	or load shar es only.)		ce billable

	Annual	021 Report of
Am	eren Illinois Compa	any d/b/a Ameren Illinois
Requests for Distributed	Generation Interc	onnection (Net Metering Customers Only)***
		Duration: Time from a Completed Application Until Energy Flo
Customer#		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 1510		51 44
1510		84
1512		30
1513		34
1514		30
1515		33
1516		33
1517		70
1518		60
1519		53
1520		47
1521		47
1522		49
1523 1524		40 35
1524		29
1526		36
1527		203
1528		154
1529		84
1530		85
1531		78
1532		77
1533		79
1534		58
1535		13
1536 1537		23 23
1538		28
1539		29
1540		30
1541		30
Assumptions		
Assumptions:	a complete application	n from customer. An application is considered complete when all required
		received and application can be forwarded to engineering. (instructions - use
Column U in spreadsheet)		
		onal (dual channel) meter is installed or re-programmed. The customer is not een reviewed and approved by Engineering, an inspection and site-test completed
		een reviewed and approved by Engineering, an inspection and site-test completed ions - use column AD in spreadsheet)
		hannel) meter for every distributed generation installation.
		flow into the grid. These systems were designed for load sharing to reduce billable
energy consumption (e.g. some small 5. Time is represented in actual days		alled in school science labs for educational purposes only.)
		hat completed their installations from Feb 10, 2020 to Feb 10, 2021.

		A	2021 nual Repo	rt of						
	Ameren			rt oi b/a Amere	n Illinoic					
	Ameren	illilois Ct	лирану ч	D/a Amere	ii iiiiiois					
Requests for Distr	ibuted Gen	eration In	terconnec	tion (Net 1	Metering	Custome	rs Only)*	**		
							npleted A			
Customer#					from Pro	ject to Gr	id (Live D	ate) in A	ctual Day	<u>s</u>
1542							35			
1543							38			
1544							43			
1545							41			
1546							37			
1547							48			
1548							105			
1549							158			
1550 1551							99 95			
1552							99			
1553							18			
1554							29			
1555							40			
1556							29			
1557							67			
1558 1559							70			
1560							45			
1561							42			
1562							66			
1563							64			
1564							249			
1565							124			
1566							112			
1567 1568							103 72			
1569							61			
1570							55			
1571							55			
1572							42			
1573							42			
1574							42			
1575 1576							36 37			
1577							38			
1578							34			
1579							36			
1580							33			
1581							27			
1582							26			
1583							25			
1584 1585							19 16			
1303							10			
Assumptions:		1						1		
<ol> <li>The clock will start upon red documentation, information, ap Column U in spreadsheet)</li> </ol>										
The clock will end based on	the date who	en the bi-dir	rectional (d	ual channel)	) meter is i	nstalled or	re-program	med. The o	customer is	not
authorized to operate the syste	m until the a	pplication h	as been re	viewed and	approved b	y Engineer				
and a bi-directional (dual chann 3. Ameren Illinois Policy is to							ration insta	llation		
It should be noted some sys		•							ing to redu	ce billable
energy consumption (e.g. some	e smaller sys	stems were	installed in							
<ol><li>Time is represented in actual</li></ol>	ai days, not b			mpleted thei						

	2021 Annual Repo	
Amei	en Illinois Company d/	
D 4 6 D: 4 7 4 16	· · ·	A A A A A A A A A A A A A A A A A A A
Requests for Distributed (	seneration Interconnec	ection (Net Metering Customers Only)***
		Duration: Time from a Completed Application Until Energy Flo
Customer #		from Project to Grid (Live Date) in Actual Days
1586		126
1587		111
1588		101
1589		83
1590 1591		68 62
1592		35
1593		36
1594		21
1595		16
1596 1597		17
1598		131
1599		120
1600		21
1601		94
1602 1603		79
1604		121
1605		117
1606		36
1607		9
1608 1609		14
1610		13
1611		27
1612		21
1613 1614		26
1615		51
1616		39
1617		39
1618		39
1619 1620		20
1621		41
1622		45
1623		50
1624 1625		85 79
1625		90
1627		95
1628		95
1629		83
Assumptions:		
		m customer. An application is considered complete when all required ived and application can be forwarded to engineering. (instructions - use
	ne application has been rev	(dual channel) meter is installed or re-programmed. The customer is not reviewed and approved by Engineering, an inspection and site-test completed - use column AD in spreadsheet)
· · · · · · · · · · · · · · · · · · ·		el) meter for every distributed generation installation.
		into the grid. These systems were designed for load sharing to reduce billable in school science labs for educational purposes only.)
Time is represented in actual days, r	•	

			Λ	2021 nual Repo	rt of						
		Amoron			h oi b/a Amere	n Illinoic					
		Ameren	minois C	лирану и	D/a Amere	en minois					
Requests fo	r Distribu	ted Gene	eration In	terconnec	tion (Net )	Metering	Customer	Only)*	**		
								• /			
					Duration	: Time fr	om a Com	oleted A	pplication	Until Ene	ergy Flo
Customer#						from Pro	ect to Gric	l (Live I	Date) in A	ctual Day	<u>s</u>
1620								02			
1630 1631					83 48						
1632					48 54						
1633					54						
1634					60						
1635								48			
1636								61			
1637					65						
1638					69						
1639								71			
1640 1641								79 152			
1641								213			
1643								123			
1644								41			
1645								39			
1646								13			
1647								57			
1648								32			
1649								48			
1650 1651								39			
	1651							48			
1653								117			
1654								108			
1655					105						
1656								105			
1657								105			
1658								128			
1659								71			
1660								34 16			
1661 1662								41			
1663								104			
1664								105			
1665								67			
1666								72			
1667								71			
1668								177			
1669								108			
1670 1671								39 76			
1672								58			
1673								77			
Assumptions:		4 al a	 	notion for	auate	An a!!	 	- ا-معمله		n all com.	
The clock will start u     documentation, informa											
Column U in spreadshe	et)										
2. The clock will end b											
authorized to operate the and a bi-directional (dua								ig, an ins	pection and	site-test o	completed
Ameren Illinois Police								tion insta	Illation.		
4. It should be noted s										ing to redu	ce billable
energy consumption (e.					school scie	ence labs f	or education	al purpos	es only.)		
5. Time is represented  *** - This represents the											

	202 Annual R Ameren Illinois Compan	eport of							
	Ameren minois Compan	y doya Ameren minois							
Requests for Distr	ibuted Generation Intercon	nection (Net Metering Customers Only)***							
Customer#		Duration: Time from a Completed Application Until Energy Flow from Project to Grid (Live Date) in Actual Days							
1674		77							
1674 1675		77 93							
1676		49							
1677		52							
1678		41							
1679 1680		62							
1681		77							
1682		42							
1683		44							
1684		60							
1685		33							
1686 1687		70							
1688		114							
1689		99							
1690		30							
1691 1692		23 36							
1693		43							
1694		75							
1695		34							
1696		56							
1697		56							
1698 1699		61 47							
1700		75							
1701		153							
1702		89							
1703 1704		68							
1704		68							
1706		181							
1707		39							
1708		21							
1709		50							
1710 1711		22 78							
1712		27							
1713		69							
1714		97							
1715 1716		47 76							
1717		44							
Assumptions:									
The clock will start upon red documentation, information, ap Column U in spreadsheet)	plication fees, etc. has been re	from customer. An application is considered complete when all required ceived and application can be forwarded to engineering. (instructions - use							
authorized to operate the syste	em until the application has been all meter installed. (Instruction	al (dual channel) meter is installed or re-programmed. The customer is not n reviewed and approved by Engineering, an inspection and site-test completed is - use column AD in spreadsheet) nnel) meter for every distributed generation installation.							
4. It should be noted some sys	stems will NOT have energy floor e smaller systems were installe	w into the grid. These systems were designed for load sharing to reduce billable ad in school science labs for educational purposes only.)							

		A	2021	-4 - P						
	Ameren		nual Repo	rt oi b/a Amere	n Illinoic					
	Ameren	minois Co	трану и	D/a Amere	iii iiiiiois					
Requests for Distri	buted Gen	eration In	terconnec	tion (Net 1	Metering	Customer	s Only)*	**		
				<b>Duration</b>		om a Com				
Customer#					from Pro	ect to Gri	d (Live D	ate) in A	ctual Day	<u>s</u>
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 1731							28 27			
1731							29			
1732							24			
1734							34			
1735							24			
1736							24			
1737							19			
1738							50			
1739							124			
1740							241			
1741							224			
1742 1743							163 96			
1743							90			
1745							79			
1746							76			
1747							70			
1748							72			
1749							66			
1750							66			
1751							64			
1752							19			
1753							24			
1754 1755							54 56			
1756							24			
1757							24			
1758							23			
1759							23			
1760							29			
1761							29			
Assumptions:										
The clock will start upon rec	eipt of a con	nplete appli	cation from	customer	An applica	tion is cons	idered con	nplete whe	en all requir	ed
documentation, information, app										
Column U in spreadsheet)										
<ol><li>The clock will end based on authorized to operate the syste</li></ol>										
and a bi-directional (dual chann							ng, an msp	<del>วอ</del> บแบท สกัด	. 316-162[ (	ompieted
3. Ameren Illinois Policy is to i							ation insta	llation.		
4. It should be noted some sys									ing to redu	ce billable
energy consumption (e.g. some 5. Time is represented in actual				school scie	ence labs fo	or education	nal purpose	es only.)		
*** - This represents the total #										

			2021							
	A		nual Repo	rt of b/a Amere	Tilimaia					
	Ameren	minois Co	этрану а/	D/a Amere	ii iiiiiois					
Requests for Distri	buted Gen	eration In	terconnec	tion (Net 1	Metering	Customer	s Only)*	**		
				,	J					
						om a Com				
Customer#					from Pro	ect to Gri	d (Live D	ate) in A	ctual Day	<u>s</u>
1762							34			
1763							29			
1764							29			
1765							30			
1766							31			
1767							30			
1768							47			
1769							49			
1770 1771							49			
1772							42			
1772							47			
1774							43			
1775							38			
1776							28			
1777							23			
1778							64			
1779 1780							93 37			
1781							176			
1782							25			
1783							71			
1784							55			
1785							57			
1786							11			
1787							86			
1788							79			
1789 1790							38 51			
1791							50			
1792							16			
1793							34			
1794							35			
1795							16			
1796							91			
1797							300			
1798 1799							139 128			
1800							100			
1801							124			
1802							64			
1803							70			
1804							55			
1805						I	56			
									-	+
Assumptions:										
The clock will start upon rec documentation, information, ap										
Column U in spreadsheet)  2. The clock will end based on authorized to operate the syste										
and a bi-directional (dual chann							ng, an mst	oction and	3110-1031 (	ompieted
3. Ameren Illinois Policy is to i	nstall a bi-di	rectional (d	ual channel	) meter for e	every distrib	outed genera				
It should be noted some systematics and systematics are some systematics.  It should be noted some systematics are systematically some systematics.  It should be noted some systematics.	smaller sys	stems were	installed in						ng to redu	ce billable
<ol><li>Time is represented in actual</li></ol>	al days, not b	ousiness da	ays.							

		Am	nual Repo	rt of						
	Ameren			b/a Amere	n Illinois					
	Mikiten	imiois Co	mpany w	by a Time IC	ii iiiiiois					
Requests for I	Distributed Gen	eration In	terconnec	tion (Net	Metering	Customers	Only)*	**		
						om a Com				
Customer#					from Pro	ject to Grid	l (Live D	ate) in A	ctual Day	<u>'S</u>
1806							55			
1807							60			
1808							63			
1809				67						
1810							67			
1811							63			
1812							42			
1813 1814							42 38			
1815							22			
1816							35			
1817							37			
1818							11			
1819							15			
1820							21			
1821 1822							25 34			
1823							31			
1824							41			
1825							41			
1826							23			
1827							84			
1828							35			
1829 1830							91			
1831							28 85			
1832							55			
1833							41			
1834							110			
1835							65			
1836							68			
1837 1838							22 42			
1839							20			
1840							42			
1841							65			
1842							17			
1843							65			
1844							78			
1845 1846							23 36			
1846							137			
1848							68			
1849							39			
Assumptions:										
The clock will start upodocumentation, information										
Column U in spreadsheet)  2. The clock will end base authorized to operate the	ed on the date who									
and a bi-directional (dual of							ıy, an mək	oction and	3110-1691 (	Sompleted
3. Ameren Illinois Policy	is to install a bi-di	rectional (d	ual channel	) meter for e	every distrib	outed genera				
<ul><li>4. It should be noted som energy consumption (e.g.</li><li>5. Time is represented in</li></ul>									ing to redu	ce billabl

		A	2021	nt of						
	Amoron		nual Repo	rt oi b/a Amere	n Illinois					
	Ameren	minois Co	лирану и	D/a Amere	en minois					
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net	Metering	Customer	s Only)*:	**		
						rom a Con				
Customer#					from Pro	ject to Gri	d (Live D	ate) in A	ctual Day	<u>s</u>
1850							159			
1851							67			
1852				58						
1853				35						
1854				168						
1855				116						
1856				102						
1857 1858				90 76						
1859							78			
1860							70			
1861							51			
1862							54			
1863							43			
1864							45			
1865 1866							44 24			
1867							37			
1868							31			
1869							29			
1870							30			
1871							22			
1872							21			
1873							24			
1874 1875							14 95			
1876							25			
1877							49			
1878							82			
1879							16			
1880							51			
1881 1882							24 51			
1883							34			
1884							57			
1885							31			
1886							63			
1887							34			
1888							225			
1889 1890							32			
1891							32			
1892							30			
1893							41			
Assumptions:										
1. The clock will start upon r	eceipt of a con	nolete annli	cation from	customer	An applica	ation is con-	idered cor	nolete whe	n all require	ed
documentation, information, a										
Column U in spreadsheet)	on the det	on 4h - 1 ' ''			\ met=: * *	notoll!				nat
<ol><li>The clock will end based authorized to operate the sys</li></ol>										
and a bi-directional (dual cha							و ۵۰۰ ۱۱۱۵	and and		
3. Ameren Illinois Policy is to										1.00
<ol><li>It should be noted some senergy consumption (e.g. sor</li></ol>									ing to reduc	e billable
Time is represented in act				. 5011001 301	Iabs I	o. oddodiiOi	iai paipose	.c omy.,		
*** - This represents the total				mpleted the	ir installatio	ons from Fe	b 10. 2020	to Feb 10	2021	

		A	2021								
	Amonon		nual Repo	rt oi b/a Amere	n Illinois						
	Ameren	Illinois Co	ompany d/	D/a Amere	n Illinois						
Requests for Distr	ibuted Gen	eration In	terconnec	tion (Net 1	Metering	Customer	s Only)*	**			
requests for Dist	ibuteu Gen		Стеблисс		retering	Customer	o omy)				
				Duration	: Time fr	om a Com	pleted A	pplication	Until Ene	rgy Flow	
Customer#						ect to Gri					
1894							81				
1895							49				
1896				58							
1897				26							
1898							33				
1899 1900							189				
1900							66 28				
1901							34				
1903							294				
1904							70				
1905							19				
1906							74				
1907							34				
1908							48				
1909							97				
1910							16				
1911							29				
1912							29				
1913 1914							22 51				
	1914						98				
1916							116				
1917							148				
1918							82				
1919							62				
1920							189				
1921							31				
1922							35				
1923							108				
1924							58				
1925							74				
1926 1927							24 32				
1927							61				
1929							37				
1930							94				
1931							90				
1932							169				
1933							57				
1934							57				
1935							112				
1936							65				
1937							24				
Assumptions:											
The clock will start upon re documentation, information, ap											
Column U in spreadsheet)     The clock will end based or authorized to operate the system and a bi-directional (dual channa).	em until the a nel) meter ins	application hatalled. (Ins	as been retructions - i	viewed and use column	approved by AD in spre	y Engineeri adsheet)	ng, an insp	ection and			
Ameren Illinois Policy is to     It should be noted some sy energy consumption (e.g. som     Time is represented in actu	stems will NO e smaller sys	OT have end stems were	ergy flow int installed in	o the grid.	These syste	ems were d	esigned fo	r load shar	ng to reduc	e billable	

		Δm	2021 nual Repo	rt of						
	Ameren			h/a Amere	n Illinois					
	Ameren	illilois Co	лирану и	D/a Amere	ii iiiiiois					
Requests for	Distributed Gen	eration In	terconnec	tion (Net	Metering	Customer	s Only)*	**		
1										
				Duration	: Time fr	om a Com	pleted A	plication	Until En	ergy Flo
Customer#					from Pro	ject to Gri	d (Live D	ate) in A	ctual Day	'S
1020							220			
1938 1939							238 104			
1940							86			
1940				94						
1942							82			
1943				77 81 75 71 56						
1944										
1945										
1946										
1947										
1948							29			
1949							45			
1950							41			
1951 1952							38 37			
1953							35			
1954							35			
1955							30			
1956							21			
1957							22			
1958							38			
1959							35			
1960							27			
1961							26			
1962 1963							22 24			
1963							22			
1965							10			
1966							219			
1967							133			
1968							108			
1969							107			
1970							55			
1971							59			
1972							63			
1973							59			
1974 1975							50 42			
1975							42			
1977							38			
1978							37			
1979							41			
1980							30			
1981							70			
Assumptions:										
The clock will start up documentation, informat	on, application fees									
Column U in spreadshee 2. The clock will end ba	sed on the date wh									
authorized to operate the and a bi-directional (dual							ng, an insp	ection and	d site-test o	complete
Ameren Illinois Policy							ation insta	llation.		
4. It should be noted so	me systems will No	OT have en	ergy flow int	o the grid.	These syst	ems were de	esigned fo	r load shar	ing to redu	ce billable
energy consumption (e.g				school scie	ence labs fo	or education	al purpose	es only.)		
<ol> <li>Time is represented i</li> <li>*** - This represents the</li> </ol>										

		2021 I Report of						
Aı		oany d/b/a Ameren Illinois						
Requests for Distribute	d Generation Inter	connection (Net Metering Customers Only)***						
		Duration: Time from a Completed Application Until Energy Flov						
Customer #		from Project to Grid (Live Date) in Actual Days						
100								
1982 1983		76 73						
1984		115						
1985		14						
1986		15						
1987		52						
1988 1989		695 41						
1990		126						
1991		26						
1992		205						
1993		217						
1994 1995		197 188						
1996		166						
1997		160						
1998		82						
1999 2000		43 49						
2000		57						
2002		67						
2003		39						
2004		22						
2005 2006		33 7						
2007		129						
2008		39						
2009		42						
2010		42						
2011 2012		58 56						
2013		36						
2014		35						
2015		10						
2016 2017		168						
2017		109						
2019		85						
2020		82						
2021		177						
2022 2023		175 75						
2024		76						
2025		65						
Assumptions:								
The clock will start upon receipt of documentation, information, applicat Column U in spreadsheet)	ion fees, etc. has been	on from customer. An application is considered complete when all required in received and application can be forwarded to engineering. (instructions - use						
authorized to operate the system un	til the application has	ional (dual channel) meter is installed or re-programmed. The customer is not been reviewed and approved by Engineering, an inspection and site-test completed tions - use column AD in spreadsheet)						
		channel) meter for every distributed generation installation.						
		flow into the grid. These systems were designed for load sharing to reduce billable talled in school science labs for educational purposes only.)						
Time is represented in actual day	•							

		2021 ual Report of							
	Ameren Illinois C	mpany d/b/a Ameren Illinois							
Requests for Distr	ibuted Generation Ir	erconnection (Net Metering Customers Only)***							
Customer#		Duration: Time from a Completed Appli from Project to Grid (Live Date							
<u>Custoner n</u>		nom Project to Grad (2270 Duc	) III Tiettati Duys						
2026		60							
2027		60							
2028		60							
2030		56							
2031		56							
2032		52							
2033		38							
2034		35							
2035 2036		6 43							
2037		69							
2037		131							
2039		6							
2040		54							
2041		144							
2042		41							
2043		56							
2044 2045		76 154							
2043		124							
2047		110							
2048		111							
2049		175							
2050		111							
2051		85							
2052		112							
2053 2054		63							
2055		67							
2056		49							
2057		71							
2058		62							
2059		69							
2060		62							
2061		50							
2062 2063		48							
2064		43							
2065		42							
2066		52							
2067		(316)							
2068		21							
2069		2							
Assumptions:									
		ation from customer. An application is considered comple een received and application can be forwarded to engineer							
authorized to operate the syste	em until the application	ectional (dual channel) meter is installed or re-programmed as been reviewed and approved by Engineering, an inspect ructions - use column AD in spreadsheet)							
3. Ameren Illinois Policy is to	install a bi-directional (d	al channel) meter for every distributed generation installation							
		rgy flow into the grid. These systems were designed for loan							
energy consumption (e.g. som	e smaller systems were al days, not business d	nstalled in school science labs for educational purposes of	nny. <i>j</i>						

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	Amoron		nual Repo	rt of b/a Amere	n Illinois						
	Ameren	Illinois Co	ompany d/	D/a Amere	en Hillinois						
Requests for Dis	tributed Gen	eration In	terconnec	tion (Net )	Metering	Customer	s Only)*	**			
Requests for Di	inducu Gen		Стеонисс	lion (11ct)	, receining	Custonici	S GILY)				
				Duration	: Time fr	om a Com	pleted A	pplication	Until Ene	rgy Flow	
Customer#					from Pro	ect to Gri	d (Live D	ate) in A	ctual Days	<u>s</u>	
2050											
2070							13				
2071				18							
2072				21 29							
2074							21				
2075							33				
2076							37				
2077							29				
2078				33							
2079							29				
2080 2081							41 22				
2081							33				
2082							44				
2084							43				
2085							45				
2086							43				
2087							46				
2088							90				
2089							47 70				
2090							97				
2092							26				
2093							10				
2094							77				
2095							10				
2096							56				
2097							78				
2098							27				
2099 2100							129 87				
2100							59				
2102							59				
2103							59				
2104							71				
2105							45				
2106							46				
2107							46				
2108							46				
2109 2110							46 39				
2110							43				
2112							43				
2113							43				
Accumptions											
Assumptions:  1. The clock will start upon	receipt of a con	nnlete annii	cation from	customor	An applica	tion is con	idered cor	nnlete who	n all roquir	ad	
documentation, information,											
Column U in spreadsheet)											
The clock will end based authorized to operate the sy-											
authorized to operate the sy- and a bi-directional (dual cha							ng, an insp	bechon and	i sile-lest C	ompleted	
3. Ameren Illinois Policy is	o install a bi-di	rectional (d	ual channel	) meter for e	every distrib	outed gener					
4. It should be noted some									ing to reduc	e billable	
energy consumption (e.g. so 5. Time is represented in ac				SCHOOL SCIE	ence labs to	or education	iai purpose	es only.)			
*** - This represents the total					ir inatallatia	from Fo	- 40 0000	4- F-b 40	0004		

Ame	2021 Annual Report of ren 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
2114	21
2114 2115	31 31
2116	105
2117	35
2118	33
2119	75
2120 2121	67
2121	150
2123	22
2124	26
2125	34
2126	36
2127	13 197
2128 2129	47
2130	11
2131	73
2132	15
2133	34
2134	35
2135 2136	26
2137	71
2138	33
2139	56
2140	25
2141	73
2142 2143	50
2143	16
2145	129
2146	43
2147	143
2148	34
2149 2150	113 80
2150	87
2152	16
2153	66
2154	65
2155	29
2156 2157	29 29
2137	29
documentation, information, application Column U in spreadsheet)	complete application from customer. An application is considered complete when all required fees, etc. has been received and application can be forwarded to engineering. (instructions - use
authorized to operate the system until the and a bi-directional (dual channel) meters.  3. Ameren Illinois Policy is to install a	when the bi-directional (dual channel) meter is installed or re-programmed. The customer is not he application has been reviewed and approved by Engineering, an inspection and site-test completed r installed. (Instructions - use column AD in spreadsheet) bi-directional (dual channel) meter for every distributed generation installation. Il NOT have energy flow into the grid. These systems were designed for load sharing to reduce billable
energy consumption (e.g. some smalle 5. Time is represented in actual days,	systems were installed in school science labs for educational purposes only.)

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	Ameren		nual Repo	rt oi b/a Amere	n Illinoic					
	Ameren	Illinois Co	лирану и/	D/a Amere	ii iiiiiois					
Requests for Distr	ibuted Gen	eration In	terconnec	tion (Net ]	Metering	Custome	rs Only)*:	**		
1										
				Duration	: Time fr	om a Con	pleted A	pplication	Until Ene	rgy Flov
Customer#					from Pro	ject to Gr	id (Live D	ate) in A	ctual Days	<u>s</u>
2158							29			
2159							29			
2160							29			
2161							29			
2162							29			
2163							29			
2164 2165							29 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 2191							160 160			
2191							160			
2193							160			
2193							160			
2195							160			
2196							160			
2197							160			
2198							160			
2199							160			
2200							160			
2201							160			
A										
Assumptions:		1-4- "			A "	4::	-:			
<ol> <li>The clock will start upon red documentation, information, ap</li> </ol>										
Column U in spreadsheet)	Puroditori 1003	., o.o. 1100 l	JOHN TOUCH	оч чин аррі	.oution call	. Jo ioi waiu	Sa to ongli	.comig. (II	.5.1 40110115	uso
2. The clock will end based or										
authorized to operate the syste							ing, an insp	ection and	l site-test c	ompleted
and a bi-directional (dual channal)  3. Ameren Illinois Policy is to							ration ineta	llation		
Afficient fillinois Policy is to     It should be noted some sy									ina to reduc	e billable
energy consumption (e.g. som									J	
		ousiness da								

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	Ameren			b/a Amere	n Illinois					
	7 mileten	innois Co	mpany w	by a Milere	ii iiiiiois					
Requests for Dist	ributed Gen	eration In	terconnec	tion (Net	Metering	Customers	Only)**	**		
							• ,			
				Duration	: Time fr	om a Comp	leted Ar	plication	Until En	ergy Flo
Customer#					from Pro	ject to Grid	(Live D	ate) in A	ctual Day	'S
2202							160			
2203							160			
2204							160			
2205							160			
2206 2207							160 160			
2207							160			
2209							160			
2210							160			
2210							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 2227							160 160			
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 2244							160 160			
2245							160			
22-73							100			
Assumptions:										
The clock will start upon redocumentation, information, a Column U in spreadsheet)										
The clock will end based of the clock will be clock will be clock will be clock will be clock with the clock with the clock will be clock with the clock with the clock will be clock with the clock with the clock will be clock with the clock will be clock with the clock	on the date whe	en the bi-di	rectional (di	ual channel	) meter is i	nstalled or re-	program	med. The o	customer is	not
authorized to operate the sys	tem until the a	pplication h	nas been re	viewed and	approved b	y Engineering				
and a bi-directional (dual char										
Ameren Illinois Policy is to     It should be noted some a				•	-				ing to cod	00 hill-l-!
<ol><li>It should be noted some s</li></ol>									ing to redu	ce billable
energy consumption (e.g. sor	ne smaller svs	stems were	installed in	school scie	ence lahs f	or educationa	purpose	es only 1		

		A	2021	-4 of						
	Ameren		nual Repo	h oi b/a Amere	n Illinoic					
	Ameren	niniois Co	лирану и/	D/a Amere	in miniois					
Requests for Dist	ributed Gen	eration In	terconnec	tion (Net 1	Metering	Customer	rs Only)*	**		
1					8					
				Duration	: Time fr	om a Con	pleted A	pplication	Until Ene	ergy Flov
Customer#					from Pro	ect to Gri	d (Live D	ate) in A	ctual Day	<u>s</u>
22.15							1.50			
2246							160			
2247 2248							160 160			
2249							160			
2250							160			
2251							160			
2252							160			
2253							160			
2254							160			
2255							160			
2256							160			
2257							160			
2258							160			
2259 2260							160 160			
2261							160			
2262							160			
2263							160			
2264							160			
2265							160			
2266							160			
2267							160			
2268							160			
2269							160			
2270 2271							160 160			
2272							160			
2273							160			
2274							160			
2275							160			
2276							160			
2277							155			
2278							73			
2279 2280							124 131			
2281							41			
2282							23			
2283							95			
2284							41			
2285							34			
2286							101			
2287							92			
2288							120			
2289							181	1	1	
Assumptions:										
The clock will start upon redocumentation, information, a										
Column U in spreadsheet)  2. The clock will end based o	n the date wh	en the bi-di	rectional (d	ual channel	) meter is i	nstalled or i	re-programi	med. The c	ustomer is	not
authorized to operate the syst	em until the a	pplication h	nas been re	viewed and	approved b	y Engineeri				
and a bi-directional (dual chan							otion inst-	llation		
Ameren Illinois Policy is to     It should be noted some sy				•	-				ina to redu	ce billable
energy consumption (e.g. som	ne smaller sys	stems were	installed in						J	
5. Time is represented in actu				mnleted the	ir installatio	ns from Fe	h 10 2020	to Feb 10	2021	

	A	2021 nnual Report of				
	Ameren Illinois	Company d/b/a Amere	n Illinois			
Requests for Distr	ibuted Generation	Interconnection (Net )	Metering Customers C	)nlv)***		
Trequests for Basic		(100)		, <u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		
Customer#			: Time from a Comple from Project to Grid (I			
<u>Customer n</u>			Irom Project to GRG (I	ave bue, mi	ettai Day	<u>3</u>
2290				227		
2291				83		
2292				86		
2293 2294				59 24		
2295				196		
2296				51		
2297				52		
2298				80		
2299				37		
2300				68		
2301				68		
2302				68 68		
2303				68		
2305				68		
2306				68		
2307				68		
2308				68		
2309				68		
2310				68		
2311				68		
2312				68		
2313				68 68		
2314				68		
2316				68		
2317				68		
2318				68		
2319				68		
2320				68		
2321				68		
2322				68		
2323 2324				68 68		
2325				68		
2326				68		
2327				68		
2328				68		
2329				68		
2330				68		
2331				68		
2332				68		
2333				68		
Assumptions:						
Assumptions:  1. The clock will start upon red documentation, information, ap Column U in spreadsheet)						
The clock will end based on authorized to operate the syste and a bi-directional (dual channel).  Amorea Illinois Reliev is to	em until the application nel) meter installed. (I	n has been reviewed and nstructions - use column	approved by Engineering, AD in spreadsheet)	an inspection and		
Ameren Illinois Policy is to     t. It should be noted some systemacy consumption (e.g. some	stems will NOT have e	energy flow into the grid.	These systems were design	gned for load shar	ing to reduc	ce billabl

		<b>A</b> :	2021							
	Amaran		nual Repo	rt oi b/a Amere	n Illinois					
	Ameren	minois Co	трану и	D/a Amere	iii iiiiiois					
Requests for Distr	ributed Gen	eration In	terconnec	tion (Net	Metering	Customer	s Only)*	**		
						om a Com				
Customer#					from Proj	ect to Gri	d (Live I	Date) in Ac	tual Days	<u>.</u>
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 2347							68 68			
2347							68			
2349							68			
2350							68			
2351							68			
2352							68			
2353							68			
2354							68			
2355							68			
2356							68			
2357							68			
2358							68			
2359							68			
2360 2361							68 68			
2362							68			
2363							68			
2364							68			
2365							68			
2366							68			
2367							68			
2368							68			
2369							68			
2370							68			
2371							68			
2372 2373							68 68			
2374							68			
2375							68			
2376							68			
2377							68			
 A commette no										
Assumptions:	point of a -:	nlots s=="	ootion f	ounter:	An ans!!-	tion in	idoros -	mnlete :: t-	n all race:	<u> </u>
<ol> <li>The clock will start upon re documentation, information, ap</li> </ol>										
Column U in spreadsheet)										
2. The clock will end based or										
authorized to operate the system and a bi-directional (dual change)							ng, an ins	pection and	site-test co	ompleted
Ameren Illinois Policy is to							ation insta	Illation.		
4. It should be noted some sy	stems will NO	OT have ene	ergy flow int	to the grid.	These syste	ems were d	esigned fo	r load shari	ng to reduc	e billable
energy consumption (e.g. som	e smaller sys	tems were	inetalled in	echanl ecid	anno labo fo	or advantion	ol nurnoo	oo only \		
Time is represented in actu				3011001 3010	ence labs it	JI EUUCANOI	iai puipos	es only.)		

		2021 Annual Report of					
	Ameren Illino	ois Company d/b/a Ame	ren Illinois				
Remests for Distrib	uted Generati	ion Interconnection (Ne	t Metering Custo	mers Only)**	*		
Requests for Distrib	dica Generali	ion merconicetion (140)	i wretering easter	incis Omy)			
Customer#		Duratio	n: Time from a C from Project to				gy Flow
2378				68			
2379 2380				68 68			
2381				68			
2382				68			
2383				68			
2384				68			
2385 2386				68 68			
2387				68			
2388				68			
2389				68			
2390				68			
2391				68			
2392 2393				68 68			
2394				68			
2395				68			
2396				68			
2397				68			
2398				68			
2399 2400				68 68			
2400				68			
2402				68			
2403				68			
2404				68			
2405				68			
2406 2407				68 68			
2407				68			
2409				68			
2410				68			
2411				68			
2412				68			
2413 2414				68 68			
2415				68			
2416				68			
2417				68			
2418				68			
2419 2420				68			
2420				68			
2121							
Assumptions:							
The clock will start upon receit documentation, information, applic Column U in spreadsheet)							
The clock will end based on the authorized to operate the system and a bi-directional (dual channel     Ameren Illinois Policy is to instance.)	until the application until the application (	ation has been reviewed and d. (Instructions - use colum	d approved by Engin in AD in spreadshee	neering, an inspe	ection and s		
Afficient lilinois Policy is to lis     It should be noted some systemacy consumption (e.g. some some is represented in actual)     Time is represented in actual	ems will NOT ha smaller systems	ave energy flow into the grid s were installed in school so	. These systems we	ere designed for	load sharing	g to reduce	billable

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		Report of
A	meren Illinois Compa	ny d/b/a Ameren Illinois
Requests for Distribute	d Generation Interco	onnection (Net Metering Customers Only)***
Requests for Distribute		miceton (recently customers only)
		Duration: Time from a Completed Application Until Energy Flo
Customer#		from Project to Grid (Live Date) in Actual Days
2422		68
2423		68
2424		68
2425		68
2426		68
2427		68
2428 2429		68 68
2430		68
2431		68
2431		06
Assumptions:		
		n from customer. An application is considered complete when all required received and application can be forwarded to engineering. (instructions - use
	date when the bi-direction	nal (dual channel) meter is installed or re-programmed. The customer is not
authorized to operate the system un	til the application has be	een reviewed and approved by Engineering, an inspection and site-test completed
		ons - use column AD in spreadsheet)
		annel) meter for every distributed generation installation. ow into the grid. These systems were designed for load sharing to reduce billabl
		ow into the grid. These systems were designed for load sharing to reduce billabil lled in school science labs for educational purposes only.)

## **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	1,456
Advanced Meter Install	
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 installlation 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	\$44,65 <u>4</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	<u>21,025</u>	#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.

**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

<sup>\*\*</sup>Customers who required 2 Meter exchanges

**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 Ilinois 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

# <sup>2</sup>Appendix 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:

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

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

#### 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:

∆ in Program Participant Load in t

- $= [(Average\ Customer\ Load\ in\ t)*(AMI\ Enabled\ Program\ Participants\ in\ t)]$
- [*Program Participant Load in t*]

<sup>&</sup>lt;sup>2</sup> The 2018 Greenhous 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:

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

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	CO₂ Variance from Average Customer
Peak Time Rewards	0 metric tons of CO <sub>2</sub> <sup>1</sup>
Residential Real Time Pricing and Home Area Network	(10,066) metric tons of CO <sub>2</sub>
Commercial and Industrial Real Time Pricing <sup>2</sup>	185,444 metric tons of CO <sub>2</sub>
Total Reduction in GHG	175,378 metric tons of CO <sub>2</sub>

<sup>1</sup>Neither the MidContinent Independent System Operator (MISO) nor Ameren Illinois called a Peak Time Rewards event in 2017 <sup>2</sup>For 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.