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ERM #22-141

CHIEF CLERK'S OFFICE

ILLINOIS COMMERCE COMMISSION

VIA E-TARIFF DELIVERY

September 9, 2022

Ms. Elizabeth Rolando
Chief Clerk
Illinois Commerce Commission
527 E. Capitol Avenue
Springfield, IL 62701

Subject: Compliance Filing in Docket No. 21-0850, Rider DG REBATE – Renewable Energy Distributed Generation Rebate (Rider DG REBATE)

Dear Ms. Rolando:

Commonwealth Edison Company (ComEd) submits to the Illinois Commerce Commission (ICC) on September 9, 2022 the following tariff and informational sheets for filing pursuant to the ICC's Order dated August 11, 2022 in Docket No. 21-0850. These tariff and informational sheets are being submitted in compliance with the aforementioned Order and are to become effective December 15, 2022.

COMMONWEALTH EDISON COMPANY
ELECTRICITY
ILL. C. C. No. 10

Rider DG REBATE:

8th Revised Sheet No. 126
3rd Revised Sheet No. 215
7th Revised Sheet No. 245
5th Revised Sheet No. 246
10th Revised Sheet No. 247
7th Revised Sheet No. 248
5th Revised Sheet No. 248.1
4th Revised Sheet No. 248.2
1st Revised Sheet No. 248.3
1st Revised Sheet No. 248.4
Original Sheet No. 248.5

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7th Revised Sheet No. 126
2nd Revised Sheet No. 215
6th Revised Sheet No. 245
4th Revised Sheet No. 246
9th Revised Sheet No. 247
6th Revised Sheet No. 248
4th Revised Sheet No. 248.1
3rd Revised Sheet No. 248.2
Original Sheet No. 248.3
Original Sheet No. 248.4

DISTRIBUTED GENERATION REBATE AMOUNT:

1st Revised Informational Sheet No. 48 canceling Original Informational Sheet No. 48

Ms. Rolando
Rider DG REBATE

-2-

September 9, 2022

DG REBATE REQUIRED SMART INVERTER SETTINGS:

1st Revised Informational Sheet No. 49	canceling	Original Informational Sheet No. 49
1st Revised Informational Sheet No. 50	canceling	Original Informational Sheet No. 50
1st Revised Informational Sheet No. 51	canceling	Original Informational Sheet No. 51
1st Revised Informational Sheet No. 52	canceling	Original Informational Sheet No. 52
1st Revised Informational Sheet No. 53	canceling	Original Informational Sheet No. 53
1st Revised Informational Sheet No. 54	canceling	Original Informational Sheet No. 54
1st Revised Informational Sheet No. 55	canceling	Original Informational Sheet No. 55

Electronic copies of this transmittal letter and tariff sheet are being provided to Mr. Richard Bridal II (Director: Financial Analysis Department) at Richard.Bridal@illinois.gov, Mr. Sam McClerren (Tariff Analyst: Rates Department – Financial Analysis Division) at Sam.McClerren@illinois.gov, Ms. Rochelle Phipps (Assistant Director - Financial Analysis Division) at Rochelle.Phipps@illinois.gov, and to Dr. James Zolnierrek (Bureau Chief) at James.Zolnierrek@illinois.gov, all of the Bureau of Public Utilities of the ICC Staff.

Sincerely,



Martin G. Fruehe
Senior Manager Retail Rates
630-437-2063

cc: Dr. James Zolnierrek
Mr. Richard Bridal II
Ms. Rochelle Phipps
Mr. Sam McClerren

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ILLINOIS COMMERCE COMMISSION

GENERAL TERMS AND CONDITIONS

(Continued from Sheet No. 125)

ORGANIZATION OF GENERAL TERMS AND CONDITIONS (CONTINUED)

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APPLICABILITY

- * These General Terms and Conditions are applicable to the tariffs included in the Company's Schedule of Rates, to electric service provided by the Company, to retail customers located in the Company's service territory, to applicants for electric service provided by the Company, to developers of retail customer premises located in the Company's service territory, to owners and operators of distributed generation that is interconnected to electric distribution facilities owned by the Company, to Retail Electric Suppliers (RESS), and to Metering Service Providers (MSPs), as appropriate.

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ILLINOIS COMMERCE COMMISSION

(Continued on Sheet No. 127)

Filed with the Illinois Commerce Commission on
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Illinois Commerce Commission Order dated
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Asterisk (*) indicates change.

Date Effective: December 15, 2022
Issued by T. R. Donnelly, President and COO
Post Office Box 805379
Chicago, Illinois 60680-5379

GENERAL TERMS AND CONDITIONS

(Continued from Sheet No. 214)

MISCELLANEOUS GENERAL PROVISIONS

No agent has the authority to amend, modify, waive or alter any provision or terms under which the Company provides electric service. Nor does any such agent have the authority to bind the Company by making any promises or representations.

A retail customer with electric generating facilities must indemnify the Company and the Company's other retail customers against any liability for personal injury or property damage arising from or created by the interconnection or operation of such retail customer's electric generating facilities. Such retail customer must also indemnify the Company against any and all loss resulting from electric power and energy demands established by such retail customer in excess of the capacity of the Company's distribution facilities furnished in accordance with the provisions of the contract under which the Company provides electric service to such retail customer.

- * An owner or operator of distributed generation that is interconnected to electric distribution facilities owned by the Company must indemnify the Company and the Company's retail customers against any liability for personal injury or property damage arising from or created by the interconnection or operation of such electric generating facilities. Additionally, any such owner or operator of distributed generation which applies for a rebate related to such distributed generation facilities, is subject to the prerequisites of service related to such rebate.

In the event the Company cannot provide electric power and energy to retail customers due to an event in which the combined requirements of all transmission services commitments exceed the available transfer capability of the transmission system, transmission services will be curtailed in accordance with applicable curtailment procedures.

The information and requirements contained in the Company's Schedule of Rates set forth the general conditions under which the Company provides electric service. In the event a condition arises which is not specifically covered in the Company's Schedule of Rates, it is the retail customer's, applicant's, RES's, or MSP's responsibility, as applicable, to obtain information from the Company in order to determine applicable requirements.

Information relative to subject matters addressed in the Company's Schedule of Rates may be obtained from the Company by telephone, by mail, or in person at the Company's business offices.

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*

**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

Applicable to Rate BES, Rate BESH, Rate RDS and General Terms and Conditions

AVAILABILITY.

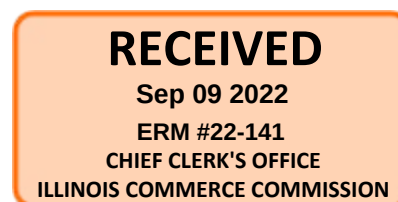
This rider is available to any owner or operator of a distributed electric renewable generating facility meeting the Prerequisites of Service. Such owner or operator may be, but is not limited to, a retail customer or a community renewable generation project.

Service hereunder is not restricted to retail customers that obtain electric power and energy supply from the Company.

Notwithstanding the above, this rider, as it relates to a Resource 2B Rebate, as described in the Determination of Distributed Electric Renewable Generating Facility Rebate Amount section of this tariff, is only available to owners or operators of Distributed Electric Retail Generating Facilities that service retail customers that obtain electric power and energy supply from the Company under Rate BESH.

PURPOSE.

The purpose of this rider is to effectuate applicable provisions of Section 16-107.6 of the Public Utilities Act (Act), including the determination of the amount of a rebate available to, and the conditions under which such rebate is provided to, certain owners or operators of distributed electric renewable generating facilities.



(Continued on Sheet No. 246)

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*

**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 245)

DEFINITIONS.

Generally, definitions of terms used in this rider are provided in the Definitions part of the General Terms and Conditions of the Company's Schedule of Rates. The following terms are defined for use in this rider:

CS Project

CS Project means a community renewable generation project as defined in Section 1-10 of the IPA Act.

Distributed Electric Renewable Generating Facility

Distributed electric renewable generating facility means an electric generator with a nameplate or rated capacity that does not exceed 5,000 kilowatts (kW) that is interconnected, after August 11, 2022, to the Company's distribution system under rules adopted by the Illinois Commerce Commission (ICC), are primarily intended to offset a retail customer's current or future electric power and energy requirements and is powered by solar energy, wind, dedicated crops grown for electricity generation, agricultural residues, untreated and unadulterated wood waste, livestock manure, anaerobic digestion of livestock or food processing waste, fuel cells or microturbines powered by renewable fuels, or hydroelectric energy, provided such hydroelectric energy does not involve construction or significant expansion of hydropower dams.

Energy Storage Facility

Energy storage facility means commercially available technology that is capable of absorbing energy and storing it for a period of time for use at a later time, including, but not limited to, electrochemical, thermal, and electromechanical technologies, which may be interconnected behind the customer's meter or interconnected behind its own meter, is fixed in place, and is associated with a Distributed Electric Renewable Generating Facility.

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(Continued on Sheet No. 247)

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**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 246)

DEFINITIONS (CONTINUED).

Rebate Category

Rebate Category means the category applied for purposes of determining the applicable rebate amount. A base rebate for the provision of System-wide Grid Services provided by a Distributed Electric Renewable Generating Facility shall be categorized as a Resource 1 Rebate. A rebate related to the operation of an Energy Storage Facility shall be categorized as a Resource 2 Rebate. Resource 1 Rebate and Resource 2 Rebate categories will be further categorized as 1A and 1B, and 2A and 2B, as applicable, according to the Determination of Distributed Electric Renewable Generating Facility Rebate Amount section of this tariff.

Smart Inverter

Smart Inverter means a device that converts direct current (DC) into alternating current (AC) and meets the IEEE 1547-2018 equipment standards. Until devices that meet the IEEE 1547-2018 standard are available, devices that meet the UL 1741 (SA) standard are acceptable.

System-wide Grid Services

System-wide grid services means the benefits that a distributed energy resource provides to the distribution grid for a period of no less than 25 years. System-wide grid services do not vary by location, time, or the performance characteristics of the distributed energy resource. System-wide grid services include, but are not limited to, avoided or deferred distribution capacity costs, resilience and reliability benefits, avoided or deferred distribution operation and maintenance costs, distribution voltage and power quality benefits, and line loss reductions.

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(Continued on Sheet No. 248)

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**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 247)

PREREQUISITES OF SERVICE.

Consistent with the provisions of 220 ILCS 5/16-107.6 and other applicable provisions of the Act, and applicable provisions of the IPA Act, the following prerequisites of service must be satisfied with respect to a Distributed Electric Renewable Generating Facility for which a rebate is being sought before service hereunder is provided:

1. for any such Distributed Electric Renewable Generating Facility interconnected to the Company's distribution system, such facility must be interconnected to the Company's distribution system by means of a Smart Inverter, and must utilize the Smart Inverter functionality to conform to the requirements in the Required Smart Inverter Settings section of this tariff, as applicable;
2. the portion of a Distributed Electric Renewable Generating Facility's capacity for which a Resource 1 Rebate is being sought cannot have been the subject of (a) a rebate previously provided hereunder or in accordance with applicable provisions of Section 16-107.6 of the Act, or (b) a pending or approved application for a rebate hereunder;
3. the portion of an Energy Storage Facility's capacity for which a Resource 2 Rebate is being sought cannot have been the subject of (a) a rebate previously provided hereunder or in accordance with applicable provisions of Section 16-107.6 of the Act, or (b) a pending or approved application for a rebate hereunder;
4. a recipient of a rebate must warrant that such recipient has the right to utilize the functionality of any Smart Inverter(s) and to conform to the requirements in the Required Smart Inverter Settings section of this tariff, as applicable;
5. indemnify the Company and the Company's retail customers against any liability for personal injury or property damage arising from or created by the interconnection or operation of such distributed electric renewable generating facility;
6. indemnify the Company and the Company's retail customers against any liability for inaccuracies of a recipient of a rebate's warrant that such recipient has the right to utilize the Smart Inverter functionality and conform to the requirements in Required Smart Inverter Settings section of this tariff, as applicable;
7. Owners or operators of Distributed Electric Renewable Generating Facilities, or CS Projects, as applicable, must submit an application for a rebate, as applicable;

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(Continued on Sheet No. 248.1)

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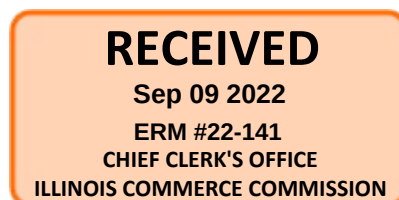
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**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 248)

PREREQUISITES OF SERVICE (CONTINUED).

8. indemnify the Company and the Company's retail customers against any liability for inaccuracies of a recipient of a rebate's warrant that such recipient has the right to commit the retail customer serviced by any Distributed Electric Renewable Generating Facility for which such rebate is received, to provide any System-wide Grid Services associated with such distributed generation;
9. a recipient of a Resource 2A Rebate must warrant that any Distributed Electric Renewable Generating Facility that is associated with an Energy Storage Facility for which such rebate is received, shall participate in one or more programs determined through the Multi-Year Integrated Grid Planning process in accordance with applicable provisions of Section 16-107.6 of the Act, that are designed to meet peak reduction and flexibility;
10. indemnify the Company and the Company's retail customers against any liability for inaccuracies of a recipient of a Resource 2A Rebate's warrant that such recipient has the right to commit the Distributed Electric Renewable Generating Facility that is associated with an Energy Storage Facility for which such rebate is received, to participate in the Multi-Year Grid Planning Process;
11. the retail customer serviced by any Distributed Electric Renewable Generating Facility that is associated with an Energy Storage Facility for which a Resource 2B Rebate is received must take supply under Rate BESH – Basic Electric Service Hourly Pricing (Rate BESH) and remain on Rate BESH for the life of the Energy Storage Facility;
12. a recipient of a Resource 2B Rebate must warrant that any Distributed Electric Renewable Generating Facility that is associated with an Energy Storage Facility for which such rebate is received, shall receive supply service under Rate BESH for the life of the Energy Storage Facility;
13. indemnify the Company and the Company's retail customers against any liability for inaccuracies of a recipient of a Resource 2B Rebate's warrant that such recipient has the right to commit the retail customer associated with the Distributed Electric Renewable Generating Facility that is associated with an Energy Storage Facility for which such rebate is received, to receive supply service under Rate BESH for the life of the Energy Storage Facility; and
14. a recipient of a Resource 2B Rebate must warrant that the Distributed Electric Renewable Generating Facility that is associated with an Energy Storage Facility for which such rebate is received, is interconnected to the Company's distribution system via the same Smart Inverter as such Energy Storage Facility.



(Continued on Sheet No. 248.2)

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**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 248.1)

DETERMINATION OF DISTRIBUTED ELECTRIC RENEWABLE GENERATING FACILITY REBATE AMOUNT.

For Distributed Electric Renewable Generating Facilities interconnected on or after the effective date of this tariff, and until such time as the amount of rebates is determined pursuant to Section 16-107.6(e) of the Act, the rebate amount for owners or operators of Distributed Electric Renewable Generating Facilities eligible for a DG Rebate under this rider is the amount of DG Rebate prescribed in Informational Sheet No. 48, as applicable, based upon the Rebate Category and calculated, as applicable, per kilowatt (kW) of nameplate generating capacity measured as nominal DC power output in kW of such Distributed Electric Renewable Generating Facility, and per kilowatt-hour (kWh) of nameplate capacity for each Energy Storage Facility. For a Distributed Electric Renewable Generating Facility with fractional nameplate generating capacities measured as nominal DC power output in kW, rebate amounts will be rounded to the cent. For an energy Storage Facility with fractional nameplate capacities measured in kWh, rebate amounts will be rounded to the cent.

Resource 1 Rebates

Resource 1A Rebate: A Resource 1 Rebate applicable to the owner or operator of a Distributed Electric Renewable Generating Facility that is ineligible for net metering under subsection (d), (d-5), or (e) of Section 16-107.5 shall be categorized as a Resource 1A Rebate. A Resource 1 Rebate applicable to a CS Project shall also be categorized as a Resource 1A Rebate.

Resource 1B Rebate: A Resource 1 Rebate applicable to the owner or operator of a Distributed Electric Renewable Generating Facility that would qualify a retail customer for net metering under subsection (d), (d-5), or (e) of Section 16-107.5 shall be categorized as a Resource 1B Rebate.

Resource 2 Rebates

Resource 2A Rebate: A Resource 2 Rebate applicable to the owner or operator of a Distributed Electric Renewable Generating Facility, with an associated Energy Storage Facility, that is ineligible for net metering under subsection (d), (d-5), or (e) of Section 16-107.5 shall be categorized as a Resource 2A Rebate. A Resource 2 Rebate applicable to a CS Project shall also be categorized as a Resource 2A Rebate.

Resource 2B Rebate: A Resource 2 Rebate applicable to the owner or operator of a Distributed Electric Renewable Generating Facility with an associated Energy Storage Facility that would qualify a retail customer for net metering under subsection (d), (d-5), or (e) of Section 16-107.5 shall be categorized as a Resource 2B Rebate.

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(Continued on Sheet No. 248.3)

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**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 248.2)

DETERMINATION OF DISTRIBUTED ELECTRIC RENEWABLE GENERATING FACILITY REBATE AMOUNT (CONTINUED).

The total rebate provided for any Distributed Electric Renewable Generating Facility must not exceed the total of (a) the amount of the Resource 1 Rebate prescribed in Informational Sheet No. 48, as applicable, multiplied by (b) the nameplate generating capacity of the Distributed Electric Renewable Generating Facility, measured as nominal DC power output in kW, associated with such facility, plus (c) the amount of the Resource 2 Rebate prescribed in Informational Sheet No. 48, as applicable, multiplied by (d) the nameplate capacity of the Energy Storage Facility, measured in kWh.

REBATE TERMS AND CONDITIONS.

Owners or operators of Distributed Electric Renewable Generating Facilities may apply to receive a rebate for such facilities interconnecting to the Company's distribution system and receiving permission to operate on or after the effective date of this tariff. Smart Inverter(s) must utilize the Smart Inverter functionality and conform to the requirements in the Required Smart Inverter Settings section of this tariff, for the life of the Distributed Electric Renewable Generating Facility for which such rebate is sought, as applicable.

The owner of a Distributed Electric Renewable Generating Facility or CS Project may apply for a rebate at the time of execution of an interconnection agreement with the Company and, provided such project is interconnected and receives permission to operate within 24 months of such application, shall receive the value available at that time of execution of the interconnection agreement. Upon interconnection and permission to operate, applications will be processed by the Company per the terms in the Ongoing Company Obligations section of this tariff. Applications received at the time of execution of an interconnection agreement will expire after 24 months if such associated project is not interconnected and granted permission to operate within that time.

Notwithstanding the above, no such applications will be processed until December 15, 2022.

For any Distributed Electric Renewable Generating Facility that completes interconnection, receives permission to operate and applies for a rebate under this rider, the Smart Inverter(s) associated with such Distributed Electric Renewable Generating Facility must provide autonomous response to grid conditions through its default settings as approved by the Commission. Default settings may not be changed after the execution of the interconnection agreement except by mutual agreement between the Company and the owner or operator of the distributed generation and must conform to the settings requirements in the DG Rebate Required Smart Inverter Settings Informational Sheets, as applicable.



(Continued on Sheet No. 248.4)

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**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 248.3)

RETAIL CUSTOMER CONTINUING OBLIGATIONS.

For any Distributed Electric Renewable Generating Facility interconnected to the Company's distribution system for which a rebate has been provided, the retail customer associated with such Distributed Electric Renewable Generating Facility must continue to abide by the provisions of the Prerequisites of Service section of this rider.

The written consent of the Company is required prior to implementing any other setting requirements and functions not required pursuant to the DG Rebate Required Smart Inverter Settings Informational Sheets, or the interconnection agreement, as applicable.

Devices that meet UL 1741(SA) standards are only acceptable until Smart Inverter(s) meeting the IEEE 1547-2018 standards are commercially available. Upon commercial availability of Smart Inverter(s) meeting the IEEE 1547-2018 standards, all devices must be updated to meet the standards, and to conform to the settings requirements provided in the DG Rebate Required Smart Inverter Settings Informational Sheets.

A retail customer who is serviced under Rider POGNM – Parallel Operation of Retail Customer Generating Facilities with Net Metering (Rider POGNM), by a Distributed Electric Renewable Generating Facility, for which a Resource 1 Rebate has been issued, shall only be eligible for net metering service under the provision of subsection (n) of Section 16-107.5, as of the date of issuance of such rebate.

Retail customers who are serviced by a Distributed Electric Renewable Generating Facility, for which a Resource 2B Rebate has been issued, must take service under Rate BESH for the life of the Energy Storage Facility.

COMPANY CONTINUING OBLIGATION.

The Company must remit the applicable rebate amount within sixty (60) days after (a) a complete application for which the Company is able to calculate the rebate amount is received; (b) all information requested by the Company is received; (c) the Distributed Electric Renewable Generating Facility is operating in parallel with the Company's distribution system; and, (d) notification has been provided, by the Company, to the retail customer serviced by the Distributed Electric Renewable Generating Facility for which a rebate has been requested, that such retail customer will only be eligible for net metering service under the provision of subsection (n) of Section 16-107.5, as of the date of issuance of such rebate.

Notwithstanding the above, no such applications will be processed until December 15, 2022.



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(Continued on Sheet No. 248.5)

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**RIDER DG REBATE
RENEWABLE ENERGY DISTRIBUTED GENERATION REBATE**

(Continued from Sheet No. 248.4)

MISCELLANEOUS GENERAL PROVISIONS.

A Distributed Electric Renewable Generating Facility may be disconnected by the Company from the Company's distribution system whenever, in the sole opinion of the Company, such action is required by an emergency, for reasons of safety, or due to interference with electric service to other retail customers.

By virtue of being connected to the grid via a smart inverter that adheres to the Required Smart Inverter Settings section of this Rider and all other applicable requirements, terms, and conditions of this Rider, a Resource 1 Rebate recipient will have demonstrated that they are providing any System-wide Grid Services associated with such distributed generation.

The Company's Schedule of Rates, of which this rider is a part, includes General Terms and Conditions and other tariffs. Service hereunder is subject to the General Terms and Conditions and such other tariffs, as applicable.

All performance requirements set forth in the Required Smart Inverter Settings section of this tariff shall be at the point of interconnection as defined in Section 466.30 of the Illinois Administrative Code.

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DISTRIBUTED GENERATION REBATE AMOUNT

Supplement to Rider DG REBATE (1)

Rebate Category	Distributed Electric Renewable Generating Facility Rebate Amount (4)
Resource 1A Rebate (2)	\$250/kW
Resource 1B Rebate (2)	\$300/kW
Resource 2A Rebate (3)	\$250/kWh
Resource 2B Rebate (3)	\$300/kWh

NOTES:

- (1) This informational sheet is supplemental to Rider DG REBATE – Renewable Energy Distributed Generation Rebate (Rider DG REBATE).
- (2) Per kilowatt (kW) of nameplate generating capacity of the distributed electric renewable generating facility, measured as nominal Direct Current (DC) power output in kW.
- (3) Per kilowatt-hour (kWh) of nameplate capacity of the energy storage facility.
- (4) Rebate amounts will be rounded to the nearest cent.

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Chicago, Illinois 60680-5379

DG REBATE REQUIRED SMART INVERTER SETTINGS

Supplement to Rider DG REBATE (1)

Smart Inverter(s), as defined in the definitions section of Rider DG REBATE - Renewable Energy Distributed Generation Rebate (Rider DG REBATE), must (a) be set to conform to IEEE 1547-2018 requirements, and (b) be capable of normal operating performance category B and abnormal operating performance category III.

Notwithstanding the above, until devices meeting IEEE 1547-2018 are commercially available, devices meeting UL 1741(SA) standards are acceptable and must conform to the settings provided below. The interconnection agreement pursuant to Part 466 or 467 of the Illinois Administrative Code, or operation pursuant thereto, may require setting requirements and functions overriding these default settings requirements and functions.

Retail customers must independently ensure compliance with the continuing obligations in the Retail Customer Continuing Obligations section of Rider DG REBATE or allow the Company to do so, as further described in the requirements in this DG Rebate Required Smart Inverter Settings Informational Sheets.

Required Smart Inverter Settings and Functions:

Table 1. Minimum Requirements for Communication and Interface

Protocol	Transport	Physical Interface/Layer
IEEE 1815 (DNP3)/ SunSpec Modbus/ IEEE 2030.5 (Sep 2.0)	TCP/IP	Ethernet/ RS 485

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(Continued on Informational Sheet No. 50)

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DG REBATE REQUIRED SMART INVERTER SETTINGS

(Continued from Informational Sheet No. 49)

Table 2. Modes of Operation

Mode of Operation	Required/Optional	Description	Default Activation Status
Anti-Islanding	Required	Refers to the ability to detect loss of utility source and cease to energize	Activated
Adjustable constant power factor	Required	Refers to Power Factor set to a fixed value. Some manufactures refer to this as 'Specified Power Factor'	Deactivated
Voltage – Reactive (Volt/var) (1)	Required	Refers to control of reactive power output as a function of voltage	Activated
Ramp Rates	Required	Refers to ability to have an adjustable entry service ramp rate when a Distributed Energy Resource (DER) restores output of active power or changes output levels over the normal course of operation.	Activated
Voltage Ride through	Required	Refers to ability of Smart Inverter to ride through a certain range of voltages before tripping off	Activated
Frequency Ride through	Required	Refers to ability of Smart Inverter to ride through a certain range of frequencies before tripping off	Activated
Voltage – Active Power (Volt/Watt) (3)	Required as available	Refers to control of real power output as a function of voltage	If capable, deactivated
Adjustable Constant Reactive Power (3)	Required as available	Refers to Reactive Power set to a fixed value	If capable, deactivated
Frequency – Watt (3)	Required as available	Refers to control of real power as a function of frequency	If capable, deactivated

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DG REBATE REQUIRED SMART INVERTER SETTINGS

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Table 3. Responses to Islanding and Open Phase Conditions – ACTIVATED

Condition	Maximum Trip Time
Islanding/Open Phase	2 seconds

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DG REBATE REQUIRED SMART INVERTER SETTINGS

(Continued from Informational Sheet No. 51)

Table 4. Low/High Voltage Ride Through Minimum Requirement – ACTIVATED

Region	Voltage Range (% of nominal voltage)	Operating Mode/Response	Minimum Ride - Through Time	Maximum Trip Time
HIGH VOLTAGE 2 (HV2)	$V \geq 120$	Cease to Energize	N/A	0.16 seconds
HIGH VOLTAGE 1 (HV1)	$110 < V < 120$	Momentary Cessation	12 seconds	13 seconds
NEAR NOMINAL VOLTAGE (NN)	$88 \leq V \leq 110$	Continuous Operation	Infinite	N/A
LOW VOLTAGE 1 (LV1)	$70 \leq V < 88$	Mandatory Operation	20 seconds	21 seconds
LOW VOLTAGE 2 (LV2)	$50 \leq V < 70$	Mandatory Operation	10 seconds	11 seconds
LOW VOLTAGE 3 (LV3)	$V < 50$	Momentary Cessation	1 second	1.5 seconds

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DG REBATE REQUIRED SMART INVERTER SETTINGS

(Continued from Informational Sheet No. 52)

Table 5. Low/High Frequency Ride Through Minimum Requirement – ACTIVATED

Region	System Frequency Default Settings	Minimum Range of Adjustability	Ride-Through Until	Ride-Through Operational Mode	Maximum Trip Time
HIGH FREQ 2 (HF2)	$f > 62$	62.0 – 64.0 Hz 61.8 – 66.0 Hz (4)	No Ride-Through	N/A	0.16 seconds
HIGH FREQ 1 (HF1)	$60.5 < f \leq 62$ $61 < f \leq 62$ (4)	60.1 – 62.0 Hz 61.0 – 66.0 Hz (4)	299 seconds	Mandatory Operation	300 seconds
NEAR NOMINAL (NN)	$58.5 \leq f \leq 60.5$ $58.5 \leq f \leq 61$ (4)	N/A	Indefinite	Continuous Operation	N/A
LOW FREQ 1 (LF1)	$57.0 \leq f < 58.5$ $57 \leq f < 58.8$ (4)	57.0 – 59.9 Hz 50.0 – 59.0 Hz (4)	299 seconds	Mandatory Operation	300 seconds
LOW FREQ 2 (LF2)	$f < 57.0$	53.0 – 57.0 Hz 50.0 – 57.0 Hz (4)	No Ride - Through	N/A	0.16 seconds

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DG REBATE REQUIRED SMART INVERTER SETTINGS

(Continued from Informational Sheet No. 53)

Table 6. Volt-var Settings – ACTIVATED

Volt-var parameters	Definitions	Default Values (% of Nominal Voltage)
V2	Dead band lower voltage limit	96.7% VN 97% VN (4)
Q2	Reactive power injection or absorption at voltage V2	0
V3	Dead band upper voltage limit	103.3% VN 103% VN (4)
Q3	Reactive power injection or absorption at voltage V3	0
V1	Voltage at which DER shall inject Q1 reactive power	92.0% VN
Q1	Reactive power injection at voltage V1 (2)	30%
V4	Voltage at which DER shall absorb Q4 reactive power	107.0% VN
Q4	Reactive power absorption at voltage V4 (2)	30%
Open loop response time	Time to 90% of the reactive power change in response to the change in voltage	5 seconds

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DG REBATE REQUIRED SMART INVERTER SETTINGS

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Ramp Rate Settings - ACTIVATED:

- **Normal Ramp-up Rate:** For transitions between energy output levels over the normal course of operation. The default value is 100% of maximum current output per second with a range of adjustment between 1% to 100%.
- **Connect/Reconnect Ramp-up Rate:** Upon starting power into the grid, following a period of inactivity or a disconnection, the inverter shall wait for 300 seconds before reconnecting and shall be able to control its rate of increase of power from 1% to 100% maximum current per second. The default value is 2% of maximum current output per second. The maximum active power steps during restoring output is 20%.

NOTES:

- (1) This informational sheet is supplemental to Rider DG REBATE – Renewable Energy Distributed Generation Rebate (Rider DG REBATE).
- (2) Requires that the Smart Inverter operate with a reactive power priority and produce or absorb reactive power to the ranges specified in Table 6 of these DG Rebate Required Smart Inverter Settings Informational Sheets irrespective of active power production.
- (3) These functions are required in IEEE 1547-2018 standard.
- (4) Upon commercial availability of equipment certified to IEEE 1547-2018 and UL 1741(SB) standards, this modified optional setting is provided to remain within the allowable range of the IEEE 1547-2018 and UL 1741(SB) standards.

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