

FEDERAL ENERGY REGULATORY COMMISSION  
WASHINGTON, DC 20426

OFFICE OF ENERGY MARKET REGULATION

PJM Interconnection, L.L.C.  
Docket No. ER25-360-000

Issued: January 2, 2025

On November 5, 2024, PJM Interconnection, L.L.C. (PJM) submitted an amended Wholesale Market Participation Agreement (WMPA) among PJM, as Transmission Provider, Pechin Solar LLC, as Wholesale Market Participant, and Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company), as Transmission Owner.<sup>1</sup> Pursuant to authority delegated to the Director, Division of Electric Power Regulation – East, under 18 C.F.R. § 375.307, the submittal is accepted for filing, effective January 5, 2025, as requested.

The filing was publicly noticed. No protests or adverse comments were filed. Pursuant to Rule 214 of the Commission’s regulations (18 C.F.R. § 385.214), notices of intervention, timely-filed motions to intervene, and any unopposed motions to intervene out-of-time filed before the issuance date of this order are granted.

This action does not constitute approval of any service, rate, charge, classification, or any rule, regulation, contract, or practice affecting such rate or service provided for in the filed document(s); nor shall such action be deemed as recognition of any claimed contractual right or obligation affecting or relating to such service or rate; and such action is without prejudice to any findings or orders which have been or may hereafter be made by the Commission in any proceeding now pending or hereafter instituted by or against the applicant(s).

This order constitutes final agency action. Requests for rehearing by the Commission may be filed within 30 days of the date of issuance of this order, pursuant to 18 C.F.R. § 385.713.

Issued by: Kurt Longo, Director, Division of Electric Power Regulation – East

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<sup>1</sup> PJM Interconnection, L.L.C., PJM Service Agreements Tariff, [PJM SA No. 5729](#), [PJM SA No. 5729 among PJM, Pechin Solar, and KATCo \(4.0.0\)](#).

Document Content(s)

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November 5, 2024

The Honorable Debbie-Anne Reese, Secretary  
Federal Energy Regulatory Commission  
888 First Street, N.E., Room 1A  
Washington, D.C. 20426-0001

*Re: PJM Interconnection, L.L.C.; Docket No. ER25-360-000*

*Amendment to Service Agreement No. 5729; Queue Position No. AF1-021*

Dear Secretary Reese:

Pursuant to section 205 of the Federal Power Act (“FPA”)<sup>1</sup> and Part 35 of the rules and regulations of the Federal Energy Regulatory Commission (“Commission”),<sup>2</sup> PJM Interconnection, L.L.C. (“PJM”) submits for filing an amended Wholesale Market Participation Agreement (“WMPA”) among PJM, Pechin Solar LLC (“Wholesale Market Participant”), and Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company) (“Transmission Owner”) (collectively, the “Parties”) (the “Amended WMPA”). The Amended WMPA modifies Service Agreement No. 5729 filed with and accepted by the Commission in Docket No. ER21-1174-000,<sup>3</sup> as amended in Docket No. ER23-2901-000, as amended in Docket No. ER24-621-001, effective January 1, 2024 (the “Original WMPA”). PJM submits the Amended WMPA for filing because Commission rules and regulations require any

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<sup>1</sup> 16 U.S.C. § 824d.

<sup>2</sup> 18 C.F.R. Part 35.

<sup>3</sup> *PJM Interconnection, L.L.C.*, Letter Order, Docket No. ER21-1174-000 (Apr. 9, 2021); *PJM Interconnection, L.L.C.*, Letter Order, Docket No. ER23-2901-000 (Nov. 15, 2023); *PJM Interconnection, L.L.C.*, Letter Order, Docket No. ER24-621-001 (Jan. 1, 2024).

change to the provisions of a service agreement on file with the Commission to be filed as a change in rate.<sup>4</sup>

## **I. DESCRIPTION OF THE AMENDED WMPA**

The Amended WMPA reflects changes to (1) introductory paragraph adding a sentence to explain that it is an amended WMPA; (2) section 2.0 (Notices) to update contact information for the Transmission Owner; and (3) section 3.1.2 (Commercial Operation) to update the milestone date. The authorized signatures in the Agreement to Amend (“AA”) and Milestone Change Document (“MCD”) serve as the Parties’ acceptance of the changes reflected in the Amended WMPA. PJM submits the Amended WMPA as effectuated by the attached AA and MCD.<sup>5</sup> The remainder of the Amended WMPA, designated as Service Agreement No. 5729, is substantively unchanged from the Original WMPA.

## **I. REQUESTED EFFECTIVE DATE**

PJM requests an effective date of January 5, 2025 for the Amended WMPA. The requested effective date is more than sixty (60) days after this submission of the Amended WMPA, and thus meets the Commission’s notice requirement.<sup>6</sup>

## **II. DOCUMENTS ENCLOSED**

PJM encloses the following with this transmittal letter:

1. Attachment A: Amended WMPA, Service Agreement No. 5729 (Marked Format);
2. Attachment B: Amended WMPA, Service Agreement No. 5729 (Clean Format);  
and
3. Attachment C: Executed Agreement to Amend and Milestone Change Document.

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<sup>4</sup> 18 C.F.R. § 35.1(c).

<sup>5</sup> The AA and MCD are attached to this transmittal letter as Attachment C.

<sup>6</sup> 18 C.F.R. § 35.3.

### III. CORRESPONDENCE AND COMMUNICATIONS

All notices, communications, or correspondence addressed to PJM regarding this matter should be directed to, and PJM requests that the Secretary include on the Commission's official service list,<sup>7</sup> the following:

Craig Glazer  
Vice President–Federal Government Policy  
PJM Interconnection, L.L.C.  
1200 G Street, N.W, Suite 600  
Washington, D.C. 20005  
(202) 423-4743  
[Craig.Glazer@pjm.com](mailto:Craig.Glazer@pjm.com)

Salvia Yi  
Counsel, Office of the General Counsel  
PJM Interconnection, L.L.C.  
2750 Monroe Blvd.  
Audubon, Pennsylvania 19403  
(484) 501-4619  
[Salvia.Yi@pjm.com](mailto:Salvia.Yi@pjm.com)

Christopher Holt  
Managing Counsel  
PJM Interconnection, L.L.C.  
2750 Monroe Boulevard  
Audubon, PA 19403-2497  
(610) 666-2368  
[Christopher.Holt@pjm.com](mailto:Christopher.Holt@pjm.com)

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<sup>7</sup> PJM requests waiver of Commission Rule 203(b)(3) (18 C.F.R. § 385.203(b)(3)), so that each named person may be included on the official service list.

#### IV. SERVICE

Copies of this filing have been served upon Wholesale Market Participant, Transmission Owner, and the state utility regulatory commissions within the PJM Region.

Respectfully submitted,

/s/ Salvia Yi

Craig Glazer  
Vice President – Federal Government Policy  
PJM Interconnection, L.L.C.  
1200 G Street, NW, Suite 600  
Washington, D.C. 20005  
(202) 423-4743 (phone)  
[Craig.Glazer@pjm.com](mailto:Craig.Glazer@pjm.com)

Salvia Yi  
Counsel, Office of the General Counsel  
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2750 Monroe Blvd.  
Audubon, Pennsylvania 19403  
(484) 501-4619  
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Managing Counsel  
PJM Interconnection, L.L.C.  
2750 Monroe Boulevard  
Audubon, PA 19403-2497  
(610) 666-2368  
[Christopher.Holt@pjm.com](mailto:Christopher.Holt@pjm.com)

cc (via email):

Wholesale Market Participant  
Charles Vogel – [Charles.vogel@oridenpower.com](mailto:Charles.vogel@oridenpower.com)

Transmission Owner  
Scott Perry - [seperry@firstenergycorp.com](mailto:seperry@firstenergycorp.com)  
[djacobson@firstenergycorp.com](mailto:djacobson@firstenergycorp.com)  
[ltynes\\_kunzo@firstenergycorp.com](mailto:ltynes_kunzo@firstenergycorp.com)

All state utility regulatory commissions within the PJM Region

# **ATTACHMENT A**

**Amended WMPA, Service Agreement No. 5729  
(Marked Format)**

(PJM Queue #AF1-021)

**WHOLESALE MARKET PARTICIPATION AGREEMENT**

**Among**

**PJM INTERCONNECTION, L.L.C.**

**And**

**PECHIN SOLAR LLC**

**And**

**KEYSTONE APPALACHIAN TRANSMISSION COMPANY (AS AGENT FOR  
FIRSTENERGY PENNSYLVANIA ELECTRIC COMPANY)**



**WHOLESALE MARKET PARTICIPATION AGREEMENT**

**By and Among  
PJM Interconnection, L.L.C.**

**And  
Pechin Solar LLC**

**And  
Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania  
Electric Company)  
(PJM Queue Position #AF1-021)**

This Wholesale Market Participation Agreement (“WMPA”) including the Specifications, and Schedules attached hereto and incorporated herein, is entered into in order to effectuate sales of energy and/or capacity into PJM’s wholesale markets, by and between PJM Interconnection, L.L.C., the Regional Transmission Organization for the PJM Region (“Transmission Provider”), Pechin Solar LLC (“Wholesale Market Participant”) and Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company) (“Transmission Owner”) (referred to individually as “Party” or collectively as “the Parties”).

This WMPA amends the Wholesale Market Participation Agreement among the Parties, Service Agreement No. 5729, accepted for filing by the Commission in Docket No. ER21-1174-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER23-2901-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER24-621-001, and effective January 1, 2024. ~~This WMPA amends the Wholesale Market Participation Agreement among the Parties, Service Agreement No. 5729 effective July 9, 2020, filed with and accepted by the Federal Energy Regulatory Commission “FERC” or “Commission” in Docket No. ER21-1174-000. This WMPA amends the WMPA among PJM, Pechin Solar, and West Penn Power Company, Service Agreement No. 5729, amendments effective November 20, 2023, filed with the Federal Energy Regulatory Commission in Docket No. ER23-2901-000.~~

**WITNESSETH**

WHEREAS, Wholesale Market Participant is developing generation that it intends to use to engage in Wholesale Transactions in PJM’s markets and desires to maintain its proposed generation in the queue that PJM studies for potential reliability impacts to the Transmission System;

WHEREAS, Wholesale Market Participant is seeking to interconnect at a local distribution or sub-transmission facility, which at this time is not subject to FERC jurisdiction; and

WHEREAS, Wholesale Market Participant and Transmission Owner or its affiliate must enter into a separate two-party interconnection agreement (“Interconnection Agreement”) in order to address issues of physical interconnection and local charges that may be presented by the interconnection of Wholesale Market Participant’s generation to the distribution facility.

NOW, THEREFORE, in consideration of the mutual covenants herein contained, together with other good and valuable consideration, the receipt and sufficiency is hereby mutually acknowledged by Transmission Provider, Transmission Owner and Wholesale Market Participant and the parties agree to assume all of the rights and obligations consistent with the rights and obligations relating to Network Upgrades, Local Upgrades and metering requirements set forth in Part VI of the Tariff, as of the effective date of this WMPA, required for Wholesale Market Participant to make Wholesale Transactions in PJM’s markets. The Parties mutually covenant and agree as follows:

## **Article 1 – DEFINITIONS and OTHER DOCUMENTS**

- 1.0 Defined Terms.** All capitalized terms herein shall have the meanings as set forth in the definitions of such terms as stated in Part I, Article 1 or Part VI of the PJM Open Access Transmission Tariff (“Tariff”), except Wholesale Market Participant which shall be defined in this WMPA as a participant in a Wholesale Transaction.
- 1.1 Effective Date.** This WMPA shall become effective on the date it is executed by all Parties, or, if this WMPA is filed with FERC unexecuted, upon the date specified by FERC. This WMPA shall terminate on such date as mutually agreed upon by the parties, unless earlier terminated consistent with Section 1 in Attachment O, Appendix 2, Part VI of the Tariff.
- 1.2 Assumption of Tariff Obligations.** Wholesale Market Participant agrees to abide by all rules and procedures pertaining to generation and transmission in the PJM Region, including but not limited to the rules and procedures concerning the dispatch of generation or scheduling transmission set forth in the Tariff, the Operating Agreement and the PJM Manuals.
- 1.3 Incorporation Of Other Documents.** All portions of the Tariff and the Operating Agreement pertinent to the subject matter of this WMPA and not otherwise made a part hereof are hereby incorporated herein and made a part hereof.

## **Article 2 - NOTICES and MISCELLANEOUS**

- 2.0 Notices.** Any notice, demand or request required or permitted to be given by any Party to another and any instrument required or permitted to be tendered or delivered by any Party in writing to another may be so given, tendered or delivered by recognized national courier or by depositing the same with the United States Postal Service, with postage prepaid for delivery by certified or registered mail addressed to the Party, or by personal delivery to the Party, at the address specified below. Such notices, if agreed to by the Parties, may be made via electronic means, with e-mail confirmation of delivery.

Transmission Provider:

PJM Interconnection, L.L.C.  
2750 Monroe Blvd.  
Audubon, PA 19403-2497

Wholesale Market Participant:  
Pechin Solar LLC  
106 Isabella St., Suite 400  
Pittsburgh, PA 15212  
Attn: Charles A. Vogel

Transmission Owner:

Keystone Appalachian Transmission Company (as agent for FirstEnergy  
Pennsylvania Electric Company)

76 South Main Street

Akron, OH 44308

Attn: Scott Perry, or successor, FERC & Wholesale Connection Support Manager

Email: [seperry@firstenergycorp.com](mailto:seperry@firstenergycorp.com)

Phone: (330) 384-2587

Fax: (330) 761-4338

with copies to:

Legal Department

FirstEnergy Service Company

76 South Main Street

Akron, OH 44308

Attn: Attorney for FERC & Wholesale Connection Support

Email: [djacobson@firstenergycorp.com](mailto:djacobson@firstenergycorp.com)

CC: [ltynes\\_kunzo@firstenergycorp.com](mailto:ltynes_kunzo@firstenergycorp.com)

Phone: (330) 384-5947

Fax: (330) 761-4338

~~Keystone Appalachian Transmission Company (as agent for FirstEnergy  
Pennsylvania Electric Company)~~

~~76 South Main Street, 10<sup>th</sup> Floor~~

~~Akron, OH 44308~~

~~Attn: Manager, FERC & Wholesale Connection Support~~

~~[mthorn@firstenergycorp.com](mailto:mthorn@firstenergycorp.com) (330) 384-3889~~

~~With copies to:~~

~~FirstEnergy Service Company~~

~~Legal Department~~

~~76 South Main Street, 15<sup>th</sup> Floor~~

~~Akron, OH 44308~~

~~Attn: Attorney for FERC & Wholesale Connection~~

~~[ajadue@firstenergycorp.com](mailto:ajadue@firstenergycorp.com)~~

~~(330) 384-5947~~

Either Party may change its address or designated representative for notice by notice to the other Parties in the manner provided for above.

- 2.1 Construction With Other Parts Of The Tariff.** This WMPA shall not be construed as an application for service under Part II or Part III of the Tariff.

- 2.2 Warranty for Facilities Study.** In analyzing and preparing the Combined Feasibility and System Impact Study, and in designing and constructing the Local Upgrades and/or Network Upgrades described in Part II of the Tariff and in the Specifications attached to this WMPA, Transmission Provider, the Transmission Owner(s), and any other subcontractors employed by Transmission Provider have had to, and shall have to, rely on information provided by Wholesale Market Participant and possibly by third parties and may not have control over the accuracy of such information. Accordingly, NEITHER TRANSMISSION PROVIDER, THE TRANSMISSION OWNER(s), NOR ANY OTHER SUBCONTRACTORS EMPLOYED BY TRANSMISSION PROVIDER OR TRANSMISSION OWNER MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW, COURSE OF PERFORMANCE OR DEALING, CUSTOM, USAGE IN THE TRADE OR PROFESSION, OR OTHERWISE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE ACCURACY, CONTENT, OR CONCLUSIONS OF THE FACILITIES STUDY OR THE SYSTEM IMPACT STUDY IF A FACILITIES STUDY WAS NOT REQUIRED OR OF THE LOCAL UPGRADES AND/OR THE NETWORK UPGRADES, PROVIDED, HOWEVER, that Transmission Provider warrants that the Transmission Owner Facilities described in the Specifications will be designed and constructed (to the extent that Transmission Owner is responsible for design and construction thereof) and operated in accordance with Good Utility Practice, as such term is defined in the Operating Agreement. Wholesale Market Participant acknowledges that it has not relied on any representations or warranties not specifically set forth herein and that no such representations or warranties have formed the basis of its bargain hereunder.
- 2.3 Waiver.** No waiver by any party of one or more defaults by the other in performance of any of the provisions of this WMPA shall operate or be construed as a waiver of any other or further default or defaults, whether of a like or different character.
- 2.4 Amendment.** This WMPA or any part thereof, may not be amended, modified, or waived other than by a written document signed by all parties hereto.
- 2.5 Addendum of Wholesale Market Participant's Agreement to Conform with IRS Safe Harbor Provisions for Non-Taxable Status.** To the extent required, in accordance with Section 24.1 in Attachment O, Appendix 2 in Part VI of the Tariff, Schedule E to this WMPA shall set forth the Wholesale Market Participant's agreement to conform with the IRS safe harbor provisions for non-taxable status.
- 2.6 Assignment**

**2.6.1 Assignment with Prior Consent:**

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned, and such Interconnection Agreement was

assigned, then, except as provided in Section 2.6.2 of this WMPA, no Party shall assign its rights or delegate its duties under this WMPA without the prior written consent of the other Parties, which consent shall not be unreasonably withheld, conditioned, or delayed; and any such assignment or delegation made without such prior written consent shall be null and void. A Party may make an assignment in connection with the sale, merger, or transfer of all of its properties, including the Participant Facility, which it owns, so long as the assignee in such a sale, merger, or transfer assumes in writing all rights, duties and obligations arising under this WMPA. In addition, the Transmission Owner shall be entitled, subject to applicable laws and regulations, to assign the WMPA to an Affiliate or successor that owns and operates all or a substantial portion of the Transmission Owner's transmission facilities.

## **2.6.2 Assignment without Prior Consent**

### **2.6.2.1 Assignment to Owners:**

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned, and such Interconnection Agreement was assigned, then the Wholesale Market Participant may assign its rights or delegate its duties under this WMPA without the Transmission Owner's or Transmission Provider's prior consent to any Affiliate or person that purchases or otherwise acquires, directly or indirectly, all of the Participant Facility, provided that prior to the effective date of any such assignment: (1) the assignee shall demonstrate that, as of the effective date of the assignment, the assignee has the technical and operational competence to comply with the requirements of this WMPA; and (2) in writing to the Transmission Owner and Transmission Provider, assignee assumes all rights, duties, and obligations of Wholesale Market Participant arising under this WMPA. However, any assignment described herein shall not relieve or discharge the Wholesale Market Participant from any of its obligations hereunder absent the written consent of the Transmission Provider, such consent not to be unreasonably withheld, conditioned or delayed.

### **2.6.2.2 Assignment to Lenders:**

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned to any Project Finance Entity(ies), and such Interconnection Agreement was assigned, then the Wholesale Market Participant may, without consent of the Transmission Provider or the Transmission Owner, assign this WMPA to such Project Finance Entity(ies), provided that such assignment does not alter or diminish Wholesale Market Participant's duties and obligations under this WMPA. If Wholesale Market Participant provides the Transmission Owner and Transmission Provider with notice of an assignment to such Project Finance Entity(ies) and identifies such Project Finance Entity(ies) as a contact for notice of Breach consistent with

section 15.3 of Attachment O, Appendix 2 in Part VI of the Tariff, the Transmission Provider or Transmission Owner shall provide notice and reasonable opportunity for such Project Finance Entity(ies) to cure any Breach under this WMPA in accordance with this WMPA. Transmission Provider or Transmission Owner shall, if requested by such Project Finance Entity(ies), provide such customary and reasonable documents, including consents to assignment, as may be reasonably requested with respect to the assignment and status of this WMPA, provided that such documents do not alter or diminish the rights of the Transmission Provider or Transmission Owner under this WMPA, except with respect to providing notice of Breach consistent with section 15.3 of Attachment O, Appendix 2 in Part VI of the Tariff, to such Project Finance Entity(ies). Upon presentation of the Transmission Provider and/or Transmission Owner's invoice therefor, Wholesale Market Participant shall pay the Transmission Provider and/or the Transmission Owner's reasonable documented cost of providing such documents and certificates as requested by such Project Finance Entity(ies). Any assignment described herein shall not relieve or discharge the Wholesale Market Participant from any of its obligations hereunder absent the written consent of the Transmission Owner and Transmission Provider.

### **2.6.3 Successors and Assigns:**

This WMPA and all of its provisions are binding upon, and inure to the benefit of, the Parties and their respective successors and permitted assigns.

## **ARTICLE 3 – Responsibility for Network or Local Upgrades**

- 3.0 Security for Network or Local Upgrades.** Consistent with Section 212.4 in Part VI of the Tariff, Wholesale Market Participant, on or before the effective date of this WMPA, shall provide the Transmission Provider (for the benefit of the Transmission Owner) with a letter of credit from an agreed provider or other form of security reasonably acceptable to the Transmission Provider and that names the Transmission Provider as beneficiary ("Security") in the amount of \$0. This amount represents the sum of the estimated Costs, determined consistent with Section 217 in Part VI of the Tariff, of (i) the Local Upgrades and/or Network Upgrades described in Section 3.4 of this WMPA less any Costs already paid by the Wholesale Market Participant. Should Wholesale Market Participant fail to provide Security in the amount or form required in the first sentence of this Section, this WMPA shall be terminated. Wholesale Market Participant acknowledges that its ultimate cost responsibility consistent with Section 217 in Part VI of the Tariff will be based upon the actual Costs of the facilities described in the Specifications to this WMPA, whether greater or lesser than the amount of the Security provided under this Section.
- 3.1 Project Specific Milestones.** During the term of this WMPA, Wholesale Market Participant shall ensure that it meets each of the following milestones:

- 3.1.1 Substantial Site work completed.** On or before October 31, 2023, Wholesale Market Participant must demonstrate completion of at least 20% of project site construction.
- 3.1.2 Commercial Operation.** (i) On or before ~~March 31~~November 29, 2024, Wholesale Market Participant must demonstrate commercial operation of all generating units; (ii) On or before ~~March 31~~November 29, 2024, Wholesale Market Participant must demonstrate commercial sale or use of energy and, if applicable obtain capacity qualification consistent with the requirements of the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region.
- 3.1.3 Documentation.** Within one (1) month following commercial operation of generating unit(s), Wholesale Market Participant must provide certified documentation demonstrating that “as-built” Participant Facility are consistent with applicable PJM studies and agreements. Wholesale Market Participant must also provide PJM with “as-built” electrical modeling data or confirm that previously submitted data remains valid.
- 3.1.4 Interconnection Agreement.** On or before October 31, 2021, Wholesale Market Participant must enter into an Interconnection Agreement with the Transmission Owner in order to effectuate the WMPA.

Wholesale Market Participant shall demonstrate the occurrence of each of the foregoing milestones to Transmission Provider’s reasonable satisfaction. Transmission Provider may reasonably extend any such milestone dates, in the event of delays that Wholesale Market Participant (i) did not cause and (ii) could not have remedied through the exercise of due diligence.

If (i) the Wholesale Market Participant suspends work pursuant to a suspension provision contained in an interconnection and/or construction agreement with the Transmission Owner or (ii) the Transmission Owner extends the date by which Wholesale Market Participant must enter into an interconnection agreement relative to this WMPA, and (iii) the Wholesale Market Participant has not made a wholesale sale under this WMPA, the Wholesale Market Participant may suspend this WMPA by notifying the Transmission Provider and the Transmission Owner in writing that it wishes to suspend this WMPA, with the condition that, notwithstanding such suspension, the Transmission System shall be left in a safe and reliable condition in accordance with Good Utility Practice and Transmission Provider’s safety and reliability criteria. Wholesale Market Participant’s notice of suspension shall include an estimated duration of the suspension period and other information related to the suspension. Pursuant to this section 3.1, Wholesale Market Participant may request one or more suspensions of work under this WMPA for a cumulative period of up to a maximum of three years. If, however, the suspension will result in a Material Modification as defined in Part I, Section 1.18A.02 of the Tariff, then such suspension period shall be no greater than one (1) year. If the Wholesale Market



Participant suspends this WMPA pursuant to this Section 3.1 and has not provided written notice that it will exit such suspension on or before the expiration of the suspension period described herein, this WMPA shall be deemed terminated as of the end of such suspension period. The suspension time shall begin on the date the suspension is requested or on the date of the Wholesale Market Participant's written notice of suspension to Transmission Provider, if no effective date was specified. All milestone dates stated in this Section 3.1 shall be deemed to be extended coextensively with any suspension period permitted pursuant to this provision.

IN WITNESS WHEREOF, Transmission Provider, Wholesale Market Participant and Transmission Owner have caused this WMPA to be executed by their respective authorized officials. By each individual signing below, each represents to the other that they are duly authorized to sign on behalf of their company and have the actual and/or apparent authority to bind the respective company to this WMPA.

(PJM Queue Position #AF1-021)

Transmission Provider: **PJM Interconnection, L.L.C.**

By: \_\_\_\_\_  
Name Title Date

Printed name of signer: \_\_\_\_\_

Wholesale Market Participant: **Pechin Solar LLC**

By: \_\_\_\_\_  
Name Title Date

Printed name of signer: \_\_\_\_\_

Transmission Owner: **Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)**

By: \_\_\_\_\_  
Name Title Date

Printed name of signer: \_\_\_\_\_

~~ALL SIGNATURE LINES INTENTIONALLY LEFT BLANK — The Agreement to Amend is considered fully executed on the date of the last Party's signature and effective as of the date established by the Commission.~~

All signature lines intentionally left blank. See Agreement to Amend and Milestone Change Document executed by the Parties on [DATE PENDING] October 6, 2024.

**SPECIFICATIONS FOR  
WHOLESALE MARKET PARTICIPATION AGREEMENT**

**By and Among  
PJM INTERCONNECTION, L.L.C.**

**And  
Pechin Solar LLC**

**And  
Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania  
Electric Company)  
(PJM Queue Position # AF1-021)**

**1.0 Description of generating unit(s)** (the “Participant Facility”) to be used for the provision of wholesale sales into the PJM markets:

a. Name of Participant Facility:

Dunbar Solar Farm

b. Location of Participant Facility:

179 Pechin Road  
Dunbar, PA 15431

c. Size in megawatts of Participant Facility:

Maximum Facility Output of 14 MW

d. Description of the equipment configuration:

A ground-mounted, inverter-based, solar photovoltaic generating facility consisting of solar arrays and step-up transformation with a high-side voltage of 25 kV.

**2.0 Rights for Generation Wholesale Market Participant**

**2.1 Capacity Interconnection Rights:**

Consistent with the applicable terms of the Tariff, the Wholesale Market Participant shall have Capacity Interconnection Rights at the point(s) of interconnection specified in Schedule A of this Wholesale Market Participant Agreement in the amount of 8.4 MW; provided however, nothing in this WMPA provides any rights with regard to the use of distribution facilities.

Pursuant to and subject to the applicable terms of the Tariff, the Wholesale Market Participant shall have Capacity Interconnection Rights at the Point(s) of

Interconnection specified in this Wholesale Market Participation Agreement in the amount of 8.4 MW commencing June 1, 2023. During the time period from the effective date of this WMPA until May 31, 2023 (the “interim time period”), the Wholesale Market Participant may be awarded interim Capacity Interconnection Rights in an amount not to exceed 8.4 MW. The availability and amount of such interim Capacity Interconnection Rights shall be dependent upon completion and results of an interim deliverability study. Any interim Capacity Interconnection Rights awarded during the interim time period shall terminate on May 31, 2023.

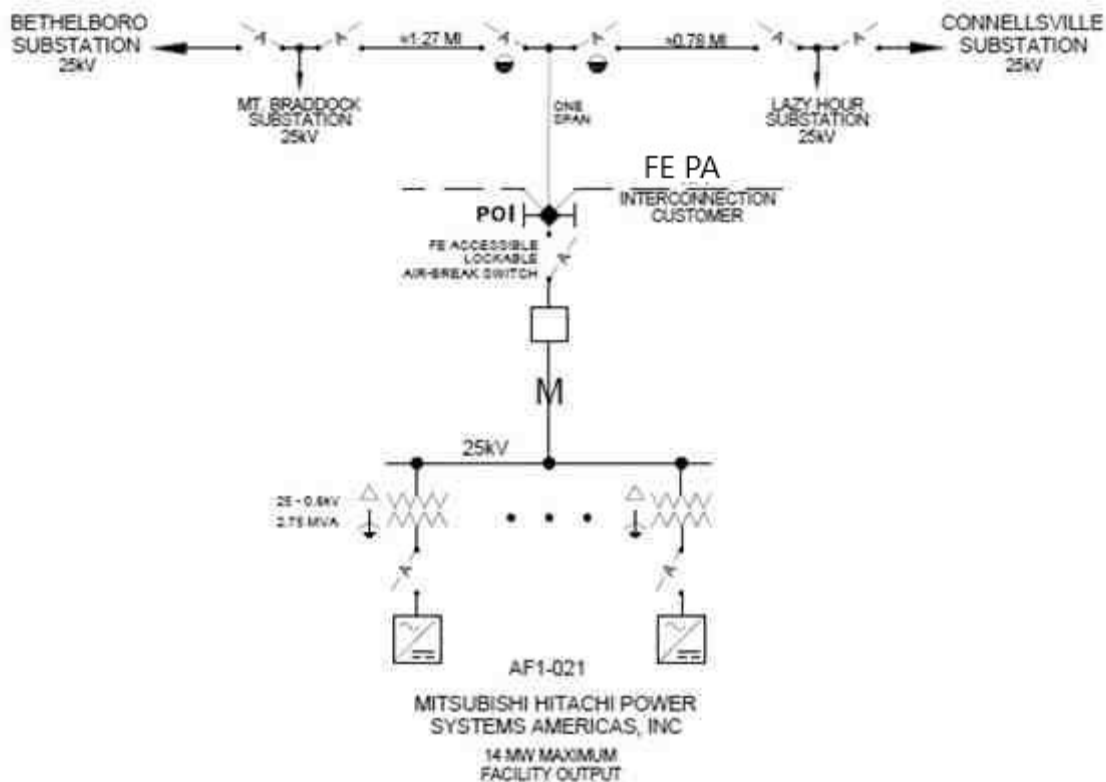
To the extent that any portion of the Participant Facility described in Section 1.0 is not a Capacity Resource with Capacity Interconnection Rights, such portion of the Participant Facility shall be an Energy Resource. Pursuant to this WMPA, the Wholesale Market Participant may sell energy into PJM’s markets in an amount equal to the Participant Facility’s Maximum Facility Output indicated in Section 1.0c of the Specifications for this WMPA. PJM reserves the right to limit injections in the event reliability would be affected by output greater than such quantity.

- 3.0 Ownership and Location of Metering Equipment.** The metering equipment to be constructed, the capability of the metering equipment to be constructed, and the ownership thereof, as required for the Wholesale Transactions shall be identified on the attached Schedule B to this WMPA, and provided consistent with the PJM manuals.

**SCHEDULES:**

- **SCHEDULE A - SINGLE-LINE DIAGRAM (Showing point of interconnection)**
- **SCHEDULE B - LIST OF METERING EQUIPMENT**
- **SCHEDULE C - LIST OF LOCAL/NETWORK UPGRADES**
- **SCHEDULE D - APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS**
- **SCHEDULE E - WHOLESALE MARKET PARTICIPATION AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS**
- **SCHEDULE F – SCHEDULE OF NON-STANDARD TERMS & CONDITIONS**

**SCHEDULE A**  
**SINGLE-LINE DIAGRAM**



◆ = POI (POINT OF INTERCONNECTION) LOCATED AT INTERCONNECTION CUSTOMER'S DEAD-END STRUCTURE WHERE FE PA OWNED 25kV TRANSMISSION LINE TERMINATES

M = REVENUE METERING FOR INTERCONNECTION CUSTOMER IS OWNED, OPERATED, AND MAINTAINED BY FE PA

● = SCADA CONTROL

<b>FirstEnergy</b> Energy Delivery Technical Services		TITLE MITSUBISHI HITACHI POWER SYSTEMS AMERICAS INC, INTERCONNECTION TO THE FE PA OWNED BETHELBORO-CONNELLSVILLE 25kV LINE	
1/1 1/1	1/1 1/1	1/1 1/1	1/1 1/1 POI-FEPA-AF1-021 1

## **SCHEDULE B**

### **LIST OF METERING EQUIPMENT**

Wholesale Market Participant's metering and telemetry equipment shall comply with the requirements specified in PJM Manuals M-01 and M-14D.



**SCHEDULE C**

**LIST OF LOCAL/NETWORK UPGRADES**

Not Required.

## **SCHEDULE D**

### **APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS**

Not Required.

## **SCHEDULE E**

### **WHOLESALE MARKET PARTICIPATION AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS**

As provided in Section 24.1 in Attachment O, Appendix 2 in Part VI of the Tariff and subject to the requirements thereof, Wholesale Market Participant represents that it meets all qualifications and requirements as set forth in Section 118(a) and 118(b) of the Internal Revenue Code of 1986, as amended and interpreted by Notice 2016-36, 2016-25 I.R.B. (6/20/2016) (the “IRS Notice”). Wholesale Market Participant agrees to conform with all requirements of the safe harbor provisions specified in the IRS Notice, as they may be amended, as required to confer non-taxable status on some or all of the transfer of property, including money, by Wholesale Market Participant to Transmission Owner with respect to the payment of the Costs of construction and installation of the Transmission Owner Interconnection Facilities specified in this WMPA.

Nothing in Wholesale Market Participant’s agreement pursuant to this Schedule E shall change the indemnification obligations under Section 24.2 in Attachment O, Appendix 2 in Part VI of the Tariff.

**SCHEDULE F**

**SCHEDULE OF NON-STANDARD TERMS & CONDITIONS**

Not Required.

# **ATTACHMENT B**

**Amended WMPA, Service Agreement No. 5729  
(Clean Format)**

(PJM Queue #AF1-021)

**WHOLESALE MARKET PARTICIPATION AGREEMENT**

**Among**

**PJM INTERCONNECTION, L.L.C.**

**And**

**PECHIN SOLAR LLC**

**And**

**KEYSTONE APPALACHIAN TRANSMISSION COMPANY (AS AGENT FOR  
FIRSTENERGY PENNSYLVANIA ELECTRIC COMPANY)**

**WHOLESALE MARKET PARTICIPATION AGREEMENT**

**By and Among  
PJM Interconnection, L.L.C.**

**And  
Pechin Solar LLC**

**And  
Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania  
Electric Company)  
(PJM Queue Position #AF1-021)**

This Wholesale Market Participation Agreement (“WMPA”) including the Specifications, and Schedules attached hereto and incorporated herein, is entered into in order to effectuate sales of energy and/or capacity into PJM’s wholesale markets, by and between PJM Interconnection, L.L.C., the Regional Transmission Organization for the PJM Region (“Transmission Provider”), Pechin Solar LLC (“Wholesale Market Participant”) and Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company) (“Transmission Owner”) (referred to individually as “Party” or collectively as “the Parties”). This WMPA amends the Wholesale Market Participation Agreement among the Parties, Service Agreement No. 5729, accepted for filing by the Commission in Docket No. ER21-1174-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER23-2901-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER24-621-001, and effective January 1, 2024.

**WITNESSETH**

WHEREAS, Wholesale Market Participant is developing generation that it intends to use to engage in Wholesale Transactions in PJM’s markets and desires to maintain its proposed generation in the queue that PJM studies for potential reliability impacts to the Transmission System;

WHEREAS, Wholesale Market Participant is seeking to interconnect at a local distribution or sub-transmission facility, which at this time is not subject to FERC jurisdiction; and

WHEREAS, Wholesale Market Participant and Transmission Owner or its affiliate must enter into a separate two-party interconnection agreement (“Interconnection Agreement”) in order to address issues of physical interconnection and local charges that may be presented by the interconnection of Wholesale Market Participant’s generation to the distribution facility.

NOW, THEREFORE, in consideration of the mutual covenants herein contained, together with other good and valuable consideration, the receipt and sufficiency is hereby mutually acknowledged by Transmission Provider, Transmission Owner and Wholesale Market Participant and the parties agree to assume all of the rights and obligations consistent with the rights and obligations relating to Network Upgrades, Local Upgrades and metering requirements set forth in Part VI of the Tariff, as of the effective date of this WMPA, required for Wholesale Market Participant to make Wholesale Transactions in PJM's markets. The Parties mutually covenant and agree as follows:



## **Article 1 – DEFINITIONS and OTHER DOCUMENTS**

- 1.0 Defined Terms.** All capitalized terms herein shall have the meanings as set forth in the definitions of such terms as stated in Part I, Article 1 or Part VI of the PJM Open Access Transmission Tariff (“Tariff”), except Wholesale Market Participant which shall be defined in this WMPA as a participant in a Wholesale Transaction.
- 1.1 Effective Date.** This WMPA shall become effective on the date it is executed by all Parties, or, if this WMPA is filed with FERC unexecuted, upon the date specified by FERC. This WMPA shall terminate on such date as mutually agreed upon by the parties, unless earlier terminated consistent with Section 1 in Attachment O, Appendix 2, Part VI of the Tariff.
- 1.2 Assumption of Tariff Obligations.** Wholesale Market Participant agrees to abide by all rules and procedures pertaining to generation and transmission in the PJM Region, including but not limited to the rules and procedures concerning the dispatch of generation or scheduling transmission set forth in the Tariff, the Operating Agreement and the PJM Manuals.
- 1.3 Incorporation Of Other Documents.** All portions of the Tariff and the Operating Agreement pertinent to the subject matter of this WMPA and not otherwise made a part hereof are hereby incorporated herein and made a part hereof.

## **Article 2 - NOTICES and MISCELLANEOUS**

- 2.0 Notices.** Any notice, demand or request required or permitted to be given by any Party to another and any instrument required or permitted to be tendered or delivered by any Party in writing to another may be so given, tendered or delivered by recognized national courier or by depositing the same with the United States Postal Service, with postage prepaid for delivery by certified or registered mail addressed to the Party, or by personal delivery to the Party, at the address specified below. Such notices, if agreed to by the Parties, may be made via electronic means, with e-mail confirmation of delivery.

Transmission Provider:

PJM Interconnection, L.L.C.  
2750 Monroe Blvd.  
Audubon, PA 19403-2497

Wholesale Market Participant:  
Pechin Solar LLC  
106 Isabella St., Suite 400  
Pittsburgh, PA 15212  
Attn: Charles A. Vogel

Transmission Owner:  
Keystone Appalachian Transmission Company (as agent for FirstEnergy  
Pennsylvania Electric Company)  
76 South Main Street  
Akron, OH 44308  
Attn: Scott Perry, or successor, FERC & Wholesale Connection Support Manager  
Email: [sepperry@firstenergycorp.com](mailto:sepperry@firstenergycorp.com)  
Phone: (330) 384-2587  
Fax: (330) 761-4338

with copies to:

Legal Department  
FirstEnergy Service Company  
76 South Main Street  
Akron, OH 44308  
Attn: Attorney for FERC & Wholesale Connection Support  
Email: [djacobson@firstenergycorp.com](mailto:djacobson@firstenergycorp.com)  
CC: [ltynes\\_kunzo@firstenergycorp.com](mailto:ltynes_kunzo@firstenergycorp.com)  
Phone: (330) 384-5947  
Fax: (330) 761-4338

Either Party may change its address or designated representative for notice by notice to the other Parties in the manner provided for above.

- 2.1 Construction With Other Parts Of The Tariff.** This WMPA shall not be construed as an application for service under Part II or Part III of the Tariff.
- 2.2 Warranty for Facilities Study.** In analyzing and preparing the Combined Feasibility and System Impact Study, and in designing and constructing the Local Upgrades and/or Network Upgrades described in Part II of the Tariff and in the Specifications attached to this WMPA, Transmission Provider, the Transmission Owner(s), and any other subcontractors employed by Transmission Provider have had to, and shall have to, rely on information provided by Wholesale Market Participant and possibly by third parties and may not have control over the accuracy of such information. Accordingly, NEITHER TRANSMISSION PROVIDER, THE TRANSMISSION OWNER(s), NOR ANY OTHER SUBCONTRACTORS EMPLOYED BY TRANSMISSION PROVIDER OR TRANSMISSION OWNER MAKES ANY WARRANTIES, EXPRESS OR IMPLIED, WHETHER ARISING BY OPERATION OF LAW, COURSE OF PERFORMANCE OR DEALING, CUSTOM, USAGE IN THE TRADE OR PROFESSION, OR OTHERWISE, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WITH REGARD TO THE ACCURACY, CONTENT, OR CONCLUSIONS OF THE FACILITIES STUDY OR THE SYSTEM IMPACT STUDY IF A FACILITIES STUDY WAS NOT REQUIRED OR OF THE LOCAL UPGRADES AND/OR THE NETWORK UPGRADES, PROVIDED, HOWEVER, that Transmission Provider warrants that the

Transmission Owner Facilities described in the Specifications will be designed and constructed (to the extent that Transmission Owner is responsible for design and construction thereof) and operated in accordance with Good Utility Practice, as such term is defined in the Operating Agreement. Wholesale Market Participant acknowledges that it has not relied on any representations or warranties not specifically set forth herein and that no such representations or warranties have formed the basis of its bargain hereunder.

**2.3 Waiver.** No waiver by any party of one or more defaults by the other in performance of any of the provisions of this WMPA shall operate or be construed as a waiver of any other or further default or defaults, whether of a like or different character.

**2.4 Amendment.** This WMPA or any part thereof, may not be amended, modified, or waived other than by a written document signed by all parties hereto.

**2.5 Addendum of Wholesale Market Participant's Agreement to Conform with IRS Safe Harbor Provisions for Non-Taxable Status.** To the extent required, in accordance with Section 24.1 in Attachment O, Appendix 2 in Part VI of the Tariff, Schedule E to this WMPA shall set forth the Wholesale Market Participant's agreement to conform with the IRS safe harbor provisions for non-taxable status.

## **2.6 Assignment**

### **2.6.1 Assignment with Prior Consent:**

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned, and such Interconnection Agreement was assigned, then, except as provided in Section 2.6.2 of this WMPA, no Party shall assign its rights or delegate its duties under this WMPA without the prior written consent of the other Parties, which consent shall not be unreasonably withheld, conditioned, or delayed; and any such assignment or delegation made without such prior written consent shall be null and void. A Party may make an assignment in connection with the sale, merger, or transfer of all of its properties, including the Participant Facility, which it owns, so long as the assignee in such a sale, merger, or transfer assumes in writing all rights, duties and obligations arising under this WMPA. In addition, the Transmission Owner shall be entitled, subject to applicable laws and regulations, to assign the WMPA to an Affiliate or successor that owns and operates all or a substantial portion of the Transmission Owner's transmission facilities.

### **2.6.2 Assignment without Prior Consent**

#### **2.6.2.1 Assignment to Owners:**

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned, and such Interconnection Agreement

was assigned, then the Wholesale Market Participant may assign its rights or delegate its duties under this WMPA without the Transmission Owner's or Transmission Provider's prior consent to any Affiliate or person that purchases or otherwise acquires, directly or indirectly, all of the Participant Facility, provided that prior to the effective date of any such assignment: (1) the assignee shall demonstrate that, as of the effective date of the assignment, the assignee has the technical and operational competence to comply with the requirements of this WMPA; and (2) in writing to the Transmission Owner and Transmission Provider, assignee assumes all rights, duties, and obligations of Wholesale Market Participant arising under this WMPA. However, any assignment described herein shall not relieve or discharge the Wholesale Market Participant from any of its obligations hereunder absent the written consent of the Transmission Provider, such consent not to be unreasonably withheld, conditioned or delayed.

#### **2.6.2.2 Assignment to Lenders:**

If the Interconnection Agreement between the Wholesale Market Participant and the Transmission Owner, as referenced in section 3.1.4 herein, provides that such Interconnection Agreement may be assigned to any Project Finance Entity(ies), and such Interconnection Agreement was assigned, then the Wholesale Market Participant may, without consent of the Transmission Provider or the Transmission Owner, assign this WMPA to such Project Finance Entity(ies), provided that such assignment does not alter or diminish Wholesale Market Participant's duties and obligations under this WMPA. If Wholesale Market Participant provides the Transmission Owner and Transmission Provider with notice of an assignment to such Project Finance Entity(ies) and identifies such Project Finance Entity(ies) as a contact for notice of Breach consistent with section 15.3 of Attachment O, Appendix 2 in Part VI of the Tariff, the Transmission Provider or Transmission Owner shall provide notice and reasonable opportunity for such Project Finance Entity(ies) to cure any Breach under this WMPA in accordance with this WMPA. Transmission Provider or Transmission Owner shall, if requested by such Project Finance Entity(ies), provide such customary and reasonable documents, including consents to assignment, as may be reasonably requested with respect to the assignment and status of this WMPA, provided that such documents do not alter or diminish the rights of the Transmission Provider or Transmission Owner under this WMPA, except with respect to providing notice of Breach consistent with section 15.3 of Attachment O, Appendix 2 in Part VI of the Tariff, to such Project Finance Entity(ies). Upon presentation of the Transmission Provider and/or Transmission Owner's invoice therefor, Wholesale Market Participant shall pay the Transmission Provider and/or the Transmission Owner's reasonable documented cost of providing such documents and certificates as requested by such Project Finance Entity(ies). Any assignment described herein shall not relieve or discharge the Wholesale Market Participant from any of its obligations hereunder absent the written consent of the Transmission Owner and Transmission Provider.

#### **2.6.3 Successors and Assigns:**

This WMPA and all of its provisions are binding upon, and inure to the benefit of, the Parties and their respective successors and permitted assigns.

### **ARTICLE 3 – Responsibility for Network or Local Upgrades**

- 3.0 Security for Network or Local Upgrades.** Consistent with Section 212.4 in Part VI of the Tariff, Wholesale Market Participant, on or before the effective date of this WMPA, shall provide the Transmission Provider (for the benefit of the Transmission Owner) with a letter of credit from an agreed provider or other form of security reasonably acceptable to the Transmission Provider and that names the Transmission Provider as beneficiary (“Security”) in the amount of \$0. This amount represents the sum of the estimated Costs, determined consistent with Section 217 in Part VI of the Tariff, of (i) the Local Upgrades and/or Network Upgrades described in Section 3.4 of this WMPA less any Costs already paid by the Wholesale Market Participant. Should Wholesale Market Participant fail to provide Security in the amount or form required in the first sentence of this Section, this WMPA shall be terminated. Wholesale Market Participant acknowledges that its ultimate cost responsibility consistent with Section 217 in Part VI of the Tariff will be based upon the actual Costs of the facilities described in the Specifications to this WMPA, whether greater or lesser than the amount of the Security provided under this Section.
- 3.1 Project Specific Milestones.** During the term of this WMPA, Wholesale Market Participant shall ensure that it meets each of the following milestones:
- 3.1.1 Substantial Site work completed.** On or before October 31, 2023, Wholesale Market Participant must demonstrate completion of at least 20% of project site construction.
- 3.1.2 Commercial Operation.** (i) On or before November 29, 2024, Wholesale Market Participant must demonstrate commercial operation of all generating units; (ii) On or before November 29, 2024, Wholesale Market Participant must demonstrate commercial sale or use of energy and, if applicable obtain capacity qualification consistent with the requirements of the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region.
- 3.1.3 Documentation.** Within one (1) month following commercial operation of generating unit(s), Wholesale Market Participant must provide certified documentation demonstrating that “as-built” Participant Facility are consistent with applicable PJM studies and agreements. Wholesale Market Participant must also provide PJM with “as-built” electrical modeling data or confirm that previously submitted data remains valid.
- 3.1.4 Interconnection Agreement.** On or before October 31, 2021, Wholesale Market Participant must enter into an Interconnection Agreement with the Transmission Owner in order to effectuate the WMPA.

Wholesale Market Participant shall demonstrate the occurrence of each of the foregoing milestones to Transmission Provider's reasonable satisfaction. Transmission Provider may reasonably extend any such milestone dates, in the event of delays that Wholesale Market Participant (i) did not cause and (ii) could not have remedied through the exercise of due diligence.

If (i) the Wholesale Market Participant suspends work pursuant to a suspension provision contained in an interconnection and/or construction agreement with the Transmission Owner or (ii) the Transmission Owner extends the date by which Wholesale Market Participant must enter into an interconnection agreement relative to this WMPA, and (iii) the Wholesale Market Participant has not made a wholesale sale under this WMPA, the Wholesale Market Participant may suspend this WMPA by notifying the Transmission Provider and the Transmission Owner in writing that it wishes to suspend this WMPA, with the condition that, notwithstanding such suspension, the Transmission System shall be left in a safe and reliable condition in accordance with Good Utility Practice and Transmission Provider's safety and reliability criteria. Wholesale Market Participant's notice of suspension shall include an estimated duration of the suspension period and other information related to the suspension. Pursuant to this section 3.1, Wholesale Market Participant may request one or more suspensions of work under this WMPA for a cumulative period of up to a maximum of three years. If, however, the suspension will result in a Material Modification as defined in Part I, Section 1.18A.02 of the Tariff, then such suspension period shall be no greater than one (1) year. If the Wholesale Market Participant suspends this WMPA pursuant to this Section 3.1 and has not provided written notice that it will exit such suspension on or before the expiration of the suspension period described herein, this WMPA shall be deemed terminated as of the end of such suspension period. The suspension time shall begin on the date the suspension is requested or on the date of the Wholesale Market Participant's written notice of suspension to Transmission Provider, if no effective date was specified. All milestone dates stated in this Section 3.1 shall be deemed to be extended coextensively with any suspension period permitted pursuant to this provision.

IN WITNESS WHEREOF, Transmission Provider, Wholesale Market Participant and Transmission Owner have caused this WMPA to be executed by their respective authorized officials. By each individual signing below, each represents to the other that they are duly authorized to sign on behalf of their company and have the actual and/or apparent authority to bind the respective company to this WMPA.

(PJM Queue Position #AF1-021)

Transmission Provider: **PJM Interconnection, L.L.C.**

By: \_\_\_\_\_  
Name Title Date

Printed name of signer: \_\_\_\_\_

Wholesale Market Participant: **Pechin Solar LLC**

By: \_\_\_\_\_  
Name Title Date

Printed name of signer: \_\_\_\_\_

Transmission Owner: **Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)**

By: \_\_\_\_\_  
Name Title Date

Printed name of signer: \_\_\_\_\_

All signature lines intentionally left blank. See Agreement to Amend and Milestone Change Document executed by the Parties on October 6, 2024.

**SPECIFICATIONS FOR  
WHOLESALE MARKET PARTICIPATION AGREEMENT**

**By and Among  
PJM INTERCONNECTION, L.L.C.**

**And  
Pechin Solar LLC**

**And  
Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania  
Electric Company)  
(PJM Queue Position # AF1-021)**

**1.0 Description of generating unit(s)** (the “Participant Facility”) to be used for the provision of wholesale sales into the PJM markets:

a. Name of Participant Facility:

Dunbar Solar Farm

b. Location of Participant Facility:

179 Pechin Road  
Dunbar, PA 15431

c. Size in megawatts of Participant Facility:

Maximum Facility Output of 14 MW

d. Description of the equipment configuration:

A ground-mounted, inverter-based, solar photovoltaic generating facility consisting of solar arrays and step-up transformation with a high-side voltage of 25 kV.

**2.0 Rights for Generation Wholesale Market Participant**

**2.1 Capacity Interconnection Rights:**

Consistent with the applicable terms of the Tariff, the Wholesale Market Participant shall have Capacity Interconnection Rights at the point(s) of interconnection specified in Schedule A of this Wholesale Market Participant Agreement in the amount of 8.4 MW; provided however, nothing in this WMPA provides any rights with regard to the use of distribution facilities.

Pursuant to and subject to the applicable terms of the Tariff, the Wholesale Market Participant shall have Capacity Interconnection Rights at the Point(s) of



Interconnection specified in this Wholesale Market Participation Agreement in the amount of 8.4 MW commencing June 1, 2023. During the time period from the effective date of this WMPA until May 31, 2023 (the “interim time period”), the Wholesale Market Participant may be awarded interim Capacity Interconnection Rights in an amount not to exceed 8.4 MW. The availability and amount of such interim Capacity Interconnection Rights shall be dependent upon completion and results of an interim deliverability study. Any interim Capacity Interconnection Rights awarded during the interim time period shall terminate on May 31, 2023.

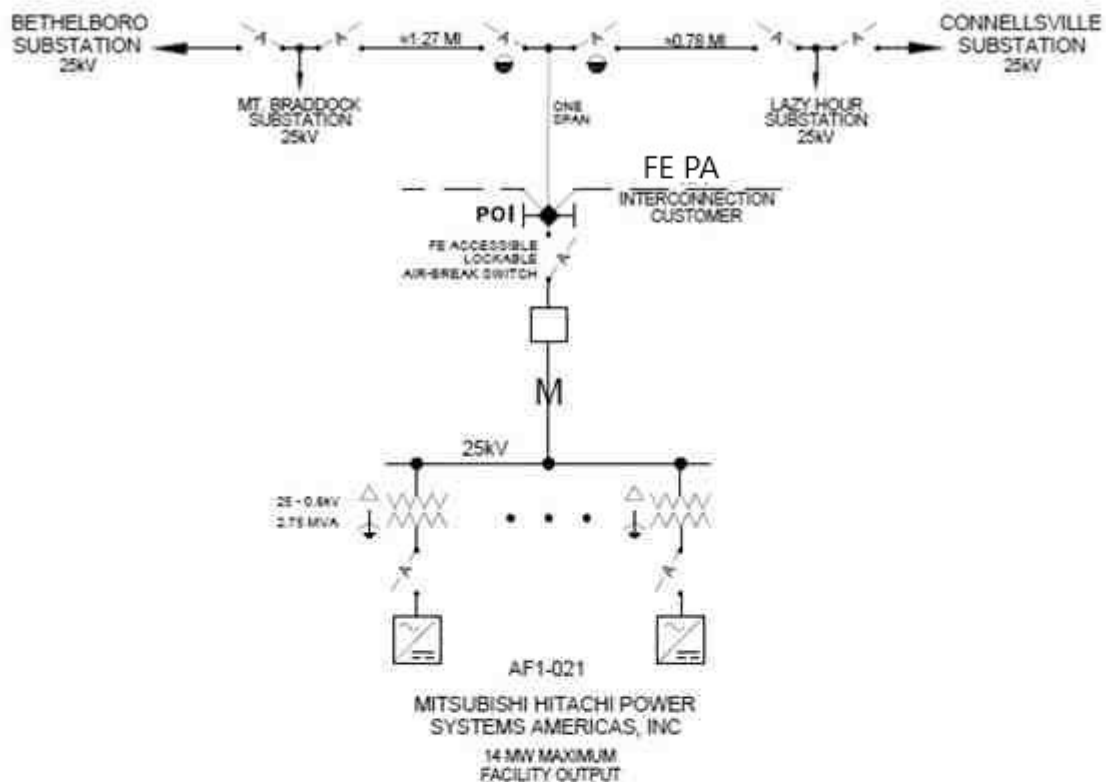
To the extent that any portion of the Participant Facility described in Section 1.0 is not a Capacity Resource with Capacity Interconnection Rights, such portion of the Participant Facility shall be an Energy Resource. Pursuant to this WMPA, the Wholesale Market Participant may sell energy into PJM’s markets in an amount equal to the Participant Facility’s Maximum Facility Output indicated in Section 1.0c of the Specifications for this WMPA. PJM reserves the right to limit injections in the event reliability would be affected by output greater than such quantity.

- 3.0 Ownership and Location of Metering Equipment.** The metering equipment to be constructed, the capability of the metering equipment to be constructed, and the ownership thereof, as required for the Wholesale Transactions shall be identified on the attached Schedule B to this WMPA, and provided consistent with the PJM manuals.

**SCHEDULES:**

- **SCHEDULE A - SINGLE-LINE DIAGRAM (Showing point of interconnection)**
- **SCHEDULE B - LIST OF METERING EQUIPMENT**
- **SCHEDULE C - LIST OF LOCAL/NETWORK UPGRADES**
- **SCHEDULE D - APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS**
- **SCHEDULE E - WHOLESALE MARKET PARTICIPATION AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS**
- **SCHEDULE F – SCHEDULE OF NON-STANDARD TERMS & CONDITIONS**

**SCHEDULE A**  
**SINGLE-LINE DIAGRAM**



◆ = POI (POINT OF INTERCONNECTION) LOCATED AT INTERCONNECTION CUSTOMER'S DEAD-END STRUCTURE WHERE FE PA OWNED 25kV TRANSMISSION LINE TERMINATES

M = REVENUE METERING FOR INTERCONNECTION CUSTOMER IS OWNED, OPERATED, AND MAINTAINED BY FE PA

● = SCADA CONTROL

<b>FirstEnergy</b> Energy Delivery Technical Services		TITLE MITSUBISHI HITACHI POWER SYSTEMS AMERICAS INC, INTERCONNECTION TO THE FE PA OWNED BETHELBORO-CONNELLSVILLE 25kV LINE	
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## **SCHEDULE B**

### **LIST OF METERING EQUIPMENT**

Wholesale Market Participant's metering and telemetry equipment shall comply with the requirements specified in PJM Manuals M-01 and M-14D.

**SCHEDULE C**

**LIST OF LOCAL/NETWORK UPGRADES**

Not Required.

**SCHEDULE D**

**APPLICABLE TECHNICAL REQUIREMENTS AND STANDARDS**

Not Required.

## **SCHEDULE E**

### **WHOLESALE MARKET PARTICIPATION AGREEMENT TO CONFORM WITH IRS SAFE HARBOR PROVISIONS FOR NON-TAXABLE STATUS**

As provided in Section 24.1 in Attachment O, Appendix 2 in Part VI of the Tariff and subject to the requirements thereof, Wholesale Market Participant represents that it meets all qualifications and requirements as set forth in Section 118(a) and 118(b) of the Internal Revenue Code of 1986, as amended and interpreted by Notice 2016-36, 2016-25 I.R.B. (6/20/2016) (the “IRS Notice”). Wholesale Market Participant agrees to conform with all requirements of the safe harbor provisions specified in the IRS Notice, as they may be amended, as required to confer non-taxable status on some or all of the transfer of property, including money, by Wholesale Market Participant to Transmission Owner with respect to the payment of the Costs of construction and installation of the Transmission Owner Interconnection Facilities specified in this WMPA.

Nothing in Wholesale Market Participant’s agreement pursuant to this Schedule E shall change the indemnification obligations under Section 24.2 in Attachment O, Appendix 2 in Part VI of the Tariff.



**SCHEDULE F**

**SCHEDULE OF NON-STANDARD TERMS & CONDITIONS**

Not Required.

# **ATTACHMENT C**

**Executed Agreement to Amend  
and Milestone Change Document**

**AGREEMENT TO AMEND**  
**By and Among**  
**PJM Interconnection, L.L.C.**  
**And**  
**Pechin Solar LLC**  
**And**  
**Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)**  
**(PJM Queue Position #AF1-021)**

This AGREEMENT TO AMEND (“Agreement to Amend”) is entered into by and among PJM Interconnection, L.L.C. (“PJM” or “Transmission Provider”), Pechin Solar LLC (“Wholesale Market Participant”), and Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company) (“Transmission Owner”) (each, individually a “Party,” and collectively, the “Parties”).

**RECITALS**

WHEREAS, PJM, Wholesale Market Participant and Transmission Owner are parties to the following service agreement (the “Service Agreement”), filed with and accepted by the Federal Energy Regulatory Commission in Docket No. ER24-621-001, designated as follows:

Type of Service Agreement	Service Agreement Number	Parties to the Agreement	Effective Date
Wholesale Market Participation Agreement (“WMPA”)	5729	PJM, Pechin Solar LLC, and Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)	January 1, 2024

WHEREAS, Section 2.4 of the Wholesale Market Participation Agreement provides that the Service Agreement, or any part thereof, may not be amended, modified, or waived other than by a written document signed by all parties to the Service Agreement; and

WHEREAS, by this Agreement to Amend, the Parties intend to amend the Service Agreement to reflect and describe the changes listed in Appendix A hereto.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, and intending to be legally bound, the Parties hereto, hereby agree as follows:

1. Capitalized Terms. Capitalized terms not otherwise defined herein shall have the meaning assigned to such terms in the Service Agreement.
2. Consent to Amendment(s). The Parties hereby agree to amend the aforementioned Service Agreement(s) by making the changes listed in Appendix A hereto. The Parties authorize PJM to file the amended Service Agreement with the Commission without the

necessity of additional signatures from Wholesale Market Participant and Transmission Owner.

3. Counterparts. This Agreement to Amend may be executed in one or more counterparts, each of which when so executed and delivered shall be an original but all of which shall together constitute one and the same instrument.

Except as set forth in this Agreement to Amend, the Service Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Agreement to Amend and the Service Agreement or any earlier amendment(s), the terms of this Agreement to Amend will prevail.

IN WITNESS WHEREOF, the Parties hereto have executed this Agreement to Amend as of the date of the latest signature, and the amendments to the foregoing Service Agreement shall become effective on the date established by the Commission. By each individual signing below, each represents to the others that they are duly authorized to sign on behalf of that company and have the actual and/or apparent authority to bind the respective company to this Agreement to Amend.

(PJM Queue Position #AF1-022)

**Transmission Provider: PJM Interconnection, L.L.C.**

By: Jason Shoemaker                      Manager, Interconnection Projects                      Oct 6, 2024  
Name    Title    Date

Printed name of signer: Jason Shoemaker

**Wholesale Market Participant: Pechin Solar LLC**

By: William Miller                      Chief Financial Officer                      Sep 30, 2024  
Name    Title    Date

Printed name of signer: William Miller

**Transmission Owner: Keystone Appalachian Transmission Company (as agent for First Energy Pennsylvania Electric Company)**

By: Greg Hussing                      Dir FERC & RTO Support                      Oct 3, 2024  
Name    Title    Date

Printed name of signer: Greg Hussing

**APPENDIX A**

<b>Section Changed</b>	<b>Changed From</b>	<b>Changed To</b>	<b>Explanation</b>
WMPA, introductory paragraph	This WMPA amends the Wholesale Market Participation Agreement among the Parties, Service Agreement No. 5729 effective July 9, 2020, filed with and accepted by the Federal Energy Regulatory Commission “FERC” or “Commission” in Docket No. ER21-1174-000. This WMPA amends the WMPA among PJM, Pechin Solar, and West Penn Power Company, Service Agreement No. 5729, amendments effective November 20, 2023, filed with the Federal Energy Regulatory Commission in Docket No. ER23-2901-000.	This WMPA amends the Wholesale Market Participation Agreement among the Parties, Service Agreement No. 5729, accepted for filing by the Commission in Docket No. ER21-1174-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER23-2901-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER24-621-001, and effective January 1, 2024.	A sentence is updated to explain that this is an amended WMPA.
WMPA, section 2.0 Notices	<p>Transmission Owner:  Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)  76 South Main Street, 10<sup>th</sup> Floor  Akron, OH 44308  Attn: Manager, FERC &amp; Wholesale Connection Support  <a href="mailto:mthorn@firstenergycorp.com">mthorn@firstenergycorp.com</a> (330) 384-3889</p> <p>With copies to:  FirstEnergy Service Company  Legal Department  76 South Main Street, 15<sup>th</sup> Floor  Akron, OH 44308</p>	<p>Transmission Owner:  Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)  76 South Main Street  Akron, OH 44308  Attn: Scott Perry, or successor, FERC &amp; Wholesale Connection Support Manager  Email: <a href="mailto:sepperry@firstenergycorp.com">sepperry@firstenergycorp.com</a>  Phone: (330) 384-2587  Fax: (330) 761-4338</p> <p>with copies to:  Legal Department  FirstEnergy Service Company  76 South Main Street</p>	Updated contact information for Transmission Owner.

	Attn: Attorney for FERC & Wholesale Connection ajadue@firstenergycorp.com (330) 384-5947	Akron, OH 44308 Attn: Attorney for FERC & Wholesale Connection Support Email: <a href="mailto:djacobson@firstenergycorp.com">djacobson@firstenergycorp.com</a> CC: <a href="mailto:ltynes_kunzo@firstenergycorp.com">ltynes_kunzo@firstenergycorp.com</a> Phone: (330) 384-5947 Fax: (330) 761-4338	
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## MILESTONE CHANGE DOCUMENT

### **PARTIES**

<b>Party Type</b>	<b>Company Name</b>
Transmission Provider	PJM Interconnection, L.L.C.

<b>Party Type</b>	<b>Company Name</b>
Wholesale Market Participant	Pechin Solar LLC

<b>Party Type</b>	<b>Company Name</b>
Transmission Owner	Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)

### **QUEUE POSITION**

<b>Queue Type</b>	<b>Number</b>
PJM Queue Position	AF1-021

The Service Agreement designated below has been entered into by and among the Parties listed above, and if a Docket No. is not listed below, the Service Agreement is conforming and reported in PJM's Electric Quarterly Reports.

<b>Type of Service Agreement ("SA")</b>	<b>SA No.</b>	<b>Parties to the Agreement (in addition to PJM)</b>	<b>Effective Date</b>	<b>Docket No.</b>
Wholesale Market Participation Agreement	5729	Pechin Solar LLC	January 1, 2024	ER24-621-001
		Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)		

Section 3.1 of the Service Agreement listed above contains project specific milestones. Section 3.1 of the Service Agreement and Tariff, Part VI, section 212.5 further provide that the Transmission Provider may reasonably extend milestone dates in the event of delays that the Interconnection Customer (i) did not cause and (ii) could not have remedied through the exercise of due diligence.

The Wholesale Market Participant has encountered a delay in schedule as a result of Transmission Owner's delay of outages. Pursuant to Section 3.1 of the Service Agreement and the authority granted therein, PJM has reasonably determined that the Wholesale Market Participant did not



cause such delay and could not remedy such delay through the exercise of due diligence. Accordingly, PJM is extending the project specific milestones for the above-referenced Service Agreement as set forth below:

Section Changed	Changed From	Changed To
Introductory paragraph	This WMPA amends the Wholesale Market Participation Agreement among the Parties, Service Agreement No. 5729 effective July 9, 2020, filed with and accepted by the Federal Energy Regulatory Commission “FERC” or “Commission” in Docket No. ER21-1174-000. This WMPA amends the WMPA among PJM, Pechin Solar, and West Penn Power Company, Service Agreement No. 5729, amendments effective November 20, 2023, filed with the Federal Energy Regulatory Commission in Docket No. ER23-2901-000.	This WMPA amends the Wholesale Market Participation Agreement among the Parties, Service Agreement No. 5729, accepted for filing by the Commission in Docket No. ER21-1174-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER23-2901-000; as amended by the Amended Wholesale Market Participation Agreement among the Parties, accepted for filing by the Commission in Docket No. ER24-621-001, and effective January 1, 2024.
3.1.2	Commercial Operation. (i) On or before March 31, 2024, Wholesale Market Participant must demonstrate commercial operation of all generating units; (ii) On or before March 31, 2024, Wholesale Market Participant must demonstrate commercial sale or use of energy and, if applicable obtain capacity qualification consistent with the requirements of the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region.	Commercial Operation. (i) On or before November 29, 2024, Wholesale Market Participant must demonstrate commercial operation of all generating units; (ii) On or before November 29, 2024, Wholesale Market Participant must demonstrate commercial sale or use of energy and, if applicable obtain capacity qualification consistent with the requirements of the Reliability Assurance Agreement Among Load Serving Entities in the PJM Region.

Section 2.4 of the Service Agreement provides that the Service Agreement, or any part thereof, may not be amended, modified, or waived other than by a written document signed by all parties to the Service Agreement. Accordingly, the Parties understand that PJM will utilize this Milestone Change Document to modify the Service Agreement. The Parties authorize PJM to file the amended Service Agreement, and the Milestone Change Document, as needed, to reflect the above milestone date changes with the Federal Energy Regulatory Commission (Commission) without the necessity of additional signatures from the Parties.

Except as set forth in this Milestone Change Document, the Service Agreement is unaffected and shall continue in full force and effect in accordance with its terms. If there is conflict between this Milestone Change Document and the Service Agreement, the terms of this Milestone Change Document will prevail.

IN WITNESS WHEREOF, the Parties hereto have executed this Milestone Change Document as of the date of the latest signature, and the amendments to the foregoing Service Agreement(s) shall become effective on the date established by the Commission. By each individual signing below, each represents to the others that they are duly authorized to sign on behalf of that company and have the actual and/or apparent authority to bind the respective company to this Agreement to Amend.

Party Type		Company Name
<b>Transmission Provider</b>		<b>PJM Interconnection, L.L.C.</b>
<b>Signature</b>	<i>Jason Shoemaker</i>	
<b>Name</b>	Jason Shoemaker	
<b>Title</b>	Manager, Interconnection Projects	
<b>Date</b>	Oct 6, 2024	

Party Type		Company Name
<b>Wholesale Market Participant</b>		<b>Pechin Solar LLC</b>
<b>Signature</b>	<i>William Miller</i>	
<b>Name</b>	William Miller	
<b>Title</b>	Chief Financial Officer	
<b>Date</b>	Sep 30, 2024	

Party Type		Company Name
<b>Transmission Owner</b>		<b>Keystone Appalachian Transmission Company (as agent for FirstEnergy Pennsylvania Electric Company)</b>
<b>Signature</b>	<i>Greg Hussing</i>	
<b>Name</b>	Greg Hussing	
<b>Title</b>	Dir FERC & RTO Support	
<b>Date</b>	Oct 3, 2024	