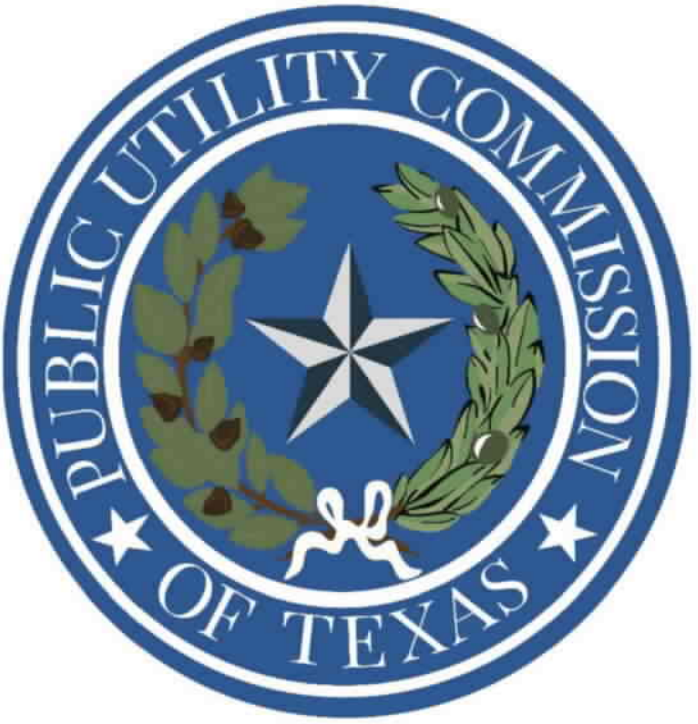

Filing Receipt

Filing Date - 2025-01-08 02:41:37 PM

Control Number - 35077

Item Number - 2039

Thomas J. Yamin, P.E.
Director
Regulatory Transmission and Planning

January 8, 2025

Filing Clerk
Public Utility Commission of Texas
1701 N. Congress Avenue
P.O. Box 13326
Austin, TX 78711-3326

RE: Subject: Project No. 35077–Oncor Electric Delivery Company's Transmission Contract Filing Pursuant to Subst. Rule 25.195(h)

Find attached the First Amendment to the Standard Generation Interconnection Agreement between Oncor Electric Delivery Company LLC and Pine Forest Hybrid I, LLC (Pine Forest BESS) (22INR0526), dated December 23, 2024, for filing at the Public Utility Commission pursuant to Substantive Rule 25.195(h).

Oncor Electric Delivery has redacted certain station location information, which contains CEII, located in Exhibit B.

Sincerely,

Thomas J. Yamin

Thomas J. Yamin, P.E.
Director

1616 Woodall Rodgers Freeway, Dallas, Texas 75202
214.486.3512. | Oncor.com

AMENDMENT NO. 1

ERCOT STANDARD GENERATION INTERCONNECTION AGREEMENT
GIR 22INR0526 – Pine Forest Hybrid I, LLC
(Pine Forest BESS)

This Amendment No. 1 ("Amendment") to the ERCOT Standard Generation Interconnection Agreement, dated April 10, 2024 ("Agreement") is made and entered into this 23 day of December, 2024 between Oncor Electric Delivery Company LLC, a Delaware limited liability company ("Transmission Service Provider" or "TSP") and Pine Forest Hybrid I, LLC ("Generator"), collectively referred to herein as the "Parties". In consideration of the mutual promises and undertakings set forth herein, the Parties hereby agree to amend the Agreement as follows:

1. Exhibit "B", Time Schedule, to the Agreement is deleted in its entirety and replaced with the Exhibit "B", Time Schedule, attached hereto and made a part hereof.

2. Paragraphs 4 and 5 of Exhibit "C" to the Agreement are hereby deleted in their entirety and replaced with Exhibit "C" paragraphs 4 and 5 as follows:

    4. Number and size of Generating Units:

        - BESS – One hundred ten (110) inverters rated at 2.4 MVA each with a total gross capacity of 264.0 MVA. The plant will be dispatched at 202.50/-197.00 MW measured at the generator terminals (200.74 MW measured at 34.5 kV).

        The Parties will amend this Exhibit "C" as necessary to reflect any changes Generator makes to the number and size of generating units.

    5. Type of Generating Unit:

        - BESS – Tesla Megapack 2XL X2

        The Parties will amend this Exhibit "C" as necessary to reflect any changes Generator makes to the manufacturer, model, or type of generating units

3. Paragraphs 7 and 8 of Exhibit "C", Interconnection Details, to the Agreement is deleted in its entirety and replaced with the Paragraphs 7 and 8 of Exhibit "C", Interconnection Details, attached hereto and made a part hereof.

4. Attachment 1 to Exhibit "C", One Line Diagram, Stouts Creek Switch and Co-Tenant Switchyard, to the Agreement is deleted in its entirety and replaced with Attachment 1 to Exhibit "C", One Line Diagram, Stouts Creek Switch and Co-Tenant Switchyard, attached hereto and made a part hereof.

5. Except as otherwise expressly provided for herein, the Agreement shall continue in full force and effect in accordance with its terms.

IN WITNESS WHEREOF, the Parties may cause this Amendment to be executed in several counterparts, each of which shall be deemed an original but all shall constitute one and the same instrument.

ONCOR ELECTRIC DELIVERY COMPANY LLC

BY: DocuSigned by: Robert Holt 1A1F308A21AA462...

NAME: Robert Holt

TITLE: Director, Transmission Services

DATE: 12/23/2024 | 5:56:13 PM PST

PINE FOREST HYBRID I LLC

BY: 

NAME: Craig Cornelius

TITLE: President

DATE: December 23, 2024

Exhibit "B"
Time Schedule

Interconnection Option chosen by Generator (check one): X Section 4.1.A. or ___ Section 4.1.B

If Section 4.1.B is chosen by Generator, the In-Service Date(s) was determined by (check one): (1) N/A good faith negotiations, or (2) N/A Designated by Generator upon failure to agree.

Date by which Generator provided security, as specified in the Discretionary Service Agreement between the Parties dated December 19, 2023 ("DSA"), so that TSP may maintain schedule to meet the In-Service Date: **January 10, 2024**

Date by which Generator was required to provide notice to proceed with design, and procurement and provided security, as specified in Section 4.2, so that TSP may maintain schedule to meet the In-Service Date: **April 17, 2024**

Date by which Generator was required to provide notice to commence construction and provide security, as specified in Section 4.3, so that TSP may maintain schedule to meet the In-Service Date: **May 8, 2024**

In - Service Date(s): **May 8, 2025**

Back feed to Pine Forest Date: **May 15, 2025**

Scheduled Trial Operation Date: **July 8, 2025**

Scheduled Commercial Operation Date: **October 29, 2025**

Date by which TSP will submit the Metering Design Proposal to ERCOT: **November 8, 2024**

Date by which Generator was required to provide Information required for sizing EPS Metering CT's: **February 8, 2024**

Date by which Generator was required to provide Information, including the use of NGR's, required for sizing the Wholesale Storage Load ("WSL") EPS Metering CT's and PT's: **April 8, 2024**

Date by which TSP was required to provide to Generator information for the WSL EPS Metering typical layout and installation details including CT and PT outlines: **April 8, 2024**

Date by which Generator was required to provide to TSP complete One Line Diagrams to show in detail the BESS system from the Point of Interconnection and EPS WSL Metering Point through the batteries to ground: **July 8, 2024**

Date by which Generator was required to provide drawings showing in detail the proposed location and installation of TSP's WSL EPS Metering equipment: **August 8, 2024**

Date by which TSP will provide the Generator the WSL EPS Metering instrument transformers for installation in Generator Collector Station: **February 7, 2025**

Date by which Generator will complete the installation of WSL EPS Metering instrument transformers for TSP termination and testing: **March 7, 2025**

Date by which Generator was required to provide its proposed protection system design to TSP in accordance with Attachment 3 to Exhibit "C": **November 8, 2024**

Date by which Generator will provide its proposed protection system device settings and other information to TSP in accordance with Attachment 3 to Exhibit "C": **March 7, 2025**

Date by which Generator was required to provide its proposed names of its equipment, as referenced in Exhibit "C", to TSP: **September 6, 2024**

Date by which Co-Tenant Generators must have removed or relocated any existing Generator or third party underground and aboveground facilities from the property where the Stouts Creek Switch will be constructed to a location acceptable to TSP and have caused any existing Generator or third party easements on such property to be terminated, as referenced in Exhibit "C": **August 4, 2024**

Date by which Generator was required to provide to TSP site drawings showing the proposed routes and locations of all generating units, transmission lines, distribution lines, and roads planned to be constructed by Generator: **July 8, 2024**

Date by which Generator was required to provide to TSP the Latitude and Longitude of all BESS generating units: **November 8, 2024**

Date by which Generator will have in place the communication facilities specified in Exhibit C: **March 27, 2025**

Date by which Generator was required to provide its design of the facilities and operating scheme to comply with the reactive power requirements specified in Exhibit C, when the plant is neither charging nor discharging: **November 8, 2024**

Date by which Generator was required to provide its design of the facilities to comply with the unit reactive power requirements specified in Exhibit C, when the plant is either charging or discharging: **November 8, 2024**

Date by which Co-Tenant Generator submitted the grading and drainage design for Stouts Creek and the All-Weather Road to TSP for review and approval pursuant to Exhibit C: **February 5, 2024**

Date by which Co-Tenant Generators were required to complete the grading and drainage design for Stouts Creek Switch and the All-Weather Road pursuant to Exhibit C, so that TSP may maintain schedule to meet the In-Service Date: **June 7, 2024**

Date by which Co-Tenant Generators were required to complete the Stouts Creek and All-Weather Road grading, and provide access for TSP inspection, pursuant to Exhibit C: **August 4, 2024**

Date by which Co-Tenant Generators were required to complete any final adjustments to the Stouts Creek and All-Weather Road grading, based on TSP inspection, pursuant to Exhibit C: **September 6, 2024**

Date by which Co-Tenant Generators and/or County were required to complete improvements to [redacted], pursuant to Exhibit C: **August 4, 2024**

Date by which TSP assumed ownership or possession of the easements, in accordance with Exhibit "C", for property for and access to the TIF, so that TSP may maintain schedule to meet the In-Service Date: **August 22, 2020**

Date by which Co-Tenant Generators will have the 4 hole pads connected to the Co-Tenant Switchyard bus at the Point of Interconnection for TSP's jumper terminations: **March 13, 2025**

Due to the nature of the subject of this Agreement, the Parties may mutually agree to change the dates and times of this Exhibit "B".

Exhibit "C"
Interconnection Details

7. Generator Interconnection Facilities: The GIF shall include, but not limited to, the following facilities. (See the attached one-line diagram)

   Generator Switchyard:

   The Generator Switchyard" will include, but not be limited to, the following switchyard facilities.

   (1 ea.) Circuit breaker, 345 kV with two sets of 3000/5, C800 multi-ratio CT's with a TRF = 2.0 for line current differential relaying
   (1 lot) Switches, air break, 345 kV, gang operated, 3 phase, with provisions for TSP's pad lock
   (1 lot) CCVT, 345 kV, dual secondary windings as required for Generator metering and relaying
   (1 ea.) Main Transformer, 345/34.5/13.8 kV
   (1 lot) Switches, air break, 34.5 kV, gang operated, 3 phase
   (1 lot) Protective relaying equipment
   (1 ea.) Supervisory equipment, SCADA RTU, complete with Generator-provided dedicated data communication circuit back to TSP's Central Control Center
   (1 ea.) Fault Recording equipment (as required by ERCOT)
   (1 ea.) Phasor Measurement Unit (PMU) (as required by ERCOT)
   (1 lot) Multi-fiber, fiber optic cable with 1300 nm single-mode fibers, 48 fibers minimum (24 fibers per tube), to be used for primary and redundant line relaying and optional SCADA communications for EPS metering information to Generator. Generator will route its fiber optic cable in underground conduit to a TSP owned splice box on the TSP side of the common fence between Stouts Creek Switch and the Co-Tenant Switchyard. TSP will route its fiber optic cable to the splice box and be responsible for splicing of Generator's fibers to TSP's fibers.
   (1 lot) Associated structures, bus work, conductor, connectors, grounding, conduit, control cable, fiber, foundation work, perimeter fencing, grading/dirt work and any appurtenances necessary for construction and operation of the Co-Tenant Switchyard.
   (1 lot) Ground connections to Stouts Creek Switch ground grid

   All Weather Road – Co-Tenant Generators will construct and maintain an all-weather road acceptable to TSP for TSP's ingress and egress to and from Stouts Creek Switch from CR 2346.

   Co-Tenant Facilities: The jointly-owned Co-Tenant Facilities will include, but not be limited to, the following Switchyard Facilities.

   (1 ea.) Circuit breaker, 345 kV with two sets of 3000/5, C800 multi-ratio CT's with a TRF = 2.0 for line current differential relaying
   (1 ea.) Switches, air break, 345 kV, gang operated, 3 phase, with provisions for TSP's pad lock
   (1 lot) Associated structures, bus work, conductor, connectors, grounding, conduit, control cable, fiber, foundation work, and any appurtenances necessary for construction and operation of the Co-Tenant Facilities.

   The above lists are not intended to be complete lists of all facilities that are part of the GIF.

8. Transmission Service Provider Interconnection Facilities: The TIF shall include the following facilities. (See the attached one-line diagram)

Allen Switch to Monticello Switch 345 kV Transmission Line

To provide service to the Generator's generating facility it will be necessary to modify one double circuit 345 kV transmission line. The work required to loop one circuit of the double circuit Allen Switch – Monticello Switch 345 kV line into Stouts Creek Switch includes adding two new single circuit turning structures and terminating new conductors and static wires on the new turning structures. This work will also include installing two (2) spans of single circuit 795 kcmil ASCR conductors, and two (2) spans of 7/16" EHS static wire and terminating them on the two new TSP owned dead-end structures inside Stouts Creek Switch.

Allen Switch Changes

The system improvements at Allen Switch require adding transfer trip carrier equipment to the existing Monticello Switch line terminal. Project includes re-tuning the existing line tuner and line trap, and installing a transfer trip transceiver panel.

Equipment:

(1 ea.) Line tuner
(1 ea.) Line trap tuning pack
(1 ea.) Transfer Trip Transmitter and Receiver Single Channel relay panel

Monticello Switch Changes

The system improvements at Monticello Switch require modifying the existing carrier frequencies for the line to Stouts Creek Switch. This project includes re-tuning the existing line trap, and line tuner.

Stouts Creek Switch

Stouts Creek Switch shall consist of two 345 kV sources and provide Generator with one interconnection point from a 345 kV three breaker, ring bus. The following list of major switchyard equipment will be necessary for Stouts Creek Switch.

(3 ea.) Circuit breaker, 362 kV, 3200 A, 50 kA
(6 ea.) Switch, air break, 362 kV, 3200 A, gang operated, 3 phase
(3 ea.) Switch, air break, 362 kV, 3200 A, gang operated, 3 phase, with 3 phase ground switch
(3 ea.) Metering Current Transformers, 345 kV
(3 ea.) CCVT's, 345 kV, dual secondary windings for metering and relaying
(6 ea.) CCVT's, 345 kV, dual secondary windings for relaying, and with carrier coupling
(2 ea.) Line trap, 345 kV, 3200 A
(2 ea.) Line tuner
(1 ea.) SSVT, 345 kV, station service transformer
(9 ea.) Surge arresters, 276 kV
(1 lot) All galvanized steel structures, including deadends, switch stands, metering structures, surge arrester supports, CCVT supports, line trap supports, static mast, and bus supports necessary for construction and operation of the Stouts Creek Switch facilities
(1 ea.) Control house w/2-125 VDC battery sets and associated indoor accessories
(1 lot) Emergency switchyard generator and associated propane storage facilities

(1 lot) Associated buswork, conductor, connectors, grounding, conduit, control cable, foundation work, perimeter fencing, grading/dirt work and any appurtenances necessary for construction and operation of the Stouts Creek Switch facilities
(1 lot) Ground connections to Co-Tenant Switchyard ground grid
(1 ea.) Generator line, line current differential (LCD) relay panel
(1 ea.) Allen Switch line, directional comparison blocking (DCB) over carrier relay panel
(1 ea.) Monticello Switch line, DCB over carrier relay panel
(1 ea.) Allen Switch line, Transfer Trip Transmitter & Receiver, Single Channel UPLC panel
(1 ea.) Monticello Switch line, Transfer Trip Transmitter & Receiver, Dual Channel UPLC panel
(1 ea.) Carrier Tester, DC Alarms w/Clock and 2 communications processor panel
(1 ea.) Digital Fault Recorder (DFR)
(1 ea.) Supervisory equipment, SCADA RTU
(1 ea.) Metering panel with totalizing equipment
(1 lot) ADSS fiber-optic cable with 1300 nm single-mode fibers, 48 fibers minimum (24 fibers per tube), to be used for primary and redundant line relaying and optional supervisory control and data acquisition ("SCADA") communications for EPS metering information to Generator, in underground conduit between the TSP control house in Stouts Creek Switch and a TSP owned splice box on the TSP side of the common fence between Stout Creek Switch and the Co-Tenant Switchyard. Generator will route its fiber optic cable to the TSP splice box and TSP will be responsible for splicing of Generator fibers to TSP fibers and the fiber testing.

Wholesale Storage Load ("WSL") Metering Facilities

The following equipment will be furnished and installed by TSP in TSP's Stouts Creek Switch near the common fence between Stouts Creek Switch and the Co-Tenant Switchyard

(1 ea.) Metering cabinet mounting structure for WSL Metering
(1 ea.) Metering cabinet with meters for WSL Metering
(1 ea.) Communications cabinet
(1 lot) Multi-fiber fiber optic cabling from the TSP Metering Cabinet to the Stouts Creek Switch control house.

The following equipment will be furnished by TSP and installed by Generator in the Generator Switchyard for BUS #1 BESS WSL

(3 ea.) Metering PT's, 34.5 kV
(3 ea.) Metering CT's, 34.5 kV

The following equipment will be furnished and installed by Generator in the Generator Switchyard for BUS #1 BESS WSL

(1 ea.) Metering stand for TSP supplied metering PT's, and metering CT's. Stand to include Generator supplied fused cutouts for protection of TSP provided metering PT's.
(1 ea.) Junction box. Box to be lockable type and include two (2) CT shorting blocks and one (1) PT fuse block. Junction box to be locked with TSP lock. Location and requirements of junction box to be finalized during detailed design and provided by TSP to Generator.
(1 lot) Wiring and conduit for the metering stand to include:
(1) 4 conductor # 10 from CT's to Junction Box. Terminated by TSP

(1) 4 conductor # 10 from PT's to Junction Box. Terminated by TSP

(1 lot) Wiring and conduit for metering junction box to the TSP metering cabinet (inside Stouts Creek Switch) to include:
(1) 2" Conduit
(1) 4 conductor # 10 for CT's. Terminated by TSP
(1) 4 conductor # 10 for PT's. Terminated by TSP

(1 lot) Wiring and conduit from independent Generator 125 VDC source for the metering cabinet (inside Stouts Creek Switch) to include:
(1) 2 conductor # 10 for power supply to meters. Terminated by TSP

Attachment 1 to Exhibit "C"

ONE LINE DIAGRAM
Stouts Creek Switch and Co-Tenant Switchyard