

May 15, 2024

VIA ELECTRONIC FILING

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

Re: ISO New England Inc. Interconnection Study Metrics First Quarter, 2024 Processing Time Exceedance Report; Docket No. ER19-1951-00_

Dear Acting Secretary Reese:

Pursuant to Rule 1907 of the Federal Energy Regulatory Commission's ("Commission") Rules of Practice and Procedure, ¹ ISO New England Inc. ("ISO-NE" or the "ISO")² submits this transmittal letter and the attached confidential and public versions of its *Interconnection Study Metrics First Quarter*, 2024 Processing Time Exceedance Report (the "Report"). The ISO submits this informational report consistent with the requirements set forth in Order Nos. 845 and 845-A, ³ and Section 3.5.4 of Schedule 22 of the ISO's Open Access Transmission Tariff ("OATT"), which contains the Large Generator Interconnection Procedures ("LGIP").

I. DESCRIPTION OF THE FILING PARTY AND COMMUNICATIONS

The ISO is the private, non-profit entity that serves as the regional transmission organization ("RTO") for New England. The ISO plans and operates the New England bulk power system and administers New England's organized wholesale electricity market pursuant to the ISO Tariff and the Transmission Operating Agreement with the New England Participating

¹ 18 C.F.R. § 385.1907 (2019).

Capitalized terms not otherwise defined herein have the meanings ascribed thereto in the ISO New England Inc. Transmission, Markets and Services Tariff ("Tariff"). Section II of the Tariff contains the ISO's Open Access Transmission Tariff ("OATT").

Reform of Generator Interconnection Procedures and Agreements, Order No. 845, 163 FERC ¶ 61,043 ("Order No. 845"), order on reh'g, 166 FERC ¶ 61,137 (2019) ("Order No. 845-A").

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Transmission Owners. In its capacity as an RTO, the ISO has the responsibility to protect the short-term reliability of the New England Control Area and to operate the system according to reliability standards established by the Northeast Power Coordinating Council ("NPCC") and the North American Electric Reliability Corporation ("NERC"). All correspondences and communications in this proceeding should be addressed to the undersigned as follows:

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II. BACKGROUND

In Order No. 845, among other things, the Commission modified the *pro forma* LGIP to: (1) require transmission providers to report Interconnection Study performance data on their OASIS sites or public websites; and (2) file informational reports with the Commission if the transmission provider exceeds its Interconnection Study deadlines for more than 25 percent of all the studies conducted for any study type for two consecutive quarters. More specifically, Order No. 845 required that transmission providers add to their LGIPs Section 3.5.4, which requires the filing of informational reports with the Commission if the transmission provider exceeds its Interconnection Study deadlines for more than 25 percent of all the studies conducted for any study type for two consecutive calendar quarters. In Order No. 845, the Commission noted that "[a]ny informational reports that transmission providers file at the Commission are for informational purposes and will not be formally noticed nor require additional action by the Commission."

In compliance with Order No. 845, on May 22, 2019, the ISO submitted revisions to Schedule 22 of the OATT to, among other things, add Section 3.5.4 to the LGIP.⁶ The Commission partially accepted the ISO's revisions on March 19, 2020 (subject to further compliance) and Section 3.5.4 became effective as of that date.⁷ Therefore, under Section 3.5.4 of the ISO's LGIP, the ISO must submit an informational report to the Commission describing each study that exceeds its Interconnection Study deadline, the basis for the delay, and any steps taken to remedy the issue and prevent such delays in the future. The informational report must be filed within 45 days of

⁴ See Order No. 845 at P 305.

⁵ Order No. 845 at n. 567.

⁶ ISO New England Inc., et al., Revisions to the Large Generator Interconnection Procedures and Agreement in Schedule 22 of Section II to the ISO New England Inc. Transmission, Markets and Services Tariff in Compliance with FERC Order Nos. 845 and 845-A, Docket No. ER19-1951-000 (filed May 22, 2019).

⁷ ISO New England Inc., et al., 170 FERC ¶ 61,209 (2020).

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the end of the calendar quarter, and the ISO must continue to report the information until it reports four consecutive quarters where the delayed amounts do not exceed 25 percent of all the studies conducted for any study type in two consecutive quarters.

III. DESCRIPTION OF THE REPORT AND REQUEST FOR CONFIDENTIAL TREATMENT

As required under Section 3.5.4 of the LGIP, the Report provides the Commission with a description of the Interconnection Studies that exceeded the best efforts timelines in the quarter, the reasons for the delay, and any steps to remedy the issue and prevent such delays in the future. Specifically, Section 1 of the Report contains a summary of the ISO's interconnection metrics, Section 2 describes the Interconnection Study processing times for each study completed during the quarter, Section 3 describes the Interconnection Study processing times for each study that is not yet completed but that has exceeded best efforts processing time as of April 1, 2024, and Section 4 details the steps that the ISO is taking to remedy study delays going forward.

The ISO requests that the Commission treat the information contained in Section 3 of the un-redacted version of the Report as confidential under Section 388.112(b) of the Commission's regulations. Section 3 of the Report contains detailed information regarding ongoing Interconnection Studies, the release of which could harm or prejudice the competitive position of an Interconnection Customer. The Commission previously acknowledged that such information should be treated as confidential. Specifically, in Order No. 2003, the Commission "emphasize[d] that the Final Rule LGIP requires the Transmission Provider, the Transmission Owner, and such entities' officers, employees, and contractors to maintain proper procedures for Confidential Information provided by an Interconnection Customer related to the Interconnection Request, the disclosure of which could harm or prejudice the Interconnection Customer or its business." The ISO is required to treat such information as confidential under Section 13.1 of Schedule 22 of the OATT consistent with the Commission's directive in Order No. 2003 and files it as such here.

The Commission has previously recognized that, where it has directed that certain information be held as confidential, and Section 388.112(b)(2)(1) of its rules, under which the filing of the confidential information must include a draft Protective Order or Non-Disclosure Agreement, does not apply. However, to the extent necessary, the ISO requests a waiver of the requirement to include a draft Protective Order under Section 388.112(b)(2)(1) of the Commission's regulations. Good cause exists to grant such a waiver given the commercially sensitive nature of certain information contained in Section 3 of the Report, and its release could harm or prejudice the Interconnection Customer or its business.

The confidential version of the report has been marked: "CONTAINS CONFIDENTIAL INFORMATION - DO NOT RELEASE." The ISO is filing one version of the report that includes

Standardization of Generator Interconnection Agreements and Procedures, Order No. 2003, 104 FERC ¶ 61,103 (2003), fn. 39.

See e.g., ISO New England, Inc., Order Accepting Filing and Granting Waiver, 169 FERC ¶ 61,015 (2019).

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the confidential information, which should not be released to the public. A public, redacted version of this report, which does not include the confidential information, is also filed herewith.

IV. CONCLUSION

As provided in Order No. 845, the ISO submits the Report to the Commission for informational purposes only. While the Report is not intended to be subject to the Commission's formal notice requirements, and does not require that the Commission take additional action, the ISO respectfully requests that the Commission grant ISO's request for confidential treatment and any necessary waivers from the requirements of Section 388.112(b)(2)(1) of the Commission's regulations.

Respectfully submitted,

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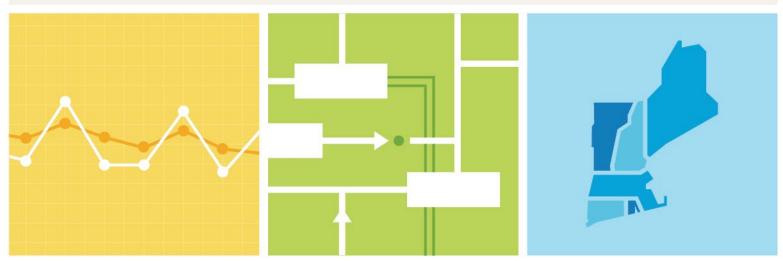


Interconnection Study Metrics First Quarter, 2024 Processing Time Exceedance Report

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MAY 15, 2024

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Section 1 Summary Metrics

Section 3.5.4 of Schedule 22 of the ISO New England Open Access Transmission Tariff requires that the ISO comply with specified reporting measures when certain Interconnection Study timeline metrics have been exceeded for consecutive calendar quarters.

In particular, the ISO must submit a report to the Commission describing the reason for each Interconnection Study (or group of clustered studies) undertaken pursuant to an Interconnection Request that exceeded its deadline for completion (excluding any allowance for Reasonable Efforts). The ISO must describe the reasons for each study delay and any steps taken to remedy these specific issues and, if applicable, prevent such delays in the future. This report must be filed with the Commission within 45 days of the end of the calendar quarter.¹

1.1 Q1 2024 Study Timeline Metrics Summary

In Q1 2024, two Interconnection Feasibility Study (Feasibility Study) reports were delivered to Interconnection Customers. Each of these Feasibility Studies were delivered later than the best efforts completion timeline of 90 days. In addition, thirty-two Feasibility Studies that are not yet completed have exceeded the 90-day completion expectation. The average time from executed Feasibility Study Agreement receipt to delivery of completed Feasibility Study report to the Interconnection Customer was 173.5 days, which is approximately 20 days sooner than during Q4 2023. The delays are attributable partly to the need to iterate data with Interconnection Customers, the inability of the ISO to begin the studies because of project dependencies (i.e. the need to complete studies for higher queued projects), the timing needed for the Transmission Owners and Affected Parties to prepare cost estimates and time to construct estimates, as well as the need to include Affected System analyses.

In Q1 2024, six Interconnection System Impact Study (System Impact Study) reports were delivered to Interconnection Customers. Each of these System Impact Studies were delivered later than the best efforts completion timeline of 270 days. In addition, thirty-one System Impact Studies that are not yet completed have exceeded the 270-day completion expectation. The average time from executed System Impact Study Agreement receipt to delivery of completed System Impact Study report to the Interconnection Customer was 534.33 days, which has increased by approximately 10 days since the previous quarter. The delays are mostly attributable to the inability of the ISO to begin the studies because of project dependencies (i.e. the need to complete studies for higher queued projects), the timing needed for the Transmission Owners and Affected Parties to prepare cost estimates and time to construct estimate, as well as iterative data issues. Late stage queue withdrawals have also triggered the need for several restudies.

In Q1 2024, one Facility Study report was delivered to Interconnection Customers. This Facility Study was delivered later that the best efforts timeline of 90 days for 20% cost estimates or 180 days for 10% cost estimates. In addition, no Facility Study in process has exceeded the 90-day completion expectations for a 20% level of cost estimate. The average time from executed Facilities

¹ Note that, in addition to this report, as required by Section 3.5.4 of Schedule 22, the ISO posts on its website the total aggregate number of employee hours and third party consultant hours expended towards Interconnection Studies for its Administered Transmission System for that quarter [http://www.oasis.oati.com/isne/].

Study Agreement receipt to delivery of completed Facilities Study report to the Interconnection Customer was 116 days which is an improvement from the previous quarter.

1.2 Study Timeline Trends

The first chart below represents the average number days from when Interconnection Customers executed study agreements to when they received completed study reports for each quarter. The second chart shows the average number of days from when studies commenced to when Interconnection Customers received completed study reports.

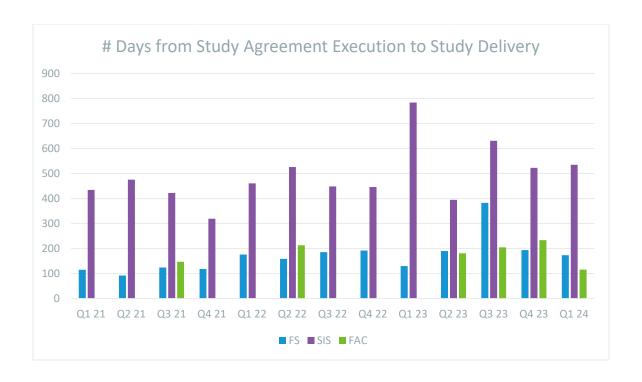
As discussed in Section 2 of this report, delays in completing studies within the best efforts completion timeline are generally attributable to factors outside the ISO's control - such as, data issues, issues related to higher-queued projects, delays in receiving cost estimates from Transmission Owners, or a combination thereof. In general, once studies begin, they have been completed closer to the best efforts periods.

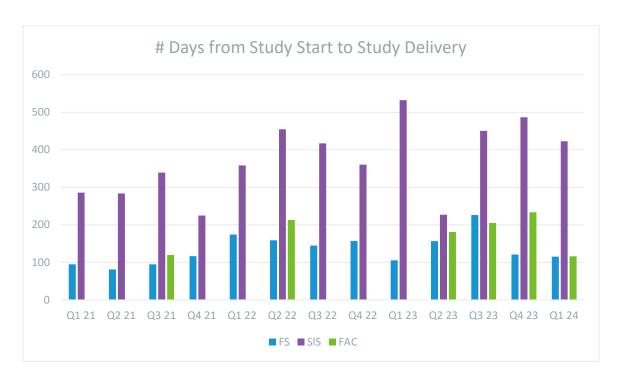
Data issues continued to contribute to the delays observed for the Interconnection Studies timelines in Q1 2024. These studies included the analysis of large offshore wind farms and inverter-based resources, which generally require complex analysis, and the design of complex upgrades such as STATCOM devices. Delays related to complex studies are expected to continue in coming quarters due to the number of large projects interconnecting in the same general areas of the system. Late stage queue withdrawal of Interconnection Requests have also contributed to delays due to the need to undertake restudies.

The details of studies completed during Q1 2024 follow in Section 2 of this report.²

² On November 19, 2020, the ISO initiated a Cluster Enabling Transmission Upgrade Regional Planning Study ("CRPS") – known as the Cape Cod Resource Integration Study ("CCRIS") pursuant to Section 4.2.1 of Schedule 22, Section 1.5.3.1 of Schedule 23, and Section 4.2.1 of Schedule 25 of Section II of the Tariff. The queue currently contains several Interconnection Requests for generation projects that will require common new transmission infrastructure to interconnect in that area of the system. In the CRPS, the ISO identified QP806, QP828, QP829, QP830, and QP922 as eligible to participate in the cluster. While QP806 and QP829, which was backfilled with QP1109 and QP1154 when QP829, QP830 and QP922 withdrew, were able to move forward with the associated Cluster System Impact Study, the ISO initiated a second CCRIS to address the remaining eligible projects.

Additional projects that proposed to interconnect in the Cape Cod Area, were included in the second CCRIS to identify additional Cluster Enabling Transmission Upgrades and associated system upgrades to enable the possible interconnection of additional resources proposed in the Interconnection Requests identified as cluster-eligible under the Interconnection Procedures. QP830, QP922, QP1059, QP1109, QP1142, QP1154 and QP1225 were identified to be eligible to participate in the Second CCRIS. QP829, QP830 and QP922 withdrew in May 2022. Subsequently several other projects that had been identified as cluster-eligible in the Second CCRIS withdrew from the ISO interconnection queue. As a result of these withdrawals, only one relevant project (Queue Position 1225) remains in the interconnection queue. As a result, on January 6, 2023, the ISO announced that it was terminating the Second CCRIS in accordance with Section 15.3 of Attachment K of the ISO Open Access Transmission Tariff (OATT) and QP1225 will be studied serially in accordance with the Large Generator Interconnection Procedures in Schedule 22 of the OATT. QP1225 will be studied, in queue order, after the first Cape Cod CSIS.





Section 2

Completed Individual Reports for Delayed Interconnection Studies

This Section 2 describes the Interconnection Study processing times for each completed study that exceeded the best efforts completion deadline during the quarter.

2.1 Queue Position No. 1397

Study Type	Feasibility Study
Unit Type	Battery Storage
Net MW	102
Point of Interconnection	National Grid 115 kV – Treasure Valley Substation
County, State	Worcester, MA
Date of Study Agreement Execution by the Interconnection Customer	08/31/2023
Date of Study Completion	02/28/2024
Number of Days to Complete Study	181

2.1.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 08/18/2023 and the data was received on 08/21/2023.

2.1.2 Timeline for Review and Correction of Interconnection Customer Data

There were no issues with the Interconnection Customer data.

2.1.3 Timeline In Which Study Did Not Commence Until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is dependent on the Interconnection Studies for the following higher-queued requests: QP1384 and QP1385.

2.1.4 Timeline for Study Conduct

The Feasibility Study was completed approximately 75 days after the start of the study.

2.1.5 Timeline for the Collection of Additional Data from the Interconnection Customer

No additional data was requested from the Interconnection Customer.

2.1.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.1.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

Cost estimates were requested 02/05/2024 and received on 02/26/2024.

2.2 Queue Position No. 1427

Study Type	Feasibility Study
Unit Type	Solar
Net MW	253.6
Point of Interconnection	Eversource Lebanon Maine Line 391 Buxton Substation (CMP) to Scobie Pond
County, State	York, MA
Date of Study Agreement Execution by the Interconnection Customer	10/13/2023
Date of Study Completion	3/27/2024
Number of Days to Complete Study	166

2.2.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 10/10/2023 and technical data was received on 10/18/2023.

2.2.2 Timeline for Review and Correction of Interconnection Customer Data

There were no issues with the Interconnection Customer data.

2.2.3 Timeline In Which Study Did Not Commence Until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is not dependent on the Interconnection Studies for higher-queued requests.

2.2.4 Timeline for Study Conduct

The Feasibility Study was completed approximately 155 days after the start of the study.

2.2.5 Timeline for the Collection of Additional Data from the Interconnection Customer

No additional data was requested from the Interconnection Customer.

2.2.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.2.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

Cost estimates were requested on 12/29/2023 and were provided on 03/20/2024.

2.3 Queue Position No. 1138

Study Type	System Impact Study
Unit Type	Solar
Net MW	50.16
Point of Interconnection	Eversource 115 kV 1607/1505 Line
County, State	Windham, CT
Date of Study Agreement Execution by the Interconnection Customer	05/04/2022
Date of Study Completion	01/19/2024
Number of Days to Complete Study	625

2.3.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 04/11/2022 and data was received on 06/03/2022.

2.3.2 Timeline for Review and Correction of Interconnection Customer Data

The Interconnection Customer was notified of issues with the data on 06/13/2022 and responded on 07/08/2022.

2.3.3 Timeline In Which Study Did Not Commence Until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is not dependent on the Interconnection Studies for higher-queued requests.

2.3.4 Timeline for Study Conduct

The System Impact Study was completed approximately 590 days after the start of the study.

2.3.5 Timeline for the Collection of Additional Data from the Interconnection Customer

Additional data was requested from the Interconnection Customer on 11/21/2022 and provided on 12/22/2022,on 01/04/2023 and provided on 01/10/2023, on 02/06/2023 and provided on 02/15/2023, on 03/08/2023 and provided on 03/17/2023, and on 03/30/2023 and provided on 04/20/2023. on 05/10/2023 and provided on 05/18/2023, on 06/02/2023 and provided on 06/09/2023, on 06/29/2023 and provided on 08/18/2023, on 08/22/2023 and provided on 08/31/2023. A further notice was sent on 09/14/2023 and provided on 10/12/2023.

2.3.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.3.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

Cost estimates were requested on 10/06/2023 and were received on 02/08/2024.

2.4 Queue Position No. 1148

Study Type	System Impact Study
Unit Type	Battery Storage
Net MW	301.26
Point of Interconnection	Eversource 115 kV Electric Avenue Substation
County, State	Suffolk, MA
Date of Study Agreement Execution by the Interconnection Customer	04/14/2022
Date of Study Completion	01/29/2024
Number of Days to Complete Study	655

2.4.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 04/28/2022 and the data was received on 06/10/2022.

2.4.2 Timeline for Review and Correction of Interconnection Customer Data

The Interconnection Customer was notified of issues with the data on 06/01/2022, 06/23/2022, 07/22/2022, 08/02/2022, 08/12/2022, 08/19/2022, and 10/20/2022 and after multiple attempts resolved the issues on 12/29/2022.

2.4.3 Timeline In Which Study Did Not Commence Until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is dependent on the Interconnection Studies for the following higher-queued request: QP1110, QP1115 and QP1143.

2.4.4 Timeline for Study Conduct

The System Impact Study was completed approximately 290 days after the start of the study.

2.4.5 Timeline for the Collection of Additional Data from the Interconnection Customer

No additional data was requested from the Interconnection Customer.

2.4.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

Information needed to model DER projects was requested from the Interconnecting Transmission Owner on 06/20/2023 and were provided on 07/18/2023.

2.4.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

Cost estimates were requested on 10/16/2023 and were provided 11/30/2023.

2.5 Queue Position No. 1192

Study Type	System Impact Study
Unit Type	Solar
Net MW	101.13
Point of Interconnection	Eversource N. Bloomfield to Agawam 345 kV Line
County, State	Hartford, CT
Date of Study Agreement Execution by the Interconnection Customer	09/12/2022
Date of Study Completion	01/22/2024
Number of Days to Complete Study	497

2.5.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 08/26/2022 and the data was received on 09/20/2022.

2.5.2 Timeline for Review and Correction of Interconnection Customer Data

There were no issues with the Interconnection Customer data.

2.5.3 Timeline In Which Study Did Not Commence Until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is not dependent on the Interconnection Studies for higher-queued requests.

2.5.4 Timeline for Study Conduct

The System Impact Study was completed approximately 480 days after the start of the study.

2.5.5 Timeline for the Collection of Additional Data from the Interconnection Customer

No additional data was requested from the Interconnection Customer.

2.5.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.5.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

Cost estimates were requested 05/31/2023 and received on 06/23/2023.

2.6 Queue Position No. 1247

Study Type	System Impact Study
Unit Type	Solar Increase
Net MW	25
Point of Interconnection	Eversource 115 kV Line between Barbour Hill and Windsor Lock Substations
County, State	Hartford, CT
Date of Study Agreement Execution by the Interconnection Customer	06/17/2022
Date of Study Completion	01/29/2024
Number of Days to Complete Study	591

2.6.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 07/12/2022 and data was received on 07/14/2022.

2.6.2 Timeline for Review and Correction of Interconnection Customer Data

The Interconnection Customer was notified of issues with the data on 08/04/2022 and responded on 08/26/2022.

2.6.3 Timeline In Which Study Did Not Commence Until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is dependent on the Interconnection Studies for the following higher-queued requests: QP1192, QP1193 and QP1245.

2.6.4 Timeline for Study Conduct

The System Impact Study was completed approximately 545 days after the start of the study.

2.6.5 Timeline for the Collection of Additional Data from the Interconnection Customer

Additional data was requested from the Interconnection Customer on 10/07/2022 and was provided on 11/10/2022. An additional notice was sent on 11/30/2022 and the Interconnection Customer responded on 12/07/2022. Further issues were identified on 01/19/2023 and the Interconnection Customer responded on 01/24/2023.

2.6.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.6.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

No additional cost estimates were requested.

2.7 Queue Position No. 1272

Study Type	System Impact Study
Unit Type	Battery Storage Addition
Net MW	45
Point of Interconnection	Eversource 115 kV West Springfield substation
County, State	Hampden, MA
Date of Study Agreement Execution by the Interconnection Customer	10/28/2022
Date of Study Completion	02/27/2024
Number of Days to Complete Study	487

2.7.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 10/21/2022 and the data was received on 10/28/2022.

2.7.2 Timeline for Review and Correction of Interconnection Customer Data

The Interconnection Customer was notified of issues with the data on 12/02/2022 and after multiple iterations and a Notice of Withdrawal the Interconnection Customer cured the deficiencies on 04/18/2023.

2.7.3 Timeline In Which Study Did Not Commence Until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is not dependent on the Interconnection Studies for the higher-queued requests.

2.7.4 Timeline for Study Conduct

The System Impact Study was completed approximately 330 days after the start of the study.

2.7.5 Timeline for the Collection of Additional Data from the Interconnection Customer

Additional data was requested from the Interconnection Customer on 05/15/2023 and provided on 06/28/2023. An additional notice was sent on 06/30/2023 and the Interconnection Customer responded on 07/21/2023. Further issues were identified on 07/22/2023, 08/25/2023, 10/03/2023 and the Interconnection Customer responded on 08/21/2023, 09/28/2023, and 10/19/2023, respectively.

2.7.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.7.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

Cost estimates were requested on 01/10/2024 and were provided on 02/09/2024.

2.8 Queue Position No. 1357

Study Type	System Impact Study
Unit Type	Solar Increase
Net MW	5 MW
Point of Interconnection	Eversource 115 kV Line between Barbour Hill and Windsor Lock Substations
County, State	Hartford, CT
Date of Study Agreement Execution by the Interconnection Customer	03/27/2023
Date of Study Completion	03/15/2024
Number of Days to Complete Study	354

2.8.1 Timeline between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 04/13/2023 and the data was received on 04/17/2023.

2.8.2 Timeline for Review and Correction of Interconnection Customer Data

There were no issues with the Interconnection Customer data.

2.8.3 Timeline in which Study Did not Commence until Resolution of Higher Queue Positions (Backlog)

The Interconnection Request for this project is dependent on the Interconnection Studies for the following higher-queued requests: QP1245 and QP1247.

2.8.4 Timeline for Study Conduct

The System Impact Study was completed approximately 320 days after the start of the study.

2.8.5 Timeline for the Collection of Additional Data from the Interconnection Customer

No additional data was requested from the Interconnection Customer.

2.8.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.8.7 Timeline for Preparation of Cost Estimates by the Transmission Owner

No additional cost estimates were requested.

2.9 Queue Position No. 1112

Study Type	Facilities Study
Unit Type	Battery Storage
Net MW	105
Point of Interconnection	National Grid 115 kV B128 Line
County, State	Franklin, MA
Date of Study Agreement Execution by the Interconnection Customer	9/28/2023
Date of Study Completion	01/22/2024
Number of Days to Complete Study	116

2.9.1 Timeline Between Study Agreement Execution and Receipt of Data and Deposit from the Interconnection Customer

The deposit was received on 09/28/2023 and no data was required.

2.9.2 Timeline for Review and Correction of Interconnection Customer Data

No additional data was requested from the Interconnection Customer.

2.9.3 Timeline In Which Study Did Not Commence Until Resolution of Queue Positions (Backlog)

The Interconnection Request for this project is not dependent on the Interconnection Studies for higher-queued requests.

2.9.4 Timeline for Study Conduct

The Facilities Study was completed approximately 115 days after its start.

2.9.5 Timeline for the Collection of Additional Data from the Interconnection Customer

No additional data was requested from the Interconnection Customer.

2.9.6 Timeline for the Collection of Study Data from the Interconnecting Transmission Owner

No data was requested from the Interconnecting Transmission Owner.

2.9.7 Timeline for Preparation of Cost Estimates by the Interconnecting Transmission Owner

Cost estimates were provided with the completed study report.

Section 3 Interconnection Studies Not Yet Completed Due to Delays CONFIDENTIAL INFORMATION REDACTED

Section 4 Steps to Remedy Issues and Prevent Future Delays

This Section describes the steps that are being taken to remedy issues and prevent future delays.

4.1 Transition of Standard Feasibility Study Scope

In a concurrent filing to the ISO's Order No. 845 compliance filing,³ the ISO proposed to modify the standard scope of the Feasibility Study to consist of the following:

The Interconnection Feasibility Study will consist of a limited power flow, including thermal analysis and voltage analysis, and short circuit analysis. The Interconnection Feasibility Study report will provide (i) the study findings; and (ii) a preliminary description of a non-binding good faith order of magnitude estimated cost of (unless the Interconnection Customer waives such cost estimate) and the time to construct the Interconnection Facilities and Network Upgrades necessary to interconnect the Large Generating Facility as identified within the scope of the analysis performed as part of the study.

Feasibility Studies that commenced after the Commission's acceptance of that modification are proceeding under the new narrower scope. The ISO anticipated that as a result more Feasibility Studies would be completed within the best-efforts timeline, but would also be subject to more uncertainty given that studies for higher Queue Positions may not yet be fully resolved. Despite these changes, however, issues with Interconnection Customer data and the time needed for Interconnecting Transmission Owner cost estimates continue to drive Feasibility Study delays.

Following the ISO's implementation of the first-ready, first-served Cluster Study Process required by Order No. 2023, the Feasibility Study will be eliminated from the interconnection process. Projects with an incomplete Feasibility Study will be eligible to enter the Transitional Cluster Study.

4.2 Backlog and Cluster Studies

In many cases, after a System Impact Study has started, it is being completed close to the best efforts timeline specified in the Interconnection Procedures. A primary driver of Interconnection Study timeline exceedance is delay in the commencement of the study due to a backlog of higher Queue Positions. In New England, backlog is locational and driven by external development incentives. For example, on the coast of southeast New England, there continues to be a backlog of Interconnection Requests for multiple offshore wind projects, all of which were submitted at approximately the same time. The Interconnection Requests were submitted for projects that have responded to large state procurement announcements.

The ISO is taking steps to mitigate the impact of these backlogs. In Massachusetts, after evaluating conditions, the ISO initiated its Clustering process. As part of that process, the ISO performed the

³ ISO New England Inc., et al., Revisions to ISO New England Inc. Transmission, Markets and Services Tariff to Modify Timelines and Scope of Interconnection Studies, Docket No. ER19-1952-000 (May 22, 2019) ("Interconnection Studies Timeline Modifications"). ISO New England Inc., et al., 170 FERC ¶ 61,218 (2020) (accepting the Interconnection Studies Timeline Modifications).

first CCRIS to identify the Cluster Enabling Transmission Upgrade and associated system upgrades to enable the possible interconnection of some of the resources proposed in the Interconnection Requests identified as cluster-eligible under the Interconnection Procedures. The result was the formation of the First Cape Cluster initially consisting of QP806 and QP829, and those Interconnection Requests proceeded to be studied as part of the associated CSIS. Because there remained additional projects proposing to interconnect in the Cape Cod Area, the ISO was performing the second CCRIS to identify additional Cluster Enabling Transmission Upgrades and associated system upgrades to enable the possible interconnection of additional resources proposed in the Interconnection Requests identified as cluster-eligible under the Interconnection Procedures. QP830, QP922, QP1059, QP1109, QP1142, QP1154 and QP1225 were identified to be eligible to participate in the Second CCRIS. QP829, QP830 and QP922 withdrew in May 2022. The withdrawal of QP829 triggered the cluster backfilling provisions in the Interconnection Procedures. The ISO was able to backfill the CSIS with QP1109 and QP1154, avoiding cluster collapse. Based on changes to the New England Transmission System, it was determined that QP1059 is no longer cluster eligible because it no longer is expected to share common upgrades with the other projects in the second CCRIS. QP1059 withdrew from the Queue in December 2022.

Additional projects that proposed to interconnect in the Cape Cod Area, were included in the second CCRIS to identify additional Cluster Enabling Transmission Upgrades and associated system upgrades to enable the possible interconnection of additional resources proposed in the Interconnection Requests identified as cluster-eligible under the Interconnection Procedures. Subsequently several other projects that had been identified as cluster-eligible in the Second CCRIS withdrew from the ISO interconnection queue. As a results of these withdrawals, only one relevant project (QP1225) remains in the interconnection queue. As a result on January 6, 2023, the ISO announced that it was terminating the Second CCRIS in accordance with Section 15.3 of Attachment K of the ISO Open Access Transmission Tariff (OATT) and QP1225 will be studied serially in accordance with the Large Generator Interconnection Procedures in Schedule 22 of the OATT. QP1225 will be studied, in queue order, after the first Cape Cod CSIS.

Similarly, in Maine, after evaluating conditions due to projects responding to large state procurement announcements, the ISO initiated the clustering provisions of its Interconnection Procedures. QP1210, QP1211, QP1227, QP1228, QP1230, QP1236, QP1243, QP1256, QP1257, QP1271, QP1295, QP1370, QP1371, QP1375, QP1379 and QP1429 have been identified to be eligible to participate in the Third Maine Resource Integration Study (MERIS). The cluster study process is currently underway.

As a result of Order No. 2023 implementation, all projects without a completed System Impact Study prior to August 30, 2024 will be eligible to enter the Transitional Cluster Study.

4.3 Interconnection Customer Data Issues

The ISO has moved the Interconnection Customer data review earlier in the Interconnection Request process for projects that are delayed due to dependencies on projects with higher-queued requests and resources continue to be expended to review multiple data iterations to ensure that the data is 'study ready' when it is time for the study to commence. This has helped in some cases for studies to be completed more efficiently once they commence. However, the ISO still faces delays when subsequent data problems have emerged during the course of a study and, often, multiple data iterations are necessary to fully address the problems.

4.4 Interconnecting Transmission Owner Cost Estimate Timeline

The Interconnection Studies Timelines Modifications, contained in Schedule 22 – Large Generator Interconnection Procedures, Section 6.2, changed the cost estimate for the upgrades resulting from the Feasibility Study to "a non-binding good faith order of magnitude estimated cost."

The ISO continues to work with Interconnecting Transmission Owners to encourage a standardized cost estimate development timeline of 2-4 weeks for all Interconnection Studies. However, the time needed by the Interconnecting Transmission Owners to prepare estimates for both costs and time to construct upgrades and interconnection facilities is being impacted by the number of estimates needed within that same timeframe and the complexity associated with certain projects.

Interconnection Studies for projects with complex Points of Interconnection and/or upgrades will inherently take longer to scope and estimate. Additionally, because of growing numbers of distribution-connected projects in the ISO New England Queue, interconnection evaluations will involve consideration of upgrades to both the transmission and distribution systems. These types of projects, which are increasingly common, result in more complicated estimates and have a longer estimating cycle than a typical project interconnecting in a robust part of the transmission network.

As an effort to accelerate study-cycle time, Interconnecting Transmission Owners are beginning to engage in cost estimation for identified upgrades before the studies are finalized. Commencing cost estimation on expected upgrades prior to their finalization will afford Interconnecting Transmission Owners additional time for scoping and cost estimating, especially with the increasing number of more complicated projects in the queue.

4.5 Resources

Throughout Q1 2024, the ISO has continued working to complete studies with reduced personnel. Specifically, project resources were impacted due to jobs being vacated, as well as retirements. The ISO has undertaken efforts to secure new resources to work on interconnection related tasks with new hires being added to the interconnection staff in Q2 and Q3 2023.