AVANGRID

Transmission Planning

Biweekly Report on Transmission System Impact Studies for Distributed Generation Interconnections

June 28th, 2024

Biweekly Report

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1. Introduction

1.1 Purpose

This biweekly report is created to provide updates to stakeholders who have distributed generation (DG) projects included in a Transmission System Impact Study in the CMP territory. The update provides specific details on the Clusters, the Cluster schedules,[1] Cluster dependencies, and preexisting conditions.

1.2 Resources

Both internal and external resources are part of the team at CMP committed to timely execution and completion of the Cluster studies.

CMP is currently contracted with four (4) external consulting firms. These firms have a mix of dedicated and pool resources.

In total, CMP there are approximately 44 individuals involved in the completion of transmission interconnection studies.

1.3 CEII Non-Disclosure Agreements

CMP is providing Critical Energy Infrastructure Information (CEII) non-disclosure agreements (NDA) to cluster participants. Execution of this agreement will provide projects with access to CEII results for each cluster for which the project developer has at least one participating project and allows CMP to increase communication throughout the study process.

CMP is proposing to provide CEII results at five (5) Milestones throughout the Cluster study process.

1. Preliminary steady-state study results prior to mitigation. These will be shared to provide an order of magnitude view of the potential network upgrades necessary.
2. Phase 1 study results at the conclusion of the Phase 1 study, which will include mitigation and cost allocations associated with steady-state, short circuit and stability analyses
3. Restudy results inclusive of revised cost allocations
4. PSCAD results at the time of the scheduled PSCAD results check-in if any adverse conditions have been identified
5. Final reports at the conclusion of Phase 2 at the time of the scheduled final Results Check-in.

Cluster results and scheduled Results Check-in meetings may contain CEII. Therefore, the email distribution lists will only include the developer representative designated to receive the CEII correspondence. CEII and meeting invitations may be forwarded as per the CEII NDA.

Project developers with projects for all clusters have received CEII NDAs via electronic mail.

1.4 Transmission Impact Study Summary

CMP previously reported that it has 15 clusters of DG projects. Zero (0) clusters in the Data Review & Gathering Milestone, zero (0) clusters in the Scope Development milestone, zero (0) clusters in the Steady State & Short Circuit Needs Identified milestone. Zero (0) clusters are in the Mitigations Identified & Analysis Complete milestone, zero (0) clusters in PSCAD, zero (0) clusters in Report Development awaiting ISO New England approval, and 15 clusters are complete.

The schedules included in this report represent a current view forecast and do not include a period for an attrition window, subsequent attrition, and resulting restudy if necessary, as proposed in the Maine Public Utilities Commission

[1] Baseline “Start” and “Finish” dates provided in the individual cluster schedules reflect schedules as communicated at the September 14, 2021 webinar for Clusters 02-16. As future clusters come under study, this will represent the schedules developed based on the date of their close.

Docket 2021-277. These schedules are updated on a biweekly basis to keep cluster participants actively informed; as such, the schedules are fluid. CMP will continue to analyze and refine schedules and will work to mitigate delays to the greatest extent possible. FERC generators are creating delays to completing study schedules. FERC generators already included in the cluster studies and those projects coming under study during the course of the cluster studies are prompting the need for additional study scenarios resulting in mitigation and cost allocation complexities. These projects take precedence.

CMP will be transitioning to a new cluster study process that will coordinate with ISO New England's new FERC Order 2023/2023-A cluster study process. This new process is under development. No CMP/DER cluster studies will begin prior to the start of the ISO New England transitional cluster study. Please refer to ISO New England's website for the latest materials relating to Order 2023 compliance: Transmission Committee (iso-ne.com) and Reliability Committee (iso-ne.com).

Complete Cluster Projects					
Cluster Name	I.3.9 Approval Date	Study Projects	Active Projects	MW	Active Project MW
Cluster 01 - Augusta - 1	1/4/2021	17	17	61.1	61.1
Cluster 02 - Winslow-County Rd-Lakewood -1	12/17/2021	20	19	65.1	64.2
Cluster 04 - Sanford-Quaker Hill - 1	6/27/2022	17	17	62.9	62.9
Cluster 05 - Lewiston Loop - 1	7/19/2022	24	23	83.1	82.1
Cluster 03 - Kimball Rd-Lovell - 1	4/27/2023	20	19	68.2	67.6
Cluster 16 - Wyman Area - 1	4/27/2023	2	1	3.0	2.0
Cluster 06 - Detroit-Guilford-Belfast - 1	5/31/2023 & 8/31/2023	26	22	90.2	86.8
Cluster 07 - Raymond - 1	12/21/2023	11	11	43.9	43.9
Cluster 08 - Sturtevant-Leeds-Livermore-Ludden-Riley - 1	12/21/2023	6	6	20.0	20.0
Cluster 09 - Midcoast - 1	12/21/2023	12	12	37.7	37.7
Cluster 10 - Roxbury-Rumford-Woodstock - 1	12/21/2023	3	1	3.6	1.6
Cluster 14 - Louden-Biddeford IP - 1	2/22/2024	6	5	18.1	17.2
Cluster 15 - Greater Portland - 1	2/22/2024	30	15	67.3	53.2
Cluster 11 - Augusta E-Puddledock-Bowman St - 2	5/28/2024	8	7	21.5	20.5
Cluster 12 - Winslow-County Rd-Lakewood - 2	5/28/2024	2	2	7.0	7.0
Total		204.0	177.0	652.7	627.9

Table 1-1 - Complete Clusters

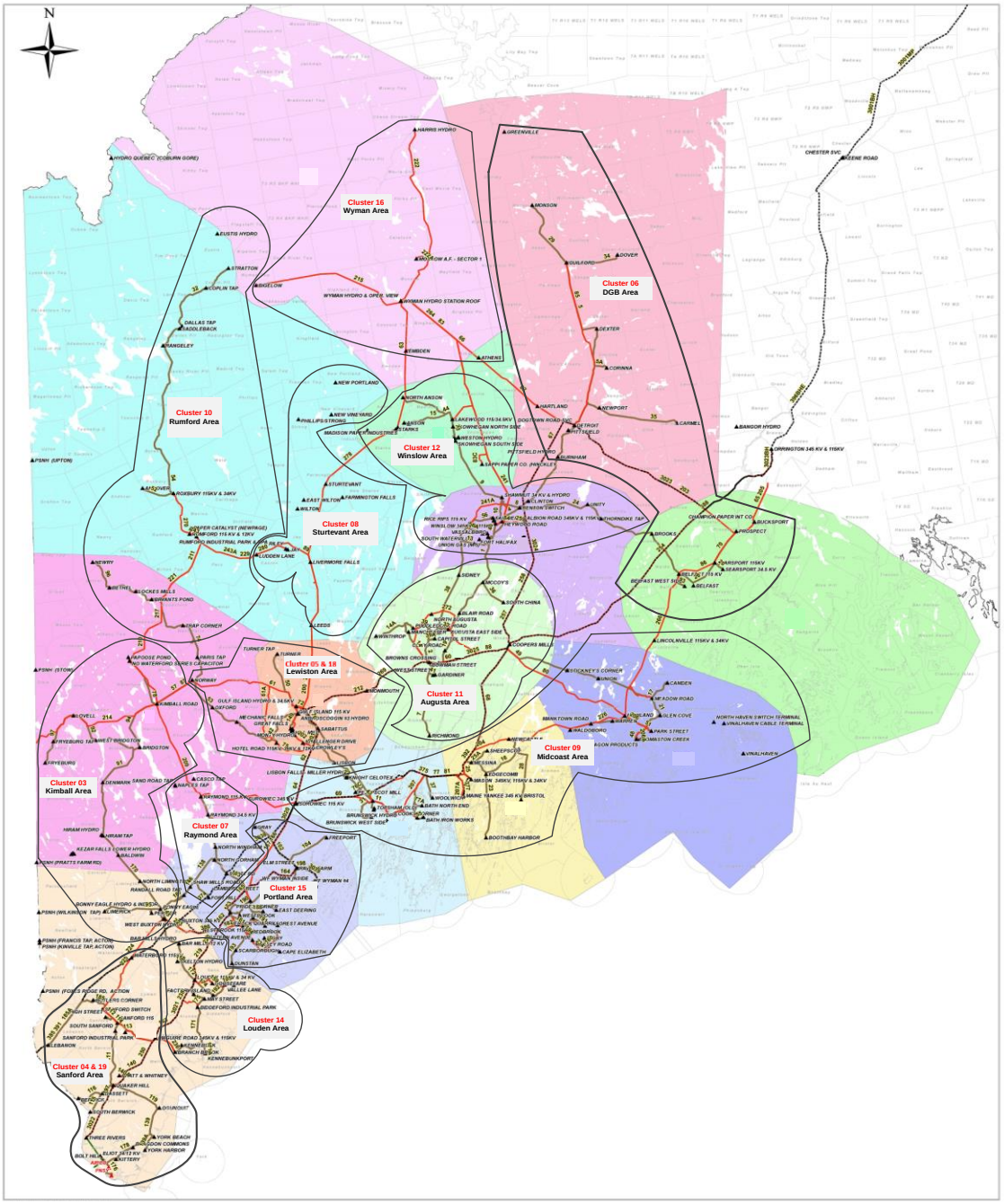

Table 1-3 – Cluster Areas

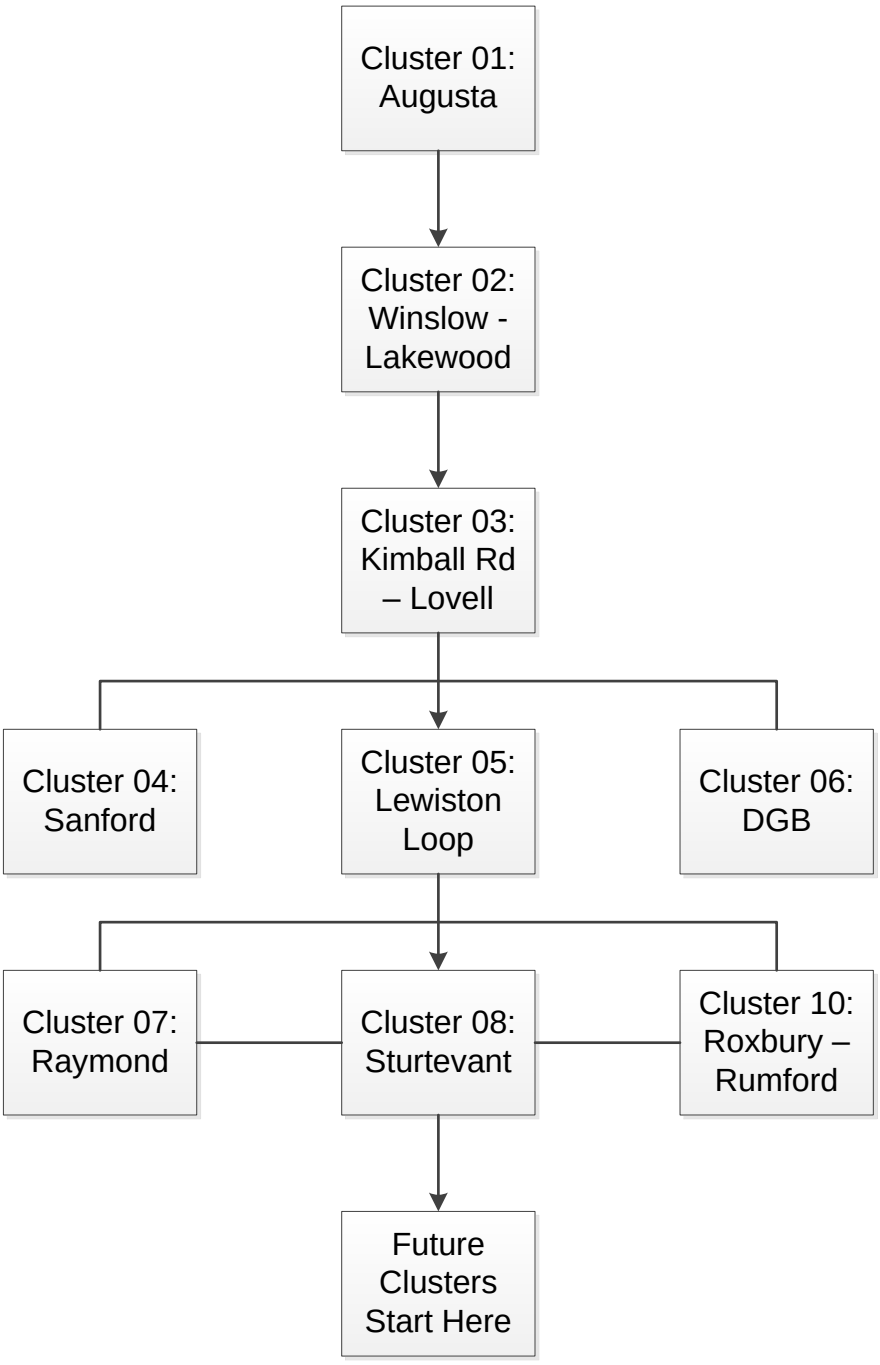

Table 1-4 - Cluster Case Diagram

2. Cluster 03: Kimball Rd – Lovell – 1 – Derate

2.1 Projects

Cluster 03 – Kimball Rd-Lovell - 1 contains 11 Active projects over 1 MW and represents a total of 24.55 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**kW**	**Substation**	**Circuit**	**PSCAD File**
67	Solar	2.49	BONNY EAGLE	610D2	Yes
74	Solar	2.45	FRYEBURG	415D2	Yes
96	Solar	1.35	FRYEBURG TAP	405D1	Yes
101/106	Solar	1.00	LIMERICK	632D1	Yes
138	Solar	2.30	BRIDGTON 34 KV	406D4	Yes
151	Solar	2.00	KIMBALL ROAD	423D2	Yes
260	Solar	4.07	HIRAM TAP	692D1	Yes
326	Solar	2.45	NORTH LIMINGTON	638D1	Yes
341	Solar	1.99	NORTH LIMINGTON	638D1	Yes
349	Solar	2.45	LIMERICK	632D1	Yes
492	Solar	2.00	LIMERICK	632D2	Yes

Table 2-1 - Active Projects in Cluster 03

2.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 03.

2.2.1 Summary

Cluster 03 shared with ISO-NE for June RC. The review meeting was on 6/21 at 11am. Project 151 reduced to less than 1MW, so allocations will change.

This current view represents experience to date and results from the development of a detailed schedule for each cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).

2.2.2 Schedule

Kimball Road/Lovell Downsize	**138 days**	**Wed 11/15/23**	**Fri 5/31/24**	**93%**
Data Review/Modeling	1 day	Mon 12/4/23	Mon 12/4/23	100%
Scope Development	**51 days**	**Wed 11/15/23**	**Tue 1/30/24**	**100%**
Steady State	**4 days**	**Wed 11/15/23**	**Mon 11/20/23**	**100%**
Stability	**9 days**	**Thu 1/18/24**	**Tue 1/30/24**	**100%**
Development of Scope Document, Appendices & Package	5 days	Wed 11/15/23	Tue 11/21/23	100%
ISO Comments on Scope	1 day	Wed 1/17/24	Wed 1/17/24	100%
Stability Analysis	**23 days**	**Fri 2/2/24**	**Tue 3/5/24**	**100%**
Steady State Analysis	**29.9 days**	**Thu 1/11/24**	**Wed 2/21/24**	**100%**
Short Circuit Analysis	**5 days**	**Fri 2/16/24**	**Fri 2/23/24**	**100%**
Cost Allocation Analysis	53 days	Mon 1/22/24	Wed 4/3/24	100%
Steady State & Short Circuit Draft Report	14 days	Fri 2/16/24	Thu 3/7/24	100%
Stability Draft Report	6 days	Thu 3/7/24	Fri 3/15/24	100%
Draft Report Comments	14 days	Thu 3/14/24	Wed 4/3/24	100%
Electranix PSCAD Report	0 days	Thu 5/30/24	Thu 5/30/24	0%
Final Report	24 days	Mon 4/29/24	Fri 5/31/24	25%

Table 2-2 – Cluster 03 Study Schedule

3. Cluster 05: Lewiston Loop – 1 – Derate

3.1 Projects

Cluster 05 – Lewiston Loop – 1 contains 12 Active projects over 1 MW and represents a total of 29.93 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**MW**	**Substation**	**Circuit**	**PSCAD File**
28	Solar	4.99	Hotel Road	420D4	Yes
29	Solar	4.97	HOTEL ROAD	420D4	Yes
30	Solar	4.53	DEER RIPS	412D4	Yes
88	Solar/Battery	4.99	TURNER TAP	467D1	Yes
99/100	Solar	.999	TURNER TAP	467D1	Yes
198	Solar	.999	LISBON	231D2	Yes
225	Solar	4.95	MECHANIC FALLS	431D3	Yes
226	Solar	1.96	MECHANIC FALLS	431D2	Yes
445	Solar	1.625	OXFORD	437D1	Yes
519	Solar	4.95	SABATTUS	450D1	Yes
562	Solar/Battery	.996	LISBON	231D1	Yes
599	Solar	1.98	CHALLENGER 12 KV	421D2	Yes

3.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 05.

3.2.1 Summary

Cluster 05's final report is under review. The review meeting was on 6/21 at 2pm.

This current view represents experience to date and results from the development of a detailed schedule for each cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).

3.2.2 Schedule

Lewiston De-Rate	96 days	Fri 2/2/24	Mon 6/17/24	89%
Data Review & Scope Development	20 days	Fri 2/2/24	Thu 2/29/24	100%
Steady State Needs & Mitigation Analysis	17 days	Thu 2/8/24	Fri 3/1/24	100%
Stability Analysis	36 days	Mon 3/4/24	Mon 4/22/24	100%
Short Circuit Analysis	4 days	Mon 3/25/24	Thu 3/28/24	100%
Transmission Cost Analysis	0 days	Mon 4/22/24	Mon 4/22/24	100%
Draft Report Development	24 days	Mon 3/25/24	Thu 4/25/24	100%
Steady State S76 NWA Follow-up	9 days	Thu 5/2/24	Tue 5/14/24	100%
Stability S76 NWA Follow-up	7 days	Wed 5/8/24	Thu 5/16/24	100%
Draft Report Comments	23 days	Fri 4/26/24	Wed 5/29/24	100%
S76 NWA Report Revisions	14 days	Tue 5/28/24	Fri 6/14/24	90%
Electranix PSCAD Report	0 days	Fri 6/14/24	Fri 6/14/24	0%
Final Report	13 days	Thu 5/30/24	Mon 6/17/24	0%

Table 3-1 - Cluster 05 Study Schedule

4. Cluster 07: Raymond - 1 - Derate

4.1 Projects

Cluster 07 - Raymond - 1 contains 6 Active projects over 1 MW and represents a total of 25.07 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**kW**	**Substation**	**Circuit**	**PSCAD File**
76	Solar	4.87	Fort Hill	624D2	Yes
202	Solar/Battery	4.96	Swett Road	682D2	Yes
312	Solar	3.47	Naples Tap	469D1	Yes
403	Solar/Battery	4.78	Sand Road Tap	470D1	Yes
560	Solar	4.99	Raymond 115 kV	445D1	Yes
586	Solar	2.00	Shaw Mills Road	660D1	Yes

Table 4-1 - Active Projects in Cluster 07

4.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 07.

4.2.1 Summary

Cluster 07 PSCAD restudy is underway. The review meeting was held 6/25 at 1pm.

This current view represents experience to date and results from the development of a detailed schedule for each Cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).

4.2.2 Schedule

Western Maine Re-Study	**90 days**	**Wed 3/20/24**	**Thu 7/25/24**	**73%**
Data Review & Scope Development	18 days	Wed 3/20/24	Fri 4/12/24	100%
Data Review & Scope Development (2)	8 days	Mon 4/22/24	Wed 5/1/24	100%
Steady State Needs & Mitigation Analysis	20 days	Wed 5/1/24	Wed 5/29/24	100%
Stability Analysis	11 days	Fri 5/3/24	Fri 5/17/24	100%
Stability S3-S182 Follow-up	3 days	Fri 5/24/24	Wed 5/29/24	100%
Short Circuit Analysis	12 days	Thu 5/30/24	Fri 6/14/24	100%
Transmission Cost Analysis	19 days	Thu 5/30/24	Tue 6/25/24	95%
Draft Report Development	21 days	Thu 5/30/24	Thu 6/27/24	95%
Draft Report Comments	12 days	Fri 6/28/24	Tue 7/16/24	0%
Electranix PSCAD Report	20 days	Mon 6/17/24	Tue 7/16/24	0%
Final Report	7 days	Wed 7/17/24	Thu 7/25/24	0%

Table 4-2 - Cluster 07 Study Schedule

5. Cluster 08: Sturtevant – Leeds – Livermore Falls – Ludden Ln – Riley - 1

5.1 Projects

Cluster 08 - Sturtevant – Leeds – Livermore Falls – Ludden Ln – Riley - 1 contains 2 Active projects over 1 MW and represents a total of 9.989 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**MW**	**Substation**	**Circuit**	**PSCAD File**
152	Solar	5.00	Leeds	471D2	Yes
158	Solar	4.99	Sturtevant	858D1A	Yes

5.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 08.

5.2.1 Summary

Cluster 08 is currently waiting on revised IAs. Allocations of remaining network upgrades have changed.

This current view represents experience to date and results from the development of a detailed schedule for each Cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).

5.2.2 Schedule

Western Maine Re-Study	**90 days**	**Wed 3/20/24**	**Thu 7/25/24**	**73%**
Data Review & Scope Development	18 days	Wed 3/20/24	Fri 4/12/24	100%
Data Review & Scope Development (2)	8 days	Mon 4/22/24	Wed 5/1/24	100%
Steady State Needs & Mitigation Analysis	20 days	Wed 5/1/24	Wed 5/29/24	100%
Stability Analysis	11 days	Fri 5/3/24	Fri 5/17/24	100%
Stability 53-5182 Follow-up	3 days	Fri 5/24/24	Wed 5/29/24	100%
Short Circuit Analysis	12 days	Thu 5/30/24	Fri 6/14/24	100%
Transmission Cost Analysis	19 days	Thu 5/30/24	Tue 6/25/24	95%
Draft Report Development	21 days	Thu 5/30/24	Thu 6/27/24	95%
Draft Report Comments	12 days	Fri 6/28/24	Tue 7/16/24	0%
Electranix PSCAD Report	20 days	Mon 6/17/24	Tue 7/16/24	0%
Final Report	7 days	Wed 7/17/24	Thu 7/25/24	0%

Table 5-1 - Cluster 08 Study Schedule

6. Cluster 09: Midcoast - 1

6.1 Projects

Cluster 09 - Midcoast - 1 contains 8 Active projects over 1 MW and represents a total of 23.89 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**MW**	**Substation**	**Circuit**	**PSCAD File**
352	Solar	4.95	Coopers Mills Road	230D1	Yes
359	Solar	4.95	Damariscotta Mills	219D1	Yes
471	Solar	2.00	Thomaston Creek	246D1	Yes
491	Solar	3.43	Bristol	210D2	Yes
511	Solar	2.00	Bristol	210D1	Yes
603	Solar	2.88	Sheepscot	241D1	Yes
617	Solar	2.00	Lincolnville	800D1	Yes
630	Solar	1.96	Bath 34	261D3	Yes

Table 6-1 - Active Projects in Cluster 09

6.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 09.

6.2.1 Summary

Cluster 09 IAs have gone out.

This current view represents experience to date and results from the development of a detailed schedule for each Cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).

6.2.2 Schedule

Midcoast	**90 days**	**Fri 7/21/23**	**Wed 11/29/23**	**100%**
Midcoast Completed Tasks	**90 days**	**Fri 7/21/23**	**Wed 11/29/23**	**100%**
Elimination of Second Bristol DRD	**104 days**	**Mon 1/8/24**	**Fri 5/31/24**	**94%**
Steady State	74 days	Mon 1/8/24	Thu 4/18/24	100%
Steady State Follow-up & TCA	5 days	Fri 5/3/24	Thu 5/9/24	100%
Stability	2 days	Mon 5/20/24	Tue 5/21/24	100%
Reporting & Documentation	11 days	Wed 5/8/24	Wed 5/22/24	100%
CMP review of Addendum	5 days	Thu 5/23/24	Thu 5/30/24	0%
Final Addendum	1 day	Fri 5/31/24	Fri 5/31/24	0%

Table 6-2 - Cluster 09 Study Schedule

7. Cluster 10: Roxbury – Rumford – Woodstock - 1

7.1 Projects

Cluster 10 – Roxbury – Rumford – Woodstock - 1 contains 1 Active project over 1 MW and represents a total of 1.63 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**MW**	**Substation**	**Circuit**	**PSCAD File**
509	Solar	1.62	Paris Tap	409D1	Yes

Table 7-1 - Active Projects in Cluster 10

7.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 10.

7.2.1 Summary

Cluster 10 is currently awaiting a revised IA.

This current view represents experience to date and results from the development of a detailed schedule for each Cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).

7.2.2 Schedule

Western Maine Re-Study	**90 days**	**Wed 3/20/24**	**Thu 7/25/24**	**73%**
Data Review & Scope Development	18 days	Wed 3/20/24	Fri 4/12/24	100%
Data Review & Scope Development (2)	8 days	Mon 4/22/24	Wed 5/1/24	100%
Steady State Needs & Mitigation Analysis	20 days	Wed 5/1/24	Wed 5/29/24	100%
Stability Analysis	11 days	Fri 5/3/24	Fri 5/17/24	100%
Stability S3-S182 Follow-up	3 days	Fri 5/24/24	Wed 5/29/24	100%
Short Circuit Analysis	12 days	Thu 5/30/24	Fri 6/14/24	100%
Transmission Cost Analysis	19 days	Thu 5/30/24	Tue 6/25/24	95%
Draft Report Development	21 days	Thu 5/30/24	Thu 6/27/24	95%
Draft Report Comments	12 days	Fri 6/28/24	Tue 7/16/24	0%
Electranix PSCAD Report	20 days	Mon 6/17/24	Tue 7/16/24	0%
Final Report	7 days	Wed 7/17/24	Thu 7/25/24	0%

Table 7-2 - Cluster 10 Study Schedule

8. Cluster 11: Augusta E – Puddledock – Bowman - 2

8.1 Projects

Cluster 11 – Augusta E – Puddledock – Bowman - 2 contains 6 Active projects over 1 MW and represents a total of 18.55 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**MW**	**Substation**	**Circuit**	**PSCAD File**
92	Solar	4.99	Puddledock Road	262D1	Yes
351	Solar	4.95	North Augusta	272D4	Yes
389	Solar/Battery	1.99	Puddledock Road	262D1	Yes
418	Solar	5.00	Bond Brook	208D2	Yes
561	Solar	1.90	Augusta K5	200D3	Yes
627	Solar	2.72	Cony Road	216D2	Yes

Table 8-1 - Active Projects in Cluster 11

8.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 11.

8.2.1 Summary

Cluster 11 IAs have gone out.

This current view represents experience to date and results from the development of a detailed schedule for each cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).\

8.2.2 Schedule

Augusta 2/Winslow 2	**140 days**	**Mon 9/18/23**	**Thu 4/4/24**	**98%**
Draft Report/Revised Stability Scope to ISO-NE	0 days	Mon 9/18/23	Mon 9/18/23	100%
Draft Report/Revised Stability Scope Comments	5 days	Mon 9/25/23	Fri 9/29/23	100%
TCA - ReWork due to PRJ Withdrawals	1 day	Thu 1/4/24	Thu 1/4/24	100%
Steady State Analysis - ReWork due to PRJ Withdrawals	4 days	Tue 12/26/23	Fri 12/29/23	100%
Stability Analysis - ReWork due to PRJ Withdrawals	3 days	Wed 1/3/24	Fri 1/5/24	100%
Stability Model for Electranix	0 days	Tue 1/9/24	Tue 1/9/24	100%
Short Circuit Analysis - ReWork due to PRJ Withdrawals	2 days	Thu 1/4/24	Fri 1/5/24	100%
Draft Report	7 days	Wed 12/27/23	Fri 1/5/24	100%
Draft Report Comments	8 days	Mon 1/15/24	Wed 1/24/24	100%
Electranix PSCAD Report	0 days	Wed 4/3/24	Wed 4/3/24	0%
Draft Report Revisions due to PRJ Withdrawals	12 days	Tue 2/13/24	Wed 2/28/24	100%
Final Report	1 day	Thu 4/4/24	Thu 4/4/24	0%

Table 8-2 - Cluster 11 Study Schedule

8.3 Other Information

8.3.1 Dependencies

The current list of FERC and local queued/approved projects is subject to change as cluster study progresses and stakeholder buy-in is received.

FERC and Local Queued and Approved Projects[1]				
Queue	**Fuel Type(s)**	**MW**	**POI**	**Circuit**
670	Solar	113.4	Albion Rd	N/A
639	Hydro	1,200	Larrabee Rd	N/A
889	ETU for QP639			
911	Solar	35	Lovell	N/A
923	Solar	20	Leeds	N/A
928	Solar	20	Lakewood	N/A
931	Solar	55	Roxbury	N/A
932	Solar	110	S214	N/A
935	Solar	18.4	Section 91	N/A

FERC and Local Queued and Approved Projects[1]				
Queue	**Fuel Type(s)**	**MW**	**POI**	**Circuit**
950	Solar	17	Section 97	N/A
953	Solar	20	Augusta East	N/A
1013	Solar	17.2	Section 43	N/A
1015	Battery	112	Orrington	N/A
1028	Wind	60.5	S222	N/A
1080	Solar	65	Ludden Ln	N/A
1086	Solar	74.5	S80	N/A
1087	Solar	19.9	County Rd	N/A
1097	Solar	180	S212	N/A
1100	Solar	143	Section 82	N/A
1113	Hydro/Bat	8.5	Bus At Brookfield	N/A
1125	Solar	72	S241	N/A
1146	Solar	44	Line 270	N/A
1151	Solar/Bat	4.99	Woodstock	452K1

Table 8-3 - QP Included in Cluster 11

8.3.2 Area Preexisting Conditions

This section is provided for informational purposes only. Area preexisting conditions may be improved or exacerbated by the addition of the cluster.

No preexisting conditions are available to be shared.

Table 8-4 - Preexisting Conditions in Cluster 11

9. Cluster 12: Winslow – County Rd – Lakewood - 2

9.1 Projects

Cluster 12 – Winslow – County Rd – Lakewood - 2 contains 2 Active projects over 1 MW and represents a total of 6.99 MW.

Active Projects					
PRJ	**Fuel Type(s)**	**MW**	**Substation**	**Circuit**	**PSCAD File[1]**
407	Solar	5.00	County Rd	873D2	Yes
472	Solar	1.99	County Rd (Rice Rips)	873D1	Yes

Table 9-1 - Active Projects in Cluster 12

9.2 Progress

This section contains updates including Milestones achieved, upcoming activities, schedule impacts, and/or any significant information specific to Cluster 12.

9.2.1 Summary

Cluster 12 IAs have gone out.

This current view represents experience to date and results from the development of a detailed schedule for each Cluster. It excludes unforeseen risks and unknowns (e.g. exceptionally complex mitigation [pre or post PSCAD analysis], ISO-NE queued project triggers re-assessment).

9.2.2 Schedule

Augusta 2/Winslow 2	**140 days**	**Mon 9/18/23**	**Thu 4/4/24**	**100%**
Draft Report/Revised Stability Scope to ISO-NE	0 days	Mon 9/18/23	Mon 9/18/23	100%
Draft Report/Revised Stability Scope Comments	5 days	Mon 9/25/23	Fri 9/29/23	100%
TCA - ReWork due to PRJ Withdrawals	1 day	Thu 1/4/24	Thu 1/4/24	100%
Steady State Analysis - ReWork due to PRJ Withdrawals	4 days	Tue 12/26/23	Fri 12/29/23	100%
Stability Analysis - ReWork due to PRJ Withdrawals	3 days	Wed 1/3/24	Fri 1/5/24	100%
Stability Model for Electranix	0 days	Tue 1/9/24	Tue 1/9/24	100%
Short Circuit Analysis - ReWork due to PRJ Withdrawals	2 days	Thu 1/4/24	Fri 1/5/24	100%
Draft Report	7 days	Wed 12/27/23	Fri 1/5/24	100%
Draft Report Comments	8 days	Mon 1/15/24	Wed 1/24/24	100%
Electranix PSCAD Report	0 days	Wed 4/3/24	Wed 4/3/24	100%
Draft Report Revisions due to PRJ Withdrawals	12 days	Tue 2/13/24	Wed 2/28/24	100%
Final Report	1 day	Thu 4/4/24	Thu 4/4/24	100%

Table 9-2 - Cluster 12 Study Schedule

9.3 Other Information

9.3.1 Dependencies

Cluster 12 was dependent on the completion of Cluster 02.

The current list of FERC and local queued/approved projects is subject to change as cluster study progresses and stakeholder buy-in is received.

FERC and Local Queued and Approved Projects[1]				
Queue	**Fuel Type(s)**	**MW**	**POI**	**Circuit**
670	Solar	113.4	Albion Rd	N/A
639	Hydro	1,200	Larrabee Rd	N/A
889	ETU for QP639			
911	Solar	35	Lovell	N/A
923	Solar	20	Leeds	N/A
928	Solar	20	Lakewood	N/A
931	Solar	55	Roxbury	N/A

FERC and Local Queued and Approved Projects[1]				
Queue	**Fuel Type(s)**	**MW**	**POI**	**Circuit**
932	Solar	110	S214	N/A
935	Solar	18.4	Section 91	N/A
950	Solar	17	Section 97	N/A
953	Solar	20	Augusta East	N/A
1013	Solar	17.2	Section 43	N/A
1015	Battery	112	Orrington	N/A
1028	Wind	60.5	S222	N/A
1080	Solar	65	Ludden Ln	N/A
1086	Solar	74.5	S80	N/A
1087	Solar	19.9	County Rd	N/A
1097	Solar	180	S212	N/A
1100	Solar	143	Section 82	N/A
1113	Hydro/Bat	8.5	Bus At Brookfield	N/A
1125	Solar	72	S241	N/A
1146	Solar	44	Line 270	N/A
1151	Solar/Bat	4.99	Woodstock	452K1

Table 9-3 - QP Included in Cluster 12