

Integrated Energy Data Resource (IEDR) Program Quarterly Report through September 30, 2023

Final Report | October 2023



NYSERDA

NYSERDA's Promise to New Yorkers:

NYSERDA provides resources, expertise, and objective information so New Yorkers can make confident, informed energy decisions.

Our Vision:

New York is a global climate leader building a healthier future with thriving communities; homes and businesses powered by clean energy; and economic opportunities accessible to all New Yorkers.

Our Mission:

Advance clean energy innovation and investments to combat climate change, improving the health, resiliency, and prosperity of New Yorkers and delivering benefits equitably to all.

NYSERDA Record of Revision

Document Title
Integrated Energy Data Resource (IEDR) Program Quarterly Report through September 30, 2023

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Integrated Energy Data Resource (IEDR) Program Quarterly Report through September 30, 2023

Final Report

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Abstract

The Integrated Energy Data Resource (IEDR) Program Quarterly Report is intended to inform the Public Service Commission (PSC), market participants, and additional parties interested in the progress of the IEDR program. More specifically, this report provides information on progress made in achieving the IEDR program's stated goals and objectives.

Keywords

Integrated Energy Data Resource, IEDR, use case, IEDR Advisory Group, IEDR Steering Committee, Utility Coordination Group

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Background

Through changes in its energy policy, New York State is transforming its electricity system into one that is cleaner and more resilient and affordable. However, effective access to useful energy-related data is required to achieve these goals. The urgency of providing this data has increased with the State's enactment of the Climate Leadership and Community Protection Act (Climate Act).

On February 11, 2021, the New York Public Service Commission (PSC) issued its Order implementing an integrated energy data resource (IEDR Order)¹ and directed the implementation of an IEDR to securely collect, integrate, and provide broad and appropriate access to large and diverse sets of useful energy-related information on one statewide data platform. The IEDR Order designated the New York State Energy Research and Development Authority (NYSERDA) as the IEDR Program Sponsor responsible for defining, initiating, overseeing, and facilitating the IEDR program on behalf of New York State.

The IEDR Order directs NYSERDA to file quarterly reports in this proceeding, with reports filed at the end of April, July, October, and January for the prior quarter, including information from the Program Manager monthly reports, addressing all aspects of the IEDR program. As directed, these program reports will—in the context of the schedule and budget—describe and explain (where necessary) the program's accomplishments and expenditures to date, current work and expenditures in progress, the latest program risk assessment and mitigation plan, and upcoming work and expenditures.

In issuing the IEDR Order, the PSC adopted the detailed approach and plan for the establishment of an IEDR presented in a whitepaper published by the staff of the Department of Public Service (DPS) in May 2020.²

The IEDR Order articulated the foundational principles for the development of the IEDR through the entire life cycle of the initiative and stated that the IEDR will be guided by the policy of obtaining the best overall value for New York State. This involved stakeholders to accelerate implementation timelines, reduce initiative costs and risks, and protect the agreed-upon scope by partnering with high-quality service providers aligning with the State's values.³

NYSERDA, as the Program Sponsor, has established a process that is based on three commitments:

1. Effective and extensive collaboration with and among stakeholders, including the State's utilities.
2. Procuring the services of individuals and organizations that possess the necessary expertise and experience in the development, implementation, and operation of a data platform of similar scale and scope.
3. Unambiguous regulatory requirements including firm schedules and milestones.

On April 15, 2021, the PSC issued an order to establish a uniform and comprehensive Data Access Framework to govern the means and methods for accessing and protecting all types of energy-related information.⁴ This order was based on DPS Staff recommendations.⁵ Accordingly, all aspects of designing and operating the IEDR will comply with any such framework that the PSC may establish.

The IEDR Order designated NYSERDA to assume the role of the IEDR Program Sponsor and assigned responsibility for defining, initiating, overseeing, and facilitating the IEDR Program on behalf of the State. The Program Sponsor's principal duties include the following:

1. Creating the IEDR Program Charter to formally establish the IEDR Program's purpose, scope, guiding principles, objectives, participants, roles, and responsibilities.
2. Organizing the membership and initial meeting schedule for an IEDR Steering Committee.
3. Organizing the membership and initial meeting schedule for an IEDR Program Advisory Group.
4. Organizing the membership and initial meeting schedule for an IEDR Program Utility Coordination Group.
5. Specifying, procuring, and administering the services provided by a professional program manager.
6. Providing the means and methods for expending the PSC-directed funding related to the program and reporting of such expenditures and IEDR program progress.
7. Ensuring robust stakeholder engagement throughout the life of the IEDR program through multiple means of communication.
8. Monitoring adherence to the Program Charter by all program participants.
9. Helping the Program Manager investigate and resolve issues that could negatively affect costs, schedule, or benefits.

The IEDR Order establishes the regulatory expectation that the IEDR will enable approximately 50 use cases over Phase 1 and 2 and specific deadlines for achieving minimum performance capabilities. This approach enables the development, implementation, and operation of the IEDR in meaningful and achievable segments. Specifically, the PSC established a two-phase schedule of the development and operation of the IEDR:

- Phase 1: The initial IEDR implementation will enable at least five of the highest priority use cases with an expectation that there could be 10 or more achieved. Phase 1 will be completed within 24 months of the work's commencement by the Program Manager (Q4 2023).
- Phase 2: The initial IEDR will expand and enhance approximately 40 additional use cases, building on the successful implementation and operation of Phase 1. Phase 2 will be completed 36 months after the completion of Phase 1 (on or about July 30, 2026).⁶

The IEDR Order further recognizes that details—associated with the development, design, and implementation of each phase of the IEDR Program—must be preceded by specific activities requiring planning that will impact the scheduling of subsequent activities and the establishment of milestones.

These activities include obtaining:

- Advice and recommendations of stakeholders through workshops and technical conferences.
- The services of a Program Manager, Solution Architect, and other professional resources as described in the IEDR Order.
- A workplan and budget from the Program Manager for both Phase 1 and Phase 2.
- Recommendations of the Advisory Group.

1 Program Status

1.1 Completed Milestones

During Q3 2023, the Integrated Energy Data Resource (IEDR) Program Team continued to focus efforts on working through long-term Program milestones that are critical for the IEDR MVP (Minimum Viable Product) launch at the end of Q4 2023. Given the longer timelines associated with the completion of the remainder of Phase 1 milestones, and while substantial progress has been made in working toward the completion of the remainder of Phase 1 milestones, no milestones were completed within Q3 2023. This was anticipated and reported in the prior quarterly reports and is in line with the program schedule.

Table 1 provides an overview of completed and in-progress milestones during the third quarter of 2023. Milestones are established through the Updated Program Sponsor Implementation Plan (PSIP), which was filed on October 1, 2021.⁷ A full list of completed milestones retroactive to the beginning of the program is available in appendix B of the PSIP.

Table 1. Milestone Status—Third Quarter 2023

Milestone	Program Topic	Date Complete/ Date Expected	Status
Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Q2 2023—Q4 2023	Started—Deviation expected (Originally anticipated Q2 2023–Q3 2023).

1.2 Future Milestones

The IEDR Development Team is now working on completing the milestone “Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes” for incorporation in the Minimum Viable Product (MVP) release by the end of Q4 2023.

As previously reported, the Program milestones “Steering Committee reviews and approves declaration of IEDR MVP” and “IEDR MVP declared (5–10 use cases deployed) and end of Phase 1,” will incur an expected delay from completion in Q3 2023 to Q4 2023.

The Program milestone “IEDR MVP declared (5–10) use cases deployed and end of Phase 1” is on track to be completed by the end of Q4 2023, as expected, without an anticipated deviation.

Originally intended for Phase 1 activity, the Program milestone “IEDR Platform User Conference” will be delayed from Q2–Q3 2023 (within Phase 1), until Phase 2 of Program development.

Table 2 provides an overview of near-term milestones including expected dates for completion as established through the PSIP and any expected deviations from such dates.

Table 2. Future Milestones

Milestone	Program Topic	Date Expected	Schedule Deviation
Outreach to organizations that submitted use cases and may be aligned with prioritized use cases.	Stakeholder Engagement	Ongoing through Phase 1	Completed for IPV— Ongoing for additional MVP and Phase 2 use cases.
Use case interviews to assist in user story and user journey development.	Stakeholder Engagement	Ongoing through Phase 1	Completed for IPV— Ongoing for additional MVP and Phase 2 use cases.
Workshops/focus groups for each use case to validate user stories and user journeys.	Stakeholder Engagement	Ongoing through Phase 1	Completed for IPV— Ongoing for additional MVP and Phase 2 use cases.
Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Q2 2023 – Q4 2023	Started—Deviation expected (Originally anticipated Q2 2023 - Q3 2023).
Steering Committee reviews and approves declaration of IEDR MVP.	Public Iterations of IEDR	Q4 2023	Not Started—Deviation expected (Originally Q3 2023).
IEDR MVP declared (5–10 use cases deployed) and end of Phase 1.	Public Iterations of IEDR	Q4 2023	Not Started—Deviation not expected.
Phase 1 Summary Report filed.	Reporting	January 31, 2024	Not Started—Delayed (Originally anticipated July 30, 2023).

1.3 Future Potential Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
IEDR Platform User Conference	Stakeholder Engagement	Phase 2	Not Started—With Deviation (Originally anticipated Q2-Q3 2023).

Milestone: IEDR Platform User Conference

Schedule impact: The anticipated time frame of the Program milestone “IEDR Platform User Conference” has been delayed from Q2–Q3 2023, to Phase 2. A time frame within Phase 2 for execution of the Platform User Conference milestone will become available later in Phase 2 of Program activity.

Summary: Delaying the Platform User Conference to a later date in which a greater number of platform features and users have been established will yield more specific and valuable user insights on a greater number of platform features.

Executed Response Activities: The Program Team had suggested delaying the Platform User Conference to the Steering Committee on June 30, 2023, and received approval to delay the milestone until Phase 2 of Program activity. Phase 1 Program engagement with stakeholders to date has been robust and has already provided several opportunities for stakeholders to provide broad, directional feedback regarding Phase 2 priorities.

These opportunities include:

- On February 9, 2023, the IEDR Program team held a general stakeholder event that recapped the current state of Phase 1 development, reviewed survey results from stakeholders prioritizing draft-use cases that could be deployed in Phase 2 and sought additional feedback regarding draft Phase 2 use cases.
- On March 31, 2023, the IEDR Program team launched an Ideas Portal which allows IEDR users to provide asynchronous feedback regarding bugs, feature improvements, and requests for new data sets and features.
- On May 12, 2023, the IEDR program team filed the IEDR Phase 2 Proposal which included draft Phase 2 use cases. The proposal was available for public comment from August 16, 2023, through October 16, 2023.

Therefore, the IEDR Program Team, with support from the IEDR Steering Committee, finds that sufficient general stakeholder feedback has been collected in Phase 1 of Program development and will utilize the remainder of Phase 1 to collect use case specific feedback, crucial for prioritization and refinement of features, in smaller group sessions.

In Phase 2, the Program Team will consider the need for and potential planning of a Platform User Conference. In addition to planning to conduct a future Platform User Conference at a time that will better serve Program needs, any planning of the Platform User Conference in Phase 2 will include focused considerations on how to better target and communicate with specific and relevant user groups as related to evolving Program needs, especially in relation to the IEDR Advisory Group. Detailed plans for a future potential Phase 2 Platform User Conference, including the to-be-determined event scope and logistics, will be made available during Phase 2 of Program development.

1.4 Future Potential Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
Phase 1 Summary Report filed.	Reporting	January 31, 2024	Not Started–Under review, deviation expected, (Originally expected July 30, 2023).

Milestone: Phase 1 Summary Report filed.

Schedule impact: The Program milestone “Phase 1 Summary Report filed” will be delayed from its originally anticipated completion time frame of July 30, 2023, to January 31, 2024, without further deviation to the schedule.

Summary: Submission of the IEDR Phase 1 Status and Summary Report as detailed by the Commission’s Order Implementing an Integrated Energy Data Resource states “At the end of Phase 1, after the initial use cases have been implemented and are operational, NYSERDA shall file a IEDR Phase 1 Status and Summary Report, on or before July 30, 2023, which is twenty-four months after the Program Manager is expected to begin its work.” The currently expected completion time frame for this milestone is January 31, 2024, which will better align with the completion of Phase 1 operations.

Planned Response Activities: On June 21, 2023, NYSERDA filed a Request for Extension from the Commission on the timeline for filing the IEDR Phase 1 Status and Summary Report, until January 31, 2024. It was noted within the Request for Extension that “NYSERDA has presented this approach to the IEDR Steering Committee, which is in agreement with the request for this extension.” As described in the Request for Extension “This additional time will allow NYSERDA to implement and operationalize the identified priority use cases and develop and submit the Phase 1 report that includes the most comprehensive overview of Phase 1 activities possible upon completion of Phase 1 of the IEDR.” On June 28, 2023, the Commission responded to the Request for Extension and granted the extension request.

1.5 Future Potential Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
Steering Committee reviews and approves declaration of IEDR MVP.	Public Iterations of IEDR	Q4 2023	Not Started–Deviation expected (Originally Q3 2023).

Milestone: Steering Committee reviews and approves declaration of IEDR MVP.

Schedule impact: The anticipated completion date of this Program milestone was delayed from Q3 2023 to Q4 2023 to align more closely with the completion of the IEDR MVP.

Summary: Delayed completion of the Program milestone “Steering Committee reviews and approves declaration of IEDR MVP” is a direct result of previous Program milestone delays, that have since been addressed and completed.

Planned Response Activities: The Program Team continues to work through the remaining Program milestones in the most efficient manner to ensure that the major Program completion of Phase 1, including the Program milestone “IEDR MVP declared (5–10 use cases deployed) and end of Phase 1” stays on track for completion by the end of Q4 2023.

2 Stakeholder Engagement

2.1 Background

The IEDR Order articulates policy objectives and establishes venues and processes that are intended to assure the broadest possible opportunity for stakeholder contributions throughout the entire life cycle of the IEDR initiative. Robust stakeholder engagement is required to ensure the centralized platform provided by the IEDR will be a trusted resource that all interested parties and stakeholders can use to efficiently access and analyze pertinent elements of the State’s energy system and customer information. Furthermore, stakeholder engagement will play a critical role in defining and prioritizing the many use cases anticipated by the IEDR Order. The IEDR Order provides for the establishment of an Advisory Group that will bring together a broad spectrum of stakeholder perspectives to inform the design and operation of the IEDR. The Program Sponsor will organize, convene, and facilitate the work of the Advisory Group.

Achieving the breadth and depth of stakeholder participation envisioned by the IEDR Order requires meaningful opportunities for broad stakeholder engagement that complements and contributes to the Advisory Group’s work. To that end, the Program Sponsor will continue to provide all interested stakeholders with meaningful opportunities to contribute to the development of the IEDR through a robust schedule of workshops, technical conferences, periodic reports, and other formats.

These activities are and will continue to be designed in consultation with stakeholders, the Advisory Group, Steering Committee, and Program Manager. Overall responsibility and accountability for stakeholder engagement reside with the Program Sponsor who will continue to collaborate with and call upon the Program Manager to facilitate stakeholder engagement activities.

2.2 Stakeholder Engagement Status

Key stakeholder engagement in Q3 2023 included conducting IEDR demonstrations with industry stakeholder groups. During these IEDR demonstrations the Program Team explored IEDR features and answered stakeholder questions. Q3 key stakeholder engagement also included foundational planning and restructuring of the Advisory Group (AG).

Direct engagement between IEDR users and the Development Team was previously enabled in the form of an Ideas Portal, that was launched on March 31, 2023, and continues to facilitate conversations between the IEDR Program Team and IEDR users. The Ideas Portal allows IEDR users to provide asynchronous feedback regarding bugs, feature improvements, and requests for new data sets and features, and is available at <https://iedr.ideas.aha.io/>

2.3 Advisory Group

During Q3 2023, at the end of the AG's initial 24-month appointment term, and in consultation with the IEDR Steering Committee, the Program Team restructured the operations of the AG to align more closely with evolving Program development needs. Initially, the AG was structured to operate as a unified body with the potential for the creation of subcommittees.

Effective September 2023, the revised AG structure will now consist of two separate groups or "tiers" of AG members, with the continued opportunity for the creation of subcommittees.

- Tier 1 AG meetings will function as large group sessions, focused on overall Program development. The cadence of Tier 1 AG meetings will be quarterly.
- Tier 2 AG meetings will function as small group sessions, focused on reviewing specific uses cases and software features. Effective September 2023, the cadence of Tier 2 AG meetings will be based on use case groupings and the Program development roadmap.

Additionally, the Program Team created a new AG Code of Conduct that now applies to AG activity moving forward. Effective September 2023, the Advisory Group Code of Conduct establishes and maintains that:

- Tier 1 Advisory Group members must attend a minimum of 75% of Tier 1 meetings within a calendar year (unless advanced notice of absence is provided to the Program Team).
- Tier 2 Advisory Group members must attend a minimum of 100% of their assigned and agreed upon Tier 2 meetings within a calendar year (unless advanced notice of absence is provided to the Program Team).
- Advisory Group members must actively participate in meetings, through providing comments, questions, reflections, and criticisms to the Program Team during Advisory Group meetings.
- Advisory Group members must not leverage Advisory Group meetings as a platform to advocate, advertise, or promote any private interests that do not serve the intended Program goals of the Advisory Group.
- Advisory Group members must disclose any known operative conflicts of interest within the Advisory Group to the Program Team.

Due to the culmination of the original AG membership term limits and the active restructuring of the composition and operations of the AG that took place in Q3 2023, there were no AG meetings held in Q3 2023. The first Tier 2 AG meeting is slated to be held after the finalization of the Q3 Program Quarterly Report in October 2023. Details on the newly launched AG will be available in the Q4 2023 Program Quarterly Report.

2.4 Utility Coordination Group

NYSERDA regularly convenes a Utility Coordination Group (UCG) as established by the IEDR Order. The UCG provides a venue for collaboration, coordination, and oversight of utility activities related to the design and implementation of the IEDR and alignment with the schedules and activities of the Data Access Framework (DAF). The UCG is comprised of members of the Steering Committee or their designees, NYSERDA, the Program Manager, and the senior-level leader of each utility IEDR implementation team that is established in compliance with the IEDR Order.

Previously, beginning in Q4 2022, the approach to UCG meetings transitioned to focus on engagement levels between the IEDR Program Team and the UCG. The subsequent UCG meeting engagement strategy evolved to include a 30- to 60-minute bi-weekly UCG meeting, followed up by targeted meetings with individual utilities and specific subject matter experts.

Q3 2023 UCG meetings primarily focused on utility milestone tracking, current IEDR releases, data specifications and considerations, and MVP use case updates.

2.4.1 Record of Weekly IEDR UCG Meetings as of Q3 2023

July 6, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the IEDR Program Team provided status updates on the new draft approach to development milestone tracking and related Joint Utilities suggestions. The shift of the utility liaison role and key updates to the V002 tariff data specification were also discussed.

July 18, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the IEDR Program Team provided an update on the limited data sharing agreement. An overview of features included in the version 1.4 and 1.5 joint release, updated utility milestones, and the process for review of received versus expected data were also discussed.

August 1, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the IEDR Program Team provided an update on utility milestones, discussed the roll-out timing of SSO implementation as requested by the Joint Utilities, and reviewed the asynchronous tariff data joint working session approach.

August 15, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the IEDR Program Team provided an update on utility milestones and discussed transmission data, including transmission headroom filing formats and CEII transmission line layer considerations.

August 29, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the IEDR Program Team provided an update on utility milestones and reviewed user stories for new use cases and data sets to enhance the IEDR MVP.

September 12, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the Program Team provided status updates on the utility milestone report, customer data transfer specification redline comments, and utility data dependencies for upcoming releases.

September 26, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the Program Team provided status updates on utility milestones, reviewed proposed data delivery cadence and dependencies, and discussed the transmission headroom and transmission node use case. Con Edison also presented their customer data masking strategies.

3 Use and Status of Funding

The IEDR Order established a budget of \$13.5 million for NYSERDA's Phase 1 efforts. The Order directed recovery of these costs in proportion to the total electric load for 2019 among New York Power Authority (NYPA), Long Island Power Authority (LIPA), and jurisdictional utilities, with the costs allocated among jurisdictional utilities in the same manner as costs allocated and collected through the bill-as-you-go agreements. Based upon 2019 load values provided by DPS Staff, costs will be allocated in the following apportionment.⁸

Table 3. IEDR Cost Allocation

IEDR Cost Allocation										
IOU	Delivery Service Load ¹	2019			%	%	x	%	=	%
		NYPA Load Delivered by IOU	IOU Load net of NYPA Load	BAYG Allocation%						
Central Hudson	4,962,793	98,360	4,864,433	3.4%	74.2%	x	5.5%	=	4.1%	\$551,000
Consolidated Edison	55,401,075	10,722,982	44,678,093	31.1%			40.5%		30.1%	\$4,057,364
New York State Electric and Gas	17,217,304	1,149,292	16,068,012	11.2%			12.9%		9.6%	\$1,292,346
Niagara Mohawk	33,986,467	4,098,738	29,887,729	20.8%			30.1%		22.3%	\$3,015,473
Orange and Rockland	4,122,410	28,326	4,094,084	2.8%			4.1%		3.0%	\$410,746
Rochester Gas and Electric	7,290,413	123,701	7,166,712	5.0%	6.9%	5.1%	\$691,255			
Long Island Power Authority	18,801,000	696,124	18,104,876	12.6%	12.6%			12.6%	\$1,698,947	
New York Power Authority	18,999,198		18,999,198	13.2%	13.2%			13.2%	<u>\$1,782,869</u>	
	160,780,660		143,863,137	100.0%	100.0%		100.0%	100.0%	\$13,500,000	

The following table summarizes the approved budget and cumulative activity through September 30, 2023.

Table 4. IEDR Budget Allocation for Phase 1

Integrated Energy Data Resources (a)
 Approved Budget and Itemized Expenses
 September 30, 2023

Table 1: Cumulative Activity through September 30, 2023

Phase 1	Cumulative Approved Budget	Expended (b)	Encumbered (c)	Expended + Encumbered	Expended +	Pre-encumbered Contracts (d)	Pre-encumbered Solicitations (d)	Expended +	Expended +	Uncommitted
					% of Total			Encumbered +	Pre-encumbered	
Administration Costs as Project Sponsor	1,500,000	819,009	215,694	1,034,703	69.0%	-	-	1,034,703	69.0%	465,297
Procured Resources	12,000,000	7,836,565	4,034,276	11,870,842	98.9%	-	-	11,870,842	98.9%	129,158
Total	13,500,000	8,655,575	4,249,970	12,905,545	95.6%	-	-	12,905,545	95.6%	594,455

- (a) Case 20-M-0082: Proceeding on Motion of the Commission Regarding Strategic Use of Energy Related Data. Order Implementing an Integrated Energy Data Resource, issued and effective February 11, 2021.
- (b) Expended funds include contractor invoices processed for payment by NYSERDA.
- (c) Encumbered funds include remaining funds obligated under a contract or purchase order.
- (d) Pre-Encumbered funds include planned funding for contracts awarded and under negotiation; and planned funding under active development through open solicitations with upcoming proposal due dates.

All IEDR program-related expenditures are and will be managed by the Program Sponsor in compliance with NYSERDA’s budget and accounting policies and principles.

For a full overview of the projected costs of the IEDR, please refer to the Updated PSIP.

4 Program Plans for 2023

Priorities for the remainder of 2023 include continuing to conduct sprint cycles that will result in additional 3–5 use cases for incorporation into the MVP, implementing newly established operational features within the Advisory Group, preparing to file the Phase 1 summary report, and declaring the MVP of the IEDR and Phase 1 of the IEDR Program complete.

Within Q3 2023, changes to the Phase 1 use case development scope occurred. Prior to the recent changes in use case development scope, each of the following MVP use cases were anticipated to be fully completed for the MVP release:

- DER Siting—Environmental, Community, Terrain, Land, and Property Assessment
- EIAT (Electronic Infrastructure Assessment Tool) Hosting Capacity & DER Map Enhancements
- Find and Filter Rate Options Across NYS IOU Utilities
- Access to Basic Rate Data and Tariff Book for Individual Rate
- Efficient and Effective Access to Existing Customer Billing Data

Changes to the MVP scope most significantly affect the “Efficient and Effective Access to Existing Customer Billing Data” use case. Full functionality of the use case “Efficient and Effective Access to Existing Customer Billing Data” has been delayed. However, development of a use case sandbox environment will be complete at the time of the MVP release. The sandbox environment will allow users to explore the “Efficient and Effective Access to Existing Customer Billing Data” use case functionality but without production-level data sets (i.e., only sample dummy data will be available). The full functionality of this use case will be made available in Phase 2 of Program development.

The remaining 4 MVP use cases (DER Siting—Environmental, Community, Terrain, Land, and Property Assessment; EIAT (Electronic Infrastructure Assessment Tool) Hosting Capacity & DER Map Enhancements; Find and Filter Rate Options Across NYS IOU Utilities; Access to Basic Rate Data and Tariff Book for Individual Rate) will be completed and delivered with full functionality at the time of the MVP release.

To backfill the scope of MVP use case development, alternative features were identified for development by the Program Development Team and selected in consultation with the Steering Committee. The supplemental features and data sets slated for MVP release are:

- Rooftop Area Filter
- Landform Feasibility Filter
- Minded Land Filter
- Battery Energy Storage Hosting Capacity
- EVSE Load Capacity

The alternative MVP features (Rooftop Area Filter, Landform Feasibility Filter, Minded Land Filter, and Battery Energy Storage Hosting Capacity), will be added to the MVP scope as additional components of the “EIAT (Electronic Infrastructure Assessment Tool) Hosting Capacity & DER Map Enhancements” use case. The alternative MVP feature “EVSE Load Capacity” will function as a platform feature independent of a complete MVP use case. However, the “EVSE Load Capacity” feature represents an important and foundational feature of the “Accelerating Electric Vehicle (EV) Siting and Program Opportunities” use case, which is slated for development in Phase 2.

Priorities for Phase 2 of IEDR Program development have been drafted and were incorporated in the Phase 2 proposal filed on May 12, 2023. Expanded details regarding proposed Program priorities beyond 2023 are detailed in the Phase 2 proposal, which at the publishing of this report was still under Commission review.

5 Program Risk Assessment and Mitigation Plan

As stated in the PSIP and as outlined in section 5.5 of the IEDR Whitepaper:

The Program Manager will organize and conduct the activities—including regular consultations with NYSERDA—needed to facilitate the timely anticipation, identification, and mitigation of risks that could hinder or prevent successful IEDR implementation and provide the approach to enable NYSERDA to provide timely communication of risks with the Steering Committee.

With the commencement of Phase 1, a comprehensive risk assessment and mitigation plan with extensive tracking has commenced. The Program Manager is actively coordinating with all external partners to capture and mitigate risks in accordance with the Risk Management Plan. At this time, there are two “high” severity risks identified. Figure 1 depicts an overview of the Risk Management Plan. Table 5 provides an overview of the “high” and “critical” IEDR Program Risks identified as of September 30, 2023. Within the context of Figure 1, PM&C is defined as Program Management and Control as performed by the Program Manager.

Figure 1. IEDR Risk Management Plan Overview

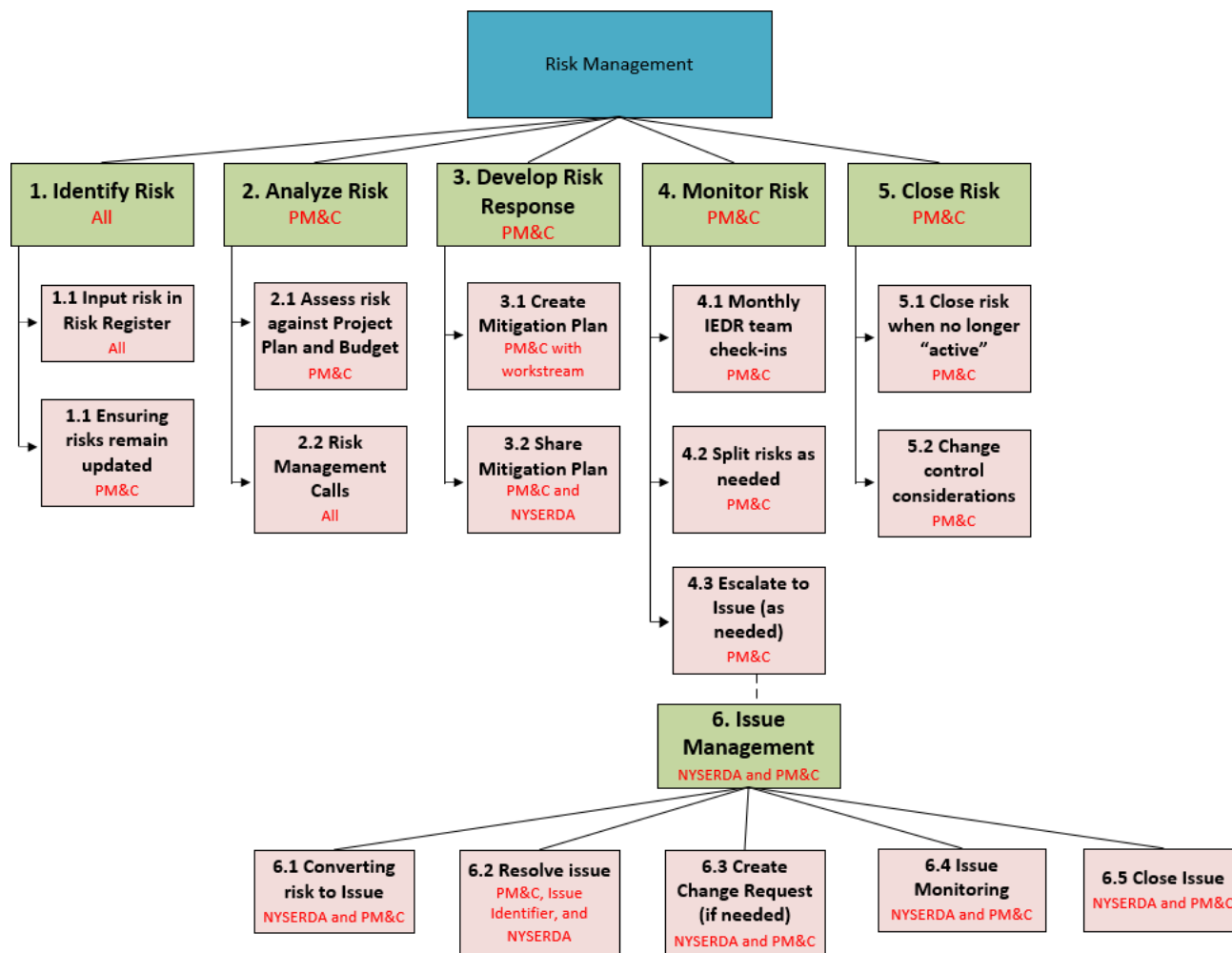


Table 5. High and Critical Risks to the IEDR Program as of September 30, 2023

Risk Description	Impact Area(s)	Risk Severity	Mitigation Approach
If registered users of the IEDR platform are required to be data ready certified, then there is a risk that some MVP functionality will be delayed if IEDR and Data Access Implementation Plan timelines are not aligned.	Schedule	High	Continue to prioritize the development of the Data Access Framework and ensure alignment between program contributors.
Misalignment with utilities could delay conversations around the transfer of confidential information and data sharing agreements between the Development Team and utilities.	Schedule	High	Continue to prioritize conversations surrounding confidential information and data sharing agreements between program contributors.

Appendix A. Completed Milestones to Date

Milestone	Program Topic	Date Completed
Program Manager RFP response submission deadline.	Program Manager	July 1, 2021
Program Charter adopted by Utility Coordination Group.	Charter	July 12, 2021
Initial use case comments from stakeholder response deadline.	Stakeholder Engagement	July 23, 2021
Program Charter adopted by IEDR Steering Committee.	Charter	August 6, 2021
Initial meeting of the Advisory Group.	Advisory Group	August 17, 2021
Program Manager contract executed, and work commenced.	Program Manager	September 28, 2021
Utility Data Advisor contract executed, and work commenced.	Utility Data Advisor	September 30, 2021
Updated Program Sponsor Implementation Plan filed.	Reporting	October 1, 2021
IEDR Program Dashboard operational.	Reporting	October 31, 2021
First quarterly report filed.	Reporting	October 21, 2021
Program Charter to be adopted by the Advisory Group.	Charter	October 21, 2021
General Stakeholder Engagement Meeting (Virtual use case stakeholder event).	Stakeholder Engagement	November 15, 2021
Stakeholder Engagement and Communication Plan drafted and finalized.	Stakeholder Engagement	October 29, 2021
Outreach to organizations that submitted use cases and may be aligned with prioritized use cases.	Stakeholder Engagement	Started Q4, 2021, as anticipated.
Use case interviews to assist in user story and user journey development.	Stakeholder Engagement	Started Q4, 2021, as anticipated.
Workshops/focus groups for each use case to validate user stories and user journeys.	Stakeholder Engagement	Started Q4, 2021, as anticipated.
Develop draft procurement documentation for IEDR Development Team.	Solution Architect + Development RFP	December 31, 2021
IEDR Utility Data Assessment completed.	Utility Coordination Group	December 2021
Issue RFP for Solution Architect + Development Contractor teaming arrangement and related services.	Solution Architect + Development RFP	March 25, 2022
Contract with Solution Architect + Development Team executed, and work commences.	Solution Architect + Development RFP	Completed Q4 2022—Deviation (Originally anticipated Q2 2022).
Sprint cycles focused on converting user stories/journeys for 3-5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Completed Q1 2023—Deviation (Originally anticipated Q4 2022).
Final round of data access/security review and User Acceptance Testing of the IEDR's first public iteration.	Public Iterations of IEDR	Completed Q1 2023—Deviation (Originally anticipated Q4 2022).
First public iteration of the IEDR released.	Public Iterations of IEDR	Completed Q1 2023— Deviation (Originally anticipated Q4 2022).
Phase 2 proposal filed.	Reporting	Completed May 12, 2023— Deviation (Originally anticipated January 15, 2023).

Endnotes

- ¹ Case 20-M-0082, Proceeding on Motion of the Commission Regarding Strategic Use of Energy Related Data, Order implementing an integrated Energy Data Resource, issued and effective February 11, 2021. <https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId={3CDC0522-7F50-49E1-A053-EA236B3DED10}>
- ² Case 20-M-0082, Proceeding on Motion of the Commission Regarding Strategic Use of Energy Related Data, Department of Public Service Whitepaper Recommendation to implement an integrated Energy Data Resource, May 29, 2021. <http://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId={43298F6A-3CA4-435F-BC9D-6DEF6F575836}>
- ³ The IEDR Order, P.33.
- ⁴ Case 20-M-0082, Proceeding on Motion of the Commission Regarding Strategic Use of Energy Related Data, Order Adopting a Data Access Framework and Establishing Further Process, April 15, 2021. <https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId={A228D385-3E0E-41BC-A433-8ABD62F8A6E4}>
- ⁵ Case 20-M-0082, Proceeding on Motion of the Commission Regarding Strategic Use of Energy Related Data, Department of Public Service Staff Whitepaper Regarding a Data Access Framework, May 29, 2021. <https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId={0375BBDD-5F71-44E0-A897-9BE2AD5F2A0E}>
- ⁶ Phase 2 implementation is subject to the commission's adoption of the Phase 2 proposal.
- ⁷ Case 20-M-0082, Proceeding on Motion of the Commission Regarding Strategic Use of Energy Related Data, Updated Program Sponsor Implementation Plan October 1, 2021. <https://documents.dps.ny.gov/public/Common/ViewDoc.aspx?DocRefId={B9BC09C2-F8F1-43B4-8CF5-D90C10C6AD2C}>
- ⁸ These numbers differ from those originally published in the integrated Energy Data Resource Initial Program Sponsor Implementation Plan. The update reflected here and in the Updated Program Sponsor Implementation Plan disaggregates NYPA load from the loads of the investor-Owned Utilities and presents the adjusted Bill as You Go allocation. Phase 2 implementation is subject to the commission's adoption of the Phase 2 proposal.

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