

Integrated Energy Data Resource (IEDR) Program Quarterly Report through December 31, 2023

Final Report | January 2024



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

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Integrated Energy Data Resource (IEDR) Program Quarterly Report through December 31, 2023

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Integrated Energy Data Resource (IEDR) Program Quarterly Report through December 31, 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 24–30 months of the work’s commencement by the Program Manager (on or about April 1, 2024).
- 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 30–36 months after the completion of Phase 1 (on or about July 30, 2026).

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 Q4 2023 the Integrated Energy Data Resource (IEDR) Program Team completed the program milestone “sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes.” The completion of this milestone resulted in the development of an additional 5 uses cases for the IEDR, for a total of 8 uses cases that have been developed during Phase 1 of the IEDR Program. While 8 use cases have been developed in Phase 1 of the IEDR Program, the public launch of the IEDR Minimum Viable Product (MVP) and the full scope of the corresponding MVP use cases have been delayed in order to ensure a more approachable and refined IEDR user experience.

The following MVP use cases have been developed and continue to be slated for the upcoming MVP release:

- DER Siting—Environmental, Community, Terrain, Land, and Property Assessment
- Electronic Infrastructure Assessment Tool (EIAT) Hosting Capacity and DER Map Enhancement
- Access to Basic Rate Plan Details
- Filterable and Accessible Rate Plans Across NYS IOU Utilities
- Efficient and Effective Access to Existing Customer Billing Data (Sandbox)

More details on the MVP release and the completion of the related Phase 1 program milestones will be made available in the Q1 2024 report.

Despite the delayed launch of the MVP, the completion of Phase 1 of the IEDR Program remains in line with the IEDR Program schedule that is required by the IEDR Order. The IEDR Order states that “Phase 1 shall be completed in 24–30 months” after the start of the Program Manager’s work. Thirty months from the effective date of the Program Manager’s contract is April 1, 2024, at which point Phase 1 activities are anticipated to be complete.

Table 1 provides an overview of completed and in-progress milestones during the fourth quarter of 2023. Milestones are established through the Updated Program Sponsor Implementation Plan (PSIP), which was filed on October 1, 2021.⁶ 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—Fourth 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	Q4 2023	Completed—With deviation (Originally anticipated Q2 2023–Q3 2023).
Outreach to organizations that submitted use cases and may be aligned with prioritized use cases.	Stakeholder Engagement	Ongoing through Phase 1 and 2	Completed for IPV and MVP— Ongoing for Phase 2 use cases.
Use case interviews to assist in user story and user journey development.	Stakeholder Engagement	Ongoing through Phase 1 and 2	Completed for IPV and MVP— Ongoing for Phase 2 use cases.
Workshops/focus groups for each use case to validate user stories and user journeys.	Stakeholder Engagement	Ongoing through Phase 1 and 2	Completed for IPV and MVP— Ongoing for Phase 2 use cases.

1.2 Future Milestones

The delay of the launch of the MVP correspondingly delays the completion of 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” from Q4 2023 to Q1 2024. Additionally, filing of the Phase 1 Status and Summary Report is now expected to be delayed from the initially anticipated date of July 30, 2023, to April 30, 2024. Further detailed information on the adjusted completion timeframes and outcomes of these program milestones will be made available in the Q1 2024 report.

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
Steering Committee reviews and approves declaration of IEDR MVP.	Public Iterations of IEDR	Q1 2024	In progress—With delay (Originally anticipated Q4 2023).
IEDR MVP declared (5–10 use cases deployed) and end of Phase 1.	Public Iterations of IEDR	Q1 2024	In progress—With delay (Originally anticipated Q4 2023).
Phase 1 Status and Summary Report filed.	Reporting	April 30, 2024	In progress—With delay (Originally anticipated July 30, 2023).
Outreach to organizations that submitted use cases and may be aligned with prioritized use cases.	Stakeholder Engagement	Ongoing through Phase 1 and 2	Completed for IPV and MVP— Ongoing for Phase 2 use cases.
Use case interviews to assist in user story and user journey development.	Stakeholder Engagement	Ongoing through Phase 1 and 2	Completed for IPV and MVP— Ongoing for Phase 2 use cases.
Workshops/focus groups for each use case to validate user stories and user journeys.	Stakeholder Engagement	Ongoing through Phase 1 and 2	Completed for IPV and MVP— Ongoing for Phase 2 use cases.
IEDR Platform User Conference	Stakeholder Engagement	Phase 2	Not Started – Delayed (Originally anticipated in Phase 1, Q2-Q3 2023).

1.2.1 Future Potential Schedule Deviations and Planned Response Activities

Milestones	Program Topic	Date Expected	Schedule Deviation
Steering Committee reviews and approves declaration of IEDR MVP & IEDR MVP declared (5–10 use cases deployed) and end of Phase 1	Public Iterations of the IEDR	Q1 2024	In progress—With delay (Originally anticipated Q4 2023).

Milestones: Steering Committee reviews and approves declaration of IEDR MVP; IEDR MVP declared (5–10 use cases deployed) and end of Phase 1.

Schedule impact: 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” were delayed from their originally anticipated completion timeframe of Q4 2023 to Q1 2024, without further deviation to the schedule anticipated.

Summary: In Q4 2023 the IEDR Program Team completed the program milestone “sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes,” which resulted in an additional 5 use cases, that represent the MVP and are staged for public release. Prior to public release of the MVP, the Program Team and Steering Committee determined that the MVP launch should be delayed to address newly identified but essential user experience needs within the platform and in turn create a more refined and approachable IEDR user experience. To accommodate for the additional time needed for the development of IEDR platform refinements, the two 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” have been delayed from Q4 2023 to Q1 2024.

Executed Response Activities: The IEDR Program Team has collected essential feedback and recommendations from the Steering Committee and stakeholders and created a roadmap to complete several platform improvements. Feedback that was obtained has been prioritized into two categories:

1. The remainder of platform development items that are required for the completion of the MVP and Phase 1 of the program.
2. Platform development items that will be iteratively developed and delivered on in Phase 2 of the program.

Items that are required for the completion of the MVP and Phase 1 of the program have been prioritized and are being incorporated into a final refinement of MVP platform functionality. Once this final refinement of platform functionality is complete, the IEDR Program Team will engage the Steering Committee and perform a full review of the MVP. To demonstrate that the MVP addresses the previously obtained feedback, the Steering Committee review of the MVP will be led by the Program Team and include a detailed walk-through of the platform and demonstrate refined user-centric platform functionality. This final walk-through is intended to result in the completion of the program milestone “Steering Committee reviews and approves declaration of IEDR MVP” and the coupled program milestone “IEDR MVP declared (5–10 use cases deployed) and end of Phase 1”). Expanded details on the planning and execution of these program milestones will be contained within the Q1 2024 report.

1.2.2 Future Potential Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
Phase 1 Status and Summary Report filed.	Reporting	April 30, 2024	In progress - With deviation, (Originally expected July 30, 2023).

Milestone: Phase 1 Status and Summary Report filed.

Schedule impact: The program milestone “Phase 1 Status and Summary Report filed” is expected to be delayed from its initially anticipated completion time frame of July 30, 2023, to April 30, 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”. The currently expected completion time frame for this milestone is now April 30, 2024, which will better align with the completion of Phase 1 operations. The completion date of April 30, 2024, represents the second deviation to the expected completion date of this milestone. Originally anticipated to be filed on July 30, 2023, the first Request for Extension for the Phase 1 Status and Summary Report was submitted to and approved by the

Commission on June 21, 2023. After the first Request for Extension was approved, the filing date of the Phase 1 Status and Summary Report was expected to be January 31, 2024. However, due to the delay of completion of Phase 1 program milestones, a second Request for Extension for the Phase 1 Status and Summary Report was filed on January 12, 2024.

Planned Response Activities: On January 12, 2024, NYSERDA filed the second Request for Extension from the Commission on the timeline for filing the IEDR Phase 1 Status and Summary Report, until April 30, 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 address newly identified but essential user experience needs within the platform, creating a more refined and approachable IEDR user experience, and to submit a Phase 1 report that includes the most comprehensive overview of Phase 1 activities possible upon completion of Phase 1 of the IEDR.” On January 25, 2024, the Commission approved the Request for Extension.

2 Stakeholder Engagement

2.1 Stakeholder Engagement 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 Q4 2023 included employing the revised (as of September 2023) approach to the Advisory Group. The new approach to Advisory Group structure and operations allows the IEDR Program Team to receive feedback on specific use cases, and their subsequent features, from the persona specific users that are associated with specific use cases. Q4 2023 key stakeholder engagement also included conducting cross departmental conversations and IEDR platform demonstrations within NYSERDA.

Direct engagement between IEDR users and the Development Team was 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 (<https://iedr.ideas.aha.io/>) allows IEDR users to provide asynchronous feedback regarding bugs, feature improvements, and requests for new data sets.

2.3 Advisory Group

As of September 2023, and previously documented in the Q3 2023 report, the IEDR Advisory Group was restructured to meet changing program needs.

A key component of the restructuring of the AG is the distinction between the two “tiers” which now make up membership participation. Tier 1 AG meetings consist of a grouping of key Tier 2 members and other program stakeholders, who attend quarterly AG meetings and are focused on broader program conversations and updates. More details on Tier 1 implementation and function will be made available in the Q1 2024 report.

Tier 2 of the revised AG, which facilitates the persona specific review of targeted use cases and their related features, convened twice in Q4 2023. Tier 2 Advisory Group persona categories are bucketed groups of individuals and organizations that represent the working interests of specific end-users.

Table 3. Tier 2 Advisory Group Persona Categories

Academia	Energy Service Entity (ESE)
Back-end user	Government
Community Based Organization (CBO)	Investors
Distributed Generation (DG)	Legal
Electric vehicle Supply Equipment (EVSE)	Utility

2.3.1 Record of Advisory Group Sessions as of Q4 2023

October 19, 2023 | Tier 2 AG Session

Use Case: Access to Basic Rate Data and Tariff Book for Individual Rates.

Personas Categories: Distributed Generation (DG), Energy Service Entity (ESE), and Government.

During this Tier 2 AG session, attendees reviewed the functionality of the Access to Basic Rate Data and Tariff Book for Individual Rate use case in the IEDR staging environment with the IEDR Program Team. Attendees provided feedback on specific features of this use case; feedback was recorded and taken under consideration for incorporation in IEDR platform development. Notable outcomes from this Tier 2 session included the rate and tariff service provider persona specific customization of the downloadable rate and tariff table.

October 26, 2023 | Tier 2 AG Session

Use Case: EIAT Hosting Capacity and DER Map Enhancements.

Personas Categories: Distributed Generation (DG), Community Based Organization (CBO), Energy Service Entity (ESE), and Government.

During this Tier 2 AG session, attendees reviewed the functionality of the EIAT Hosting Capacity and DER Map Enhancements use case in the IEDR staging environment with the IEDR Program Team. Attendees provided feedback on specific features of this use case; feedback was recorded and taken under consideration for incorporation in IEDR platform development. Notable outcomes from this Tier 2 session included the improved visual navigation of platform features, in the form of customizable opacity and ordering of map layers.

Currently, Phase 2 Tier 2 AG sessions are being planned in sync with the Phase 2 use case development roadmap. More details on Phase 2 Tier 2 AG sessions will be made available in the Q1 2024 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, NYSEERDA, 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.

2.4.2 Record of Weekly IEDR Utility Coordination Group Meetings as of Q4 2023

October 10, 2023 | Utility Coordination Group Meeting

During this UCG, the IEDR Program Team provided updates on utility data milestones and clarification on data dependencies for the MVP release.

October 24, 2023 | Utility Coordination Group Meeting

During this UCG, the IEDR Program Team summarized the recent Order directing the JU to share customer data and the draft timeline. Clarification was provided on data dependencies for the MVP release and utility data milestones were also discussed. The Access to Basic Rate Data and Tariff Book for Individual Rate Tier 2 AG session was also summarized and discussed.

November 7, 2023 | Utility Coordination Group Meeting

During this UCG, the IEDR Program Team provided updates on customer data transfer specifications, platform releases, and the related utility data milestones and their dependencies.

December 5, 2023 | Utility Coordination Group Meeting

During this UCG, the IEDR Program Team provided updates on platform releases and the related utility data milestones and their dependencies through December 2023. Issues surrounding customer data sharing consent authorization and network data disclaimers were also discussed.

December 19, 2023 | Utility Coordination Group Meeting

During this UCG meeting, the IEDR Program Team provided updates on releases, release related dependencies, and utility related milestones. The plan for addressing data gaps within the IEDR platform, and challenges with rate plan data were also discussed.

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.⁷

Table 4. IEDR Cost Allocation

IEDR Cost Allocation										
IOU	Delivery Service Load ¹	2019			%		BAYG Allocation%	=	IEDR Allocation%	
		NYPA Load Delivered by IOU	IOU Load net of NYPA Load							
Central Hudson	4,962,793	98,360	4,864,433	3.4%	74.2%	x	=	4.1%	\$551,000	
Consolidated Edison	55,401,075	10,722,982	44,678,093	31.1%				30.1%	\$4,057,364	
New York State Electric and Gas	17,217,304	1,149,292	16,068,012	11.2%				9.6%	\$1,292,346	
Niagara Mohawk	33,986,467	4,098,738	29,887,729	20.8%				22.3%	\$3,015,473	
Orange and Rockland	4,122,410	28,326	4,094,084	2.8%				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 December 31, 2023.

Table 5. IEDR Budget Allocation for Phase 1

Integrated Energy Data Resources (a) Approved Budget and Itemized Expenses December 31, 2023										
Table 1: Cumulative Activity through December 31, 2023										
Phase 1	Cumulative		Encumbered (c)	Expended + Encumbered	Expended + Encumbered as a % of Total Budget	Pre-encumbered Contracts (d)	Pre-encumbered Solicitations (d)	Expended + Encumbered	Expended + Encumbered + Pre-encumbered as a % of Total Budget	Uncommitted
	Budget	Expended (b)								
Administration Costs as Project Sponsor	1,500,000	1,018,389	170,020	1,188,409	79.2%	-	-	1,188,409	79.2%	311,591
Procured Resources	12,000,000	10,374,129	1,496,713	11,870,842	98.9%	-	-	11,870,842	98.9%	129,158
Total	13,500,000	11,392,518	1,666,733	13,059,250	96.7%	-	-	13,059,250	96.7%	440,750

(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 2024

In early Q1 2024 the Program Team will focus program efforts on refining the IEDR platform to receive Steering Committee approval to launch the MVP and completing the related remaining Phase 1 program milestones. While the IEDR Program Team completes the remaining Phase 1 program milestones in Q1 2024, the IEDR Program Team is simultaneously planning and preparing for Phase 2 of program operations and development. Phase 1 development and the launch of the IEDR MVP are anticipated by the end of Q1 2024; Phase 2 development is expected to commence in Q2 2024.

On January 18, 2024, NYSERDA welcomed the news that the New York State Public Service Commission approved funding for the second phase of the IEDR Program. Phase 2 funding will support the development of an additional 40+ use cases, that will assist a broad spectrum of IEDR Program stakeholders with advancing New York's Climate Leadership and Community Protection Act (CLCPA) goals. Expanded details regarding proposed program priorities beyond Phase 1 are detailed in the (approved) Phase 2 proposal and will also be elaborated on within the Q1 2024 program report.

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. In Q4 2023, there was one “high” severity risks identified. This risk was resolved in early Q1 2024, and additional information will be provided in the Q1 2024 report. 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 December 31, 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

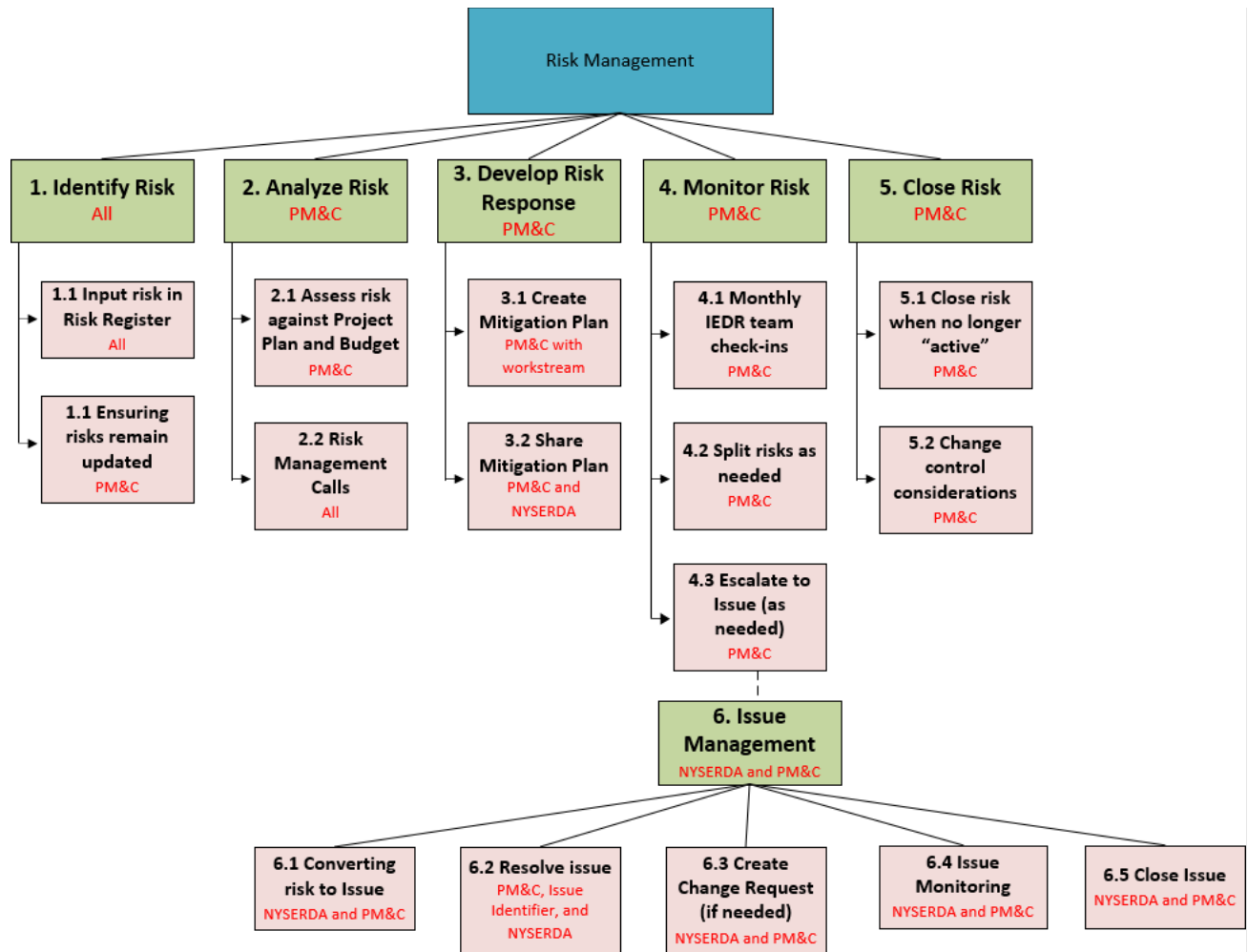


Table 6. High and Critical Risks to the IEDR Program as of December 31, 2023

Risk Description	Impact Area(s)	Risk Severity	Mitigation Approach
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. (Note: this risk was active in Q4 2023 but was resolved in early Q1 2024.)

Appendix A. Completed Milestones to Date

Table A-1. 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).
Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Completed Q4 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 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}>
- ⁷ 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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