

Integrated Energy Data Resource Program Quarterly Report through December 31, 2022

Final Report | January 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.

Integrated Energy Data Resource Program Quarterly Report through December 31, 2022

Final Report

Prepared by:

New York State Energy Research and Development Authority

Albany, NY

January 2023

Abstract

The Integrated Energy Data Resource (IEDR) 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

Table of Contents

NYSERDA Record of Revision	i
Abstract	iii
Keywords.....	iii
List of Tables.....	iv
Background.....	v
1 Program Status	1
1.1 Completed Milestones.....	1
1.2 Future Milestones.....	1
1.3 Quarter 4 2022 Schedule Deviations and Planned Response Activities	3
1.4 Future Potential Schedule Deviations and Planned Response Activities	3
2 Stakeholder Engagement.....	6
2.1 Background	6
2.2 Stakeholder Engagement Status	6
2.3 Advisory Group.....	7
2.4 Utility Coordination Group	7
3 Use and Status of Funding	9
4 Program Plans for 2023	11
5 Program Risk Assessment and Mitigation Plan	12
Appendix A. Completed Milestones to Date.....	A-1
Endnotes	EN-1

List of Tables

Table 1. Milestone Status—Fourth Quarter 2022 1

Table 2. Future Milestones..... 2

Table 3. IEDR Cost Allocation..... 9

Table 4. IEDR Budget Allocation for Phase 1 10

Table 5. High and Critical Risks to the IEDR Program as of December 31, 2022 13

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 recent 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 Integrated Energy Data Resource (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 ten 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).

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

Table 1 provides an overview of completed and in-progress milestones during the fourth quarter of 2022. 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. Q4 2022 milestones were completed as noted in Table 1 below.

Table 1. Milestone Status—Fourth Quarter 2022

Milestone	Program Topic	Date Complete/ Date Expected	Status
Contract with Solution Architect + Development team executed, and work commences.	Solution Architect + Development RFP	Q4 2022	Completed —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	Q4 2022—Q1 2023	Started—Deviation (Originally anticipated Q2—Q3 2022)

1.2 Future Milestones

Previous milestone projections slated the IPV release for Q4 2022. However, achievement of the milestone “First public iteration of the IEDR released” was delayed from Q4 2022 to Q1 2023. The release of the IEDR Initial Public Version (IPV) has been delayed because of deviations in Development Team on-boarding (see milestone: Contract with Solution Architect + Development team executed, and work commences). Since this milestone deviation occurred, the Program Manager onboarded the Solution Architect and Development team; together they are collaboratively reviewing and working the milestone schedule in the most efficient manner, including an in-depth engineering review of IPV use cases, the creation of the IPV Roadmap, and the completion of the initial development sprints that will ensure the delivery of the IPV by the end of Q1 2023.

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 3-5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Q4 2022 - Q1 2023	Started—Deviation (Originally anticipated Q2— Q3 2022)
Final round of data access/security review and User Acceptance Testing of the IEDR’s first public iteration.	Public Iterations of IEDR	Q1 2023	Not Started—Deviation expected (Originally anticipated Q3 2022)
First public iteration of the IEDR released.	Public Iterations of IEDR	Q1 2023	Not Started— Deviation expected (Originally anticipated Q4 2022)
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 – Q3 2023	Not Started—Deviation not expected
Phase 2 proposal filed.	Reporting	May 1, 2023	Started—Deviation expected (Originally Anticipated January 15, 2023)
IEDR Platform User Conference	Stakeholder Engagement	Q2 2023	Not Started—Deviation not expected
Phase 1 summary report filed	Reporting	July 30, 2023	Not Started—Being assessed
Steering Committee reviews and approves declaration of IEDR MVP.	Public Iterations of IEDR	Q3 2023	Not Started—Deviation not expected
IEDR MVP declared (5-10 use cases deployed) and end of Phase 1.	Public Iterations of IEDR	Q4 2023	Not Started—Deviation not expected

1.3 Quarter 4 2022 Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
First public iteration of the IEDR released.	Public Iterations of IEDR	Q1 2023	In progress—Deviation (Originally Q4 2022)

- **Milestone:** “First public iteration of the IEDR released.”
- **Schedule impact:** Anticipated completion date of the IPV has changed from Q4 2022 to Q1 2023.
- **Summary:** The release of the IEDR Initial Public Version (IPV) has been delayed, as IEDR development (Sprint 1) was delayed, because of deviations in Development Team on-boarding (see milestone: Contract with Solution Architect + Development Team executed, and work commences).
- **Executed Response Activities:** The Program Manager onboarded the Solution Architect and Development Team and is collaboratively reviewing and working the milestone schedule in the most efficient manner to ensure the first public iteration of the IEDR is released by the end of Q1 2023. Specifically, the IPV Roadmap and Sprint 1 were completed in Q4 2022, creating the foundation for implementing IPV use case requirements that will deliver the IPV by the end of Q1 2023.

1.4 Future Potential Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
Phase 2 proposal filed.	Reporting	May 2023	In progress—Deviation (Originally January 2023)

- **Milestone:** Submission of Phase 2 proposal.
- **Schedule impact:** The anticipated submission date of the Phase 2 proposal was delayed from January 2023 to May 2023, without further deviations to the schedule.
- **Summary:** Due to the dynamic and complex nature of project discussions between the Development Team, stakeholders, utilities, and NYSERDA, and the overall need to establish Phase 2 funding for the success of the IEDR, additional time is required for filing the Phase 2 proposal. An extension of the timeline for filing the IEDR Phase 2 Proposal, until May 1, 2023, was submitted to and received by the Public Service Commission on January 3, 2023. The Phase 2 proposal extension request was granted approval by the Public Service Commission on January 5, 2023.

- Planned Response Activities:** NYSERDA has presented the need for an extension on Phase 2 proposal filing to the IEDR Steering Committee and filed a Phase 2 Proposal Extension Request with the Public Service Commission. The IEDR Steering Committee agreed with the need for the extension request, and the Public Service Commission has approved the Phase 2 proposal extension request, effectively extending the timeline for the IEDR Phase 2 Proposal until May 1, 2023. The Phase 2 proposal extension until May 1, 2023, allows adequate time to onboard the Development Team, conduct additional stakeholder engagement, (including an in-person Utility Coordination Group (UCG) Meeting planned for January 20, 2023 and a General Stakeholder Engagement Meeting planned for February 9, 2023), gather informed input on Phase 1 progress and Phase 2 use cases, identify opportunities for accelerating use cases, obtain clarification on utility data sharing issues, coordinate with utilities surrounding Phase 2 utility budgets and engage with the utilities on Phase 2 costs after data sharing issues are resolved.

Milestone	Program Topic	Date Expected	Schedule Deviation
Sprint cycles focused on converting user stories/journeys for 3-5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Q4 2022—Q1 2023	Started—Deviation (Originally anticipated Q2—Q3 2022)

- Milestone:** Sprint cycles focused on converting user stories/journeys for 3–5 use cases into functional IEDR prototypes.
- Schedule impact:** The start of this activity has been delayed from Q3 2022 to Q4 2022- Q1 2023.
- Summary:** IEDR development (Sprint 1) was delayed by the deviation in development team on-boarding (see milestone: Contract with Solution Architect + Development team executed, and work commences).
- Planned Response Activities:** The Program Manager has initiated a collaborative, agile management tool, and created wireframes for the initial 3–5 use cases to allow the Development Team to begin creating functional IEDR prototypes immediately after onboarding. The Program Manager will continue to provide technical support throughout the early stages of integrating the Solution Architect + Development Team into the program.

Milestone	Program Topic	Date Expected	Schedule Deviation
Final round of data access/security review and User Acceptance Testing of the IEDR's first public iteration.	Public Iterations of IEDR	Q1 2023	Not Started—Deviation expected (Originally anticipated Q3 2022)

- **Milestone:** Final round of data access/security review and User Acceptance Testing of the IEDR's first public iteration.
- **Schedule impact:** The start of this activity is anticipated to be delayed to Q1 2023.
- **Summary:** The final testing and validation of the IEDR Initial Public Version (IPV) has been delayed, as IEDR development (Sprint 1) was postponed because of deviations in Development Team on-boarding (see milestone: Contract with Solution Architect + Development team executed, and work commences).
- **Planned Response Activities:** Final rounds of data access/security review and User Acceptance Testing of the IEDR's first public iteration will be complete Q1 2023 as originally anticipated for Q3 2022. No additional action is anticipated to ensure the completion of the IPV in Q1 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 Q4 2022 focused on introductory conversations with the Development Team and stakeholders through the AG and UCG, and the creation and distribution of the IEDR Phase 2 Use Case Prioritization Survey. Utility engagement primarily centered around understanding data transfer mechanisms and conducting deep dives regarding the IPV use cases. In support of the Phase 2 proposal, the program management team developed and deployed a Use Case Prioritization Survey with the goal of gathering input from a broad range of key IEDR stakeholders, potential users, and subject-matter experts, to inform IEDR Phase 2 use case prioritization, data requirements, feasibility considerations, and enable

better understanding of use case impact. The results of this survey will enable the team to better understand use case impact and feasibility considerations. Key insights will then be incorporated into future plans for the IEDR, including the IEDR Phase 2 Proposal. At the time of the Q4 report publication, initial survey responses have been received, but the survey continues to remain open, and stakeholders may continue to aggregate and submit their survey responses.

The IEDR Phase 2 Use Case Prioritization Assessment Survey may be accessed through this link: <https://deloitteurvey.deloitte.com/Community/se/3FC11B26605A6024>

2.3 Advisory Group

NYSERDA held one Advisory Group meeting during Q4 2022, on October 20th, in which the Development Team provided team introductions and described the planned process to streamline IPV development. In accordance with the Program Schedule, the meeting cadence of the Advisory Group was reduced starting in October 2022.

The November and December Advisory Group meetings were cancelled to allow the Development Team to focus on the IPV. This decision was vetted by both the IEDR Advisory Group and the IEDR Steering Committee. Moving forward, Advisory Group meetings will coincide with new releases of the IEDR, to allow Advisory Group members to comment on functional software. The next meeting of the Advisory Group will coincide with the schedule for the first public iteration of the IEDR; Advisory Group calls are tentatively scheduled in January and March of 2023.

2.4 Utility Coordination Group

NYSERDA 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 potential Data Access Framework. 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.

Beginning in Q4 2022, the UCG approach transitioned to focus on two levels of engagement with the UCG: a 30- to 60-minute biweekly UCG meeting, followed up by targeted meetings with individual utilities. This updated approach, led by the Development Team, is intended to focus on deep diving into specific topics in support of the IPV. An in-person Utility Coordination Group meeting is planned for Q1 2023 on January 20, 2023, in Albany, N.Y. his in-person Utility Coordination Group meeting is intended to strengthen communication channels and facilitate collaboration on 2023 goals.

Record of Weekly IEDR Utility Coordination Group (UCG) Meetings as of Q4 2022:

- Weekly IEDR UCG (October 18, 2022)—Discussed IPV and MVP program goals and reviewed IEDR platform architecture.
- Weekly IEDR UCG Office Hours (October 20, 2022)—Discussed the “what (use case), “how” (data), and “why” (stakeholder feedback) of the IEDR, IPV data transfer, IPV release schedule, DAF IEDR interdependencies and coordinated process expectations within agile development process.
- Weekly IEDR UCG (October 25, 2022)—Discussed Geospatial data exchange options.
- Weekly IEDR UCG (November 8, 2022)—Discussed Phase 2 proposal, recapped on: geospatial data deep dive, installed and planned DER data, and data transfer milestones for IPV Roadmap.
- Weekly IEDR UCG (November 22, 2022)—Discussed data transfer milestones for IPV roadmap, utility data transfer status, and tariff and rate data as they pertain to IPV scope.
- Weekly IEDR UCG (December 6, 2022)—Discussed IPV roadmap, utility data transfer status, tariff, and rate data as they pertain to IPV scope.
- Weekly IEDR UCG (December 20, 2022)—Discussed status update regarding data deep dive session and data transfer progress and Phase 2 Utility Budget materials required for the Phase 2 proposal.

3 Use and Status of Funding

The IEDR Order established a budget of \$13.5 million for NYSERDA's Phase 1 efforts. The IEDR 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 3. 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	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%	\$1,782,869		
	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, 2022.

Table 4. IEDR Budget Allocation for Phase 1

Integrated Energy Data Resources (a) Approved Budget and Itemized expenses December 31, 2022										
Table 1: Cumulative activity through December 31, 2022										
Phase 1	Cumulative Approved Budget	Expended (b)	Encumbered (c)	Expended + Encumbered	Expended + Encumbered as a % of Total Budget	Pre-encumbered Contracts (d)	Pre-encumbered Solicitations (d)	Expended + Encumbered + Pre-encumbered	Expended + Encumbered + Pre-encumbered as a % of Total Budget	Uncommitted
Administration costs as Project Sponsor	1,500,000	469,723	351,974	821,697	54.8%	-	-	821,697	54.8%	678,303
Procured Resources	12,000,000	3,566,043	8,304,799	11,870,842	98.9%	-	-	11,870,842	98.9%	129,158
Total	13,500,000	4,035,766	8,656,773	12,692,539	94.0%	-	-	12,692,539	94.0%	807,461
(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 will be managed by the Program Sponsor in compliance with NYSERDA’s budget and accounting policies and principles.

The IEDR program experienced significant growth in expenditures in Q4 2022, as system development costs for software services related to the IEDR’s design, build, and operation were incurred. The IEDR program will provide more detail regarding these expenditures against baseline estimates in future reports.

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

4 Program Plans for 2023

As the program progresses in 2023, priorities for Q1 2023 will include: (1) sprint cycles focused on converting user stories/journeys for three to five use cases into functional IEDR prototypes; (2) continue to develop the Phase 2 proposal in accordance with the approved proposal extension request; (3) perform final rounds of data access/security review and User Acceptance Testing of the IEDR's first public iteration; (4) integrate stakeholder feedback to guide the specification of MVP use cases; and (5) complete development of the IPV by the end of Q1 2023, including release to the public.

Priorities for Phase 2 will be documented in the Q2 2023 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. At this time, there is 1 “high” severity risk 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 December 31, 2022. 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

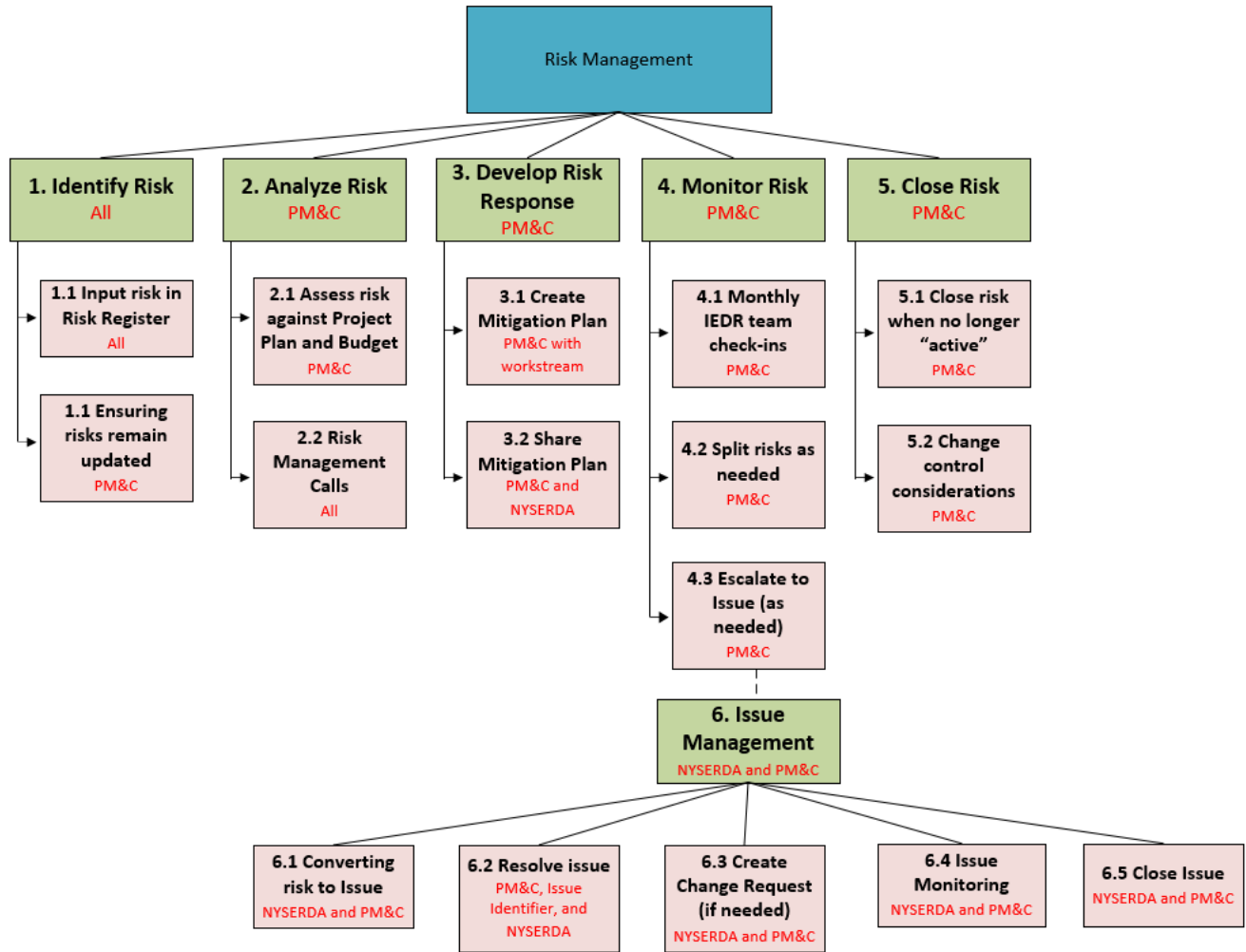


Table 5. High and Critical Risks to the IEDR Program as of December 31, 2022

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	advancements in the Data Access Framework and ensure alignment 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)

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.

NYSERDA, a public benefit corporation, offers objective information and analysis, innovative programs, technical expertise, and support to help New Yorkers increase energy efficiency, save money, use renewable energy, and reduce reliance on fossil fuels. NYSERDA professionals work to protect the environment and create clean-energy jobs. NYSERDA has been developing partnerships to advance innovative energy solutions in New York State since 1975.

To learn more about NYSERDA's programs and funding opportunities, visit nyserda.ny.gov or follow us on Twitter, Facebook, YouTube, or Instagram.

**New York State
Energy Research and
Development Authority**

17 Columbia Circle
Albany, NY 12203-6399

toll free: 866-NYSERDA
local: 518-862-1090
fax: 518-862-1091

info@nyserda.ny.gov
nyserda.ny.gov



NYSERDA

State of New York

Kathy Hochul, Governor

New York State Energy Research and Development Authority

Richard L. Kauffman, Chair | Doreen M. Harris, President and CEO