Integrated Energy Data Resource (IEDR) Program

Quarterly Report through March 31, 2023

NEW YORK STATE | 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 March 31, 2023

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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 in achieving the IEDR program's stated goals and objectives.

Keywords

Integrated Energy Data Resource, IEDR, use case, IEDR Advisory Group, AG, IEDR Steering Committee, Utility Coordination Group, UCG, Initial Public Version, IPV, Minimum Viable Product, MVP

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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's 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).

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 Q1 2023 the IEDR Development Team completed the milestones "Sprint cycles focused on converting user stories/journeys for 3–5 use cases into functional IEDR prototypes" and "Final round of data access/security review and User Acceptance Testing of the IEDR's first public iteration," which resulted in the launch of the Initial Public Version (IPV) of the IEDR on March 31, 2023, and the subsequent completion of the milestone "First public iteration of the IEDR released." The IEDR IPV includes the first three high-priority uses cases, which are the Large Installed DERs, Large Planned DERs (interconnection queue), and Consolidated Hosting Capacity Maps use cases. High-level functionality descriptions of use cases featured in the IPV are detailed below.

IPV Use Case Descriptions:

- Large Installed Distributed Energy Resources: This use case supports Energy Service Entities (ESE) and/or government staff members who want to view all the data that utilities have on installed DERs (e.g., over 300 kilowatt [kw]), so they can site new DERs or monitor the state of DER development in New York State. This use case also provides access to the necessary information pertaining to installed DERs including attributes, location, and status in a consistent format across the entire utility service territories.
- Large Planned Distributed Energy Resources (Interconnection Queue): This use case supports Energy Service Entities (ESE) and/or government staff members who want to view and monitor all the data utilities have on planned DERs (e.g., over 300 kw), so they can site new DERs or monitor the state of DER development in New York State. This use case also provides access to the necessary information that pertains to large planned DERs including attributes, location, and status in a consistent format across the entire utility service territories.
- Consolidated Hosting Capacity Maps: This use case supports DER developers, DER owners and/or utilities to view all hosting capacity maps for the entire State in one map view with consistent data, so that users can site new DERs and monitor the state of DER development in New York State accurately. Foundational functionality will be implemented in IPV, with enhancements to hosting capacity maps expected to be developed in future releases.

Table 1 provides an overview of completed and in-progress milestones during the first 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—First Quarter 2023

Milestone	Program Topic	Date Complete/ Date Expected	Status
Sprint cycles focused on converting user stories/journeys for 3–5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Q1 2023	Completed—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	Completed—Deviation (Originally anticipated Q4 2022).
First public iteration of the IEDR released.	Public Iterations of IEDR	Q1 2023	Completed—Deviation (Originally anticipated Q4 2022).

1.2   Future Milestones

After the successful release of the IPV on March 31, 2023, which included the launch of the first three high-priority uses cases, 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.

Due to previous program milestone delays, completion of the program milestone "Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes" is delayed from Q2 2023–Q3 2023 to Q2 2023–Q4 2023.

At this time, the Program Team is developing submission materials for the future milestone "Phase 2 Proposal Filed." The Phase 2 filing is scheduled to be submitted on May 1, 2023 and will include the Phase 2 budget proposal and the Phase 2 development roadmap.

The Program Team is drafting plans to execute the milestone "IEDR User Platform Conference," which is anticipated to take place in Q2 2023. Without the occurrence of an unexpected deviation, expanded details about the IEDR User Platform Conference will be contained within the Q2 2023 IEDR program report.

Due to previous program milestone delays, the program milestone "Phase 1 Summary Report" (that was originally slated for completion by July 30, 2023) is currently under review with an expected deviation to the completion time of July 30, 2023. Further details about an updated completion time frame for the "Phase 1 Summary Report" milestone will be contained within the Q2 2023 IEDR Program report.

Additionally, as a result of previous program milestone delays, 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.

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 to Q3 2023).
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	Q4 2023	Not Started—Under review, with deviation expected, originally anticipated July 30, 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.

1.2   Future Milestones

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

Milestone: Phase 2 proposal filed.

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 had 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 had approved the Phase 2 Proposal extension request, effectively extending the completion time frame for the IEDR Phase 2 Proposal until May 1, 2023. The Program Team continues to work toward the completion of the program milestone "Phase 2 Proposal filed," including gathering Phase 2 budget proposals and developing the Phase 2 development roadmap. Submission materials for the Phase 2 proposal are currently being drafted and refined for filing by May 1, 2023.

1.3 Future Potential Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
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).

Milestone: Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes.

Schedule impact: The anticipated completion time frame of the program milestone "Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes" has been delayed from Q2 2023–Q3 2023 to Q2 2023–Q4 2023.

Summary: Sprint cycles needed to convert user stories into functional use cases were required components of IPV development. Initial sprint cycles could not be completed prior to the onboarding of the Solution Architect + Development Team, which began in Q4 of 2022. Due to previous program milestone delays, completion of the program milestone "Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes" was delayed from Q2 2023–Q3 2023 to Q2 2023–Q4 2023.

Executed Response Activities: Once onboard, the Program Team identified which use cases created high value and were most feasibly implemented into the first public release of the IEDR. The Development Team then completed the initial sprint cycles and program milestones resulting in the implementation of three use cases, the successful release of the IPV, and work commencing on the program milestone "Sprint cycles focused on converting user stories/journeys for an additional 2–5 use cases into functional IEDR prototypes." 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.

1.4   Future Potential Schedule Deviations and Planned Response Activities

Milestone	Program Topic	Date Expected	Schedule Deviation
Phase 1 summary report filed.	Reporting	Q4 2023	Not Started–Under review, with deviation expected, originally expected July 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 2023.

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." Due to delays in Program Management and Program Development, completion of the program milestone "Phase 1 summary report" was delayed from the originally expected completion time frame of July 30, 2023. The currently expected completion time frame for this milestone is expected to align with Phase 1 operation and completion in Q4 2023.

Planned Response Activities: To allow for a more complete Summary Report, the Program Team recommends that the Report be filed closer to the expected completion of Phase 1, in Q4 2023. With Steering Committee approval, a request for extension will be prepared.

1.4 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 ensure 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 Q1 2023 included program focus on the previously launched (Q4 2022) Phase 2 Use Case Prioritization Survey. The goal of this survey was to gather 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. Program activity surrounding the Phase 2 Use Case Prioritization Survey included a General Stakeholder Event held on February 9, 2023, in which results from the survey were reviewed with the event attendees. Additional polls were conducted during the General Stakeholder Event and a

separate Advisory Group meeting held on March 21, 2023. The subsequent polls provided insight into the results of the Phase 2 Use Case Prioritization Survey. Results from the survey and further stakeholder feedback collected during the General Stakeholder Event and the March Advisory Group meeting are now being incorporated into the Phase 2 proposal.

Key stakeholder engagement in Q1 also included User Acceptance Testing (UAT) of the IPV, in which program stakeholders were given the opportunity to verify the functional requirements of use cases and useability of the IEDR in a testing environment. The UAT kickoff session was held on March 10, 2023, and user testing began on March 13, 2023. The UAT process provided the IEDR Program Team, IEDR Advisory Group, utility implementation teams, and additional prospective end users with a final opportunity to view and comment on the IPV prior to its release on March 31, 2023. Post IPV launch, users of the IEDR may continue to submit user feedback through the IEDR ideas portal on the IEDR platform at https://iedr.ideas.aha.io/

2.3   Advisory Group

In accordance with the Program Schedule and as previously decided upon, the cadence of Advisory Group meetings (AG meetings) was reduced starting in October 2022. Instead of occurring on a regular monthly cadence, Advisory Group meetings now coincide with new releases of the IEDR to allow Advisory Group members to comment on functional software.

NYSERDA held three Advisory Group meetings during Q1 2023: on January 27, 2023, February 21, 2023, and March 21, 2023. Discussion during Q1 2023 Advisory Group meetings focused on program status updates provided by the Development Team, including the current status of the Joint Utility Petition Regarding Sharing Data with the Integrated Energy Data Resource, Phase 2 efforts to date, IPV roadmap status, and demos of the IEDR user facing functionality. Advisory Group feedback on the Phase 2 Use Case Prioritization Survey was also obtained. Feedback obtained from the Advisory Group is being incorporated into Phase 2 planning efforts and will be included in the Phase 2 proposal. The next Advisory Group meeting will occur in April 2023.

January 31, 2023 | Advisory Group Meeting

During this AG meeting, the Joint Utilities petition, Phase 2 proposal status, and IPV roadmap were discussed. A demo of IPV user facing functionality was also conducted.

February 21, 2023 | Advisory Group Meeting

During this AG meeting, updates on the Phase 2 proposal and IPV roadmap status were discussed, and a demo of the user facing functionality from the latest version of the IPV was conducted.

March 21, 2023 | Advisory Group Meeting

During this AG meeting, Phase 2 use case and data visions, final results of the Phase 2 Use Case Prioritization Survey, and survey-related implications of use case development prioritization were discussed.

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 (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.

Q1 2023 UCG meetings primarily focused on continued discussion and coordination centered around use case development, data transfer specifications, data deep dives, data transfers, Phase 1 and 2 data flows, and the release of the IPV.

An in-person UCG meeting took place on January 20, 2023, in Albany, NY. During this day-long UCG meeting, program status updates, Phase 1 and Phase 2 utility data flows, and use cases were discussed, including network data, rate and tariff data, and customer data. Utility specific use cases, the DAF, and UCG retrospectives were also discussed.

2.4.1 Record of Bi-Weekly IEDR UCG Meetings as of Q1 2023

January 17, 2023 | Utility Coordination Group Meeting

During this UCG meeting, program status updates were provided on data deep-dive sessions, utility data transfers, and Development Team progress. Phase 2 utility budget timeline and resources were also discussed.

January 20, 2023 | In-person Utility Coordination Group Meeting

During this daylong event, status updates and discussion surrounding IEDR Phase 1 and Phase 2 utility data flows and planned use cases were discussed, which included network, rate, tariff, and customer data. Utility use cases, the DAF, and UCG retrospectives were also discussed.

January 31, 2023 | Utility Coordination Group Meeting

During this UCG meeting, program status updates were provided on utility data transfers and Development Team progress. The Phase 1 use case deep-dive strategy, including data specifications, and existing DAC data resources and potential for analysis were also discussed.

February 14, 2023 | Utility Coordination Group Meeting

During this UCG meeting, program status updates were provided on utility data transfers and Development Team progress. The customer data transfer specification was also discussed.

February 28, 2023 | Utility Coordination Group Meeting

During this UCG meeting, program status updates were provided on utility data transfers and Development Team progress. Phase 2 utility budget reminders, and Phase 1 network data deep dives were also discussed.

March 7, 2023 |Utility Coordination Group Meeting

This UCG meeting focused on two subjects: a review of Con Edison's and Orange & Rockland's Integrated Property Database Project and Phase 1 network data deep dives. During the Phase 1 network data deep dives, the Program Team finished introducing the MVP network data request and strategy.

March 14, 2023 | Utility Coordination Group Meeting

During this UCG meeting, program status updates were provided on utility data transfers, Development Team progress, and the IEDR data requirements tracker, and the IPV release was discussed.

March 28, 2023 | Utility Coordination Group Meeting

During this UCG meeting, program status updates were provided on utility data transfers, Development Team progress, and UCG file naming conventions. The latest MVP development roadmap was also shared with the group and 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 3. IEDR Cost Allocation

Table 3. IEDR Cost Allocation

IEDR Cost Allocation									
	2019								
IOU	Delivery Service Load[1]	NYPA Load Delivered by IOU	IOU Load net of NYPA Load	%			BAYG Allocation%	IEDR Allocation%	
Central Hudson	4,962,793	98,360	4,864,433	3.4%			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%	74.2%	x	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 cumulative activity through March 31, 2023.

Table 4. IEDR Budget Allocation for Phase 1

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	604,726	309,082	913,808	60.9%	-	-	913,808	60.9%	586,192
Procured Resources	12,000,000	5,039,166	6,831,675	11,870,842	98.9%	-	-	11,870,842	98.9%	129,158
Total	13,500,000	5,643,892	7,140,758	12,784,650	94.7%	-	-	12,784,650	94.7%	715,350

(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 growth in expenditures in Q1 2023 as system development costs for software services related to the IEDR's design, build, and operation were incurred. Expenditures are currently aligned with this increase and are anticipated to remain within approved Phase 1 budgets.

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

4   Program Plans for 2023

Priorities for 2023 include conducting sprint cycles that will result in additional 3 to 5 use cases for incorporation into the MVP, filing the Phase 2 proposal, filing the Phase 1 summary report, conducting the IEDR Platform User Conference, and declaring the Minimum Viable Product (MVP) of the IEDR and Phase 1 of the IEDR program complete.

At publishing of this report, priorities for Phase 2 of IEDR program development are being drafted and will be incorporated in the forthcoming Phase 2 proposal, that will be submitted to committee on May 1, 2023. Expanded details regarding proposed program priorities beyond 2023 will be detailed in the Phase 2 proposal.

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 is in place. 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 2 "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 December 31, 2022. Within the context of Figure 1, PM&C is defined as Program Management and Control as performed by the Program Manager.

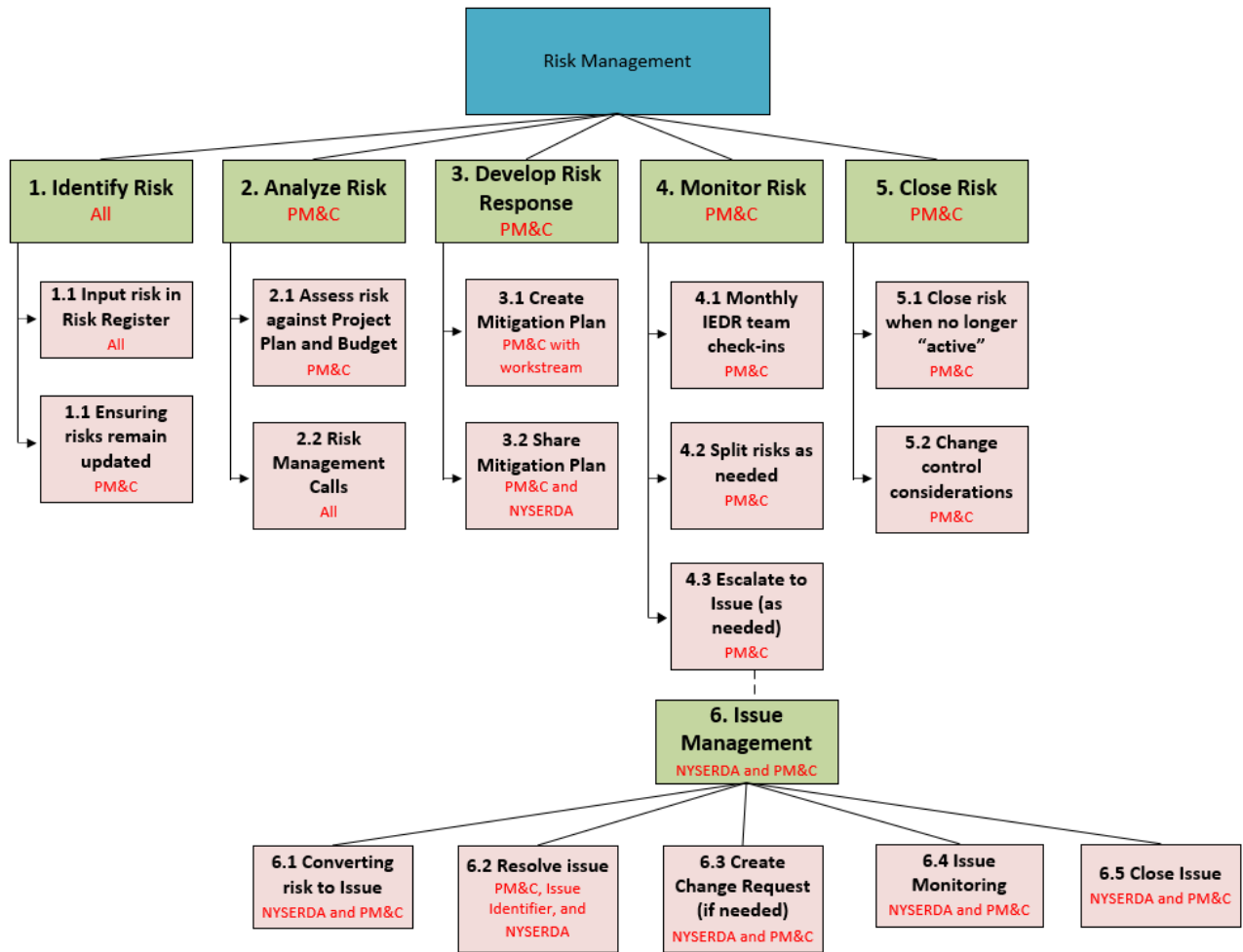**Figure 1. IEDR Risk Management Plan Overview**

Table 4. High and Critical Risks to the IEDR Program as of April 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).

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/YiewDoc.aspx?DocRetld={43298F6A-3CA4-435F-BC9D- 6DEF6F575836}

[3]   The lEDR Order, P.33.

[4]   Case 20-M-0082, Proceeding on Motion of the Commission Regarding Strategic Use of Energy Related Data, OrderAdopting 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.

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