Integrated Energy Data Resource (IEDR) Program Quarterly Report through March 31, 2022

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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.

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Integrated Energy Data Resource (IEDR) Program Quarterly Report through March 31, 2022

Final Report

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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

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Background

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

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

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

In issuing the IEDR Order, the PSC adopted the detailed approach and plan for the establishment of an IEDR presented in a whitepaper published by the staff of the Department of Public Service (DPS) in May 2020. [2]

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

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

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

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

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

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

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

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

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 first 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. All Q1 milestones were completed on time as anticipated.

Table 1. Milestone Status—First Quarter 2022

Milestone	Program Topic	Date Complete/ Date Expected	Status
Issue RFP for Solution Architect + Development Contractor teaming arrangement and related services.	Solution Architect + Development RFP	3/25/22	Completed
Outreach to organizations that submitted use cases and may be aligned with prioritized use cases.	Stakeholder Engagement	Q2 2022	In Progress–On Schedule
Use case interviews to assist in user story and user journey development.	Stakeholder Engagement	Q2 2022	In Progress–On Schedule
Workshops/focus groups for each use case to validate user stories and user journeys.	Stakeholder Engagement	Q2 2022	In Progress–On Schedule

1.2 Future Milestones

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	Q4 2021 -Q2 2022	In Progress—Not expected
Use case interviews to assist in user story and user journey development.	Stakeholder Engagement	Q4 2021–Q2 2022	In Progress—Not expected
Workshops/focus groups for each use case to validate user stories and user journeys.	Stakeholder Engagement	Q4 2021-Q2 2022	In Progress—Not expected
Contract with Solution Architect + Development team executed, and work commences.	Solution Architect + Development RFP	Q2 2022	In Progress—Potential deviation
Sprint cycles focused on converting user stories/journeys for 3-5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Q2 2022-Q3 2022	Not Started—Not expected
Final round of data access/security review and User Acceptance Testing of the IEDR's first public iteration.	Public Iterations of IEDR	Q3 2022	Not Started—Not expected
First public iteration of the IEDR released	Public Iterations of IEDR	Q4 2022	Not Started—Not expected
Sprint cycles focused on converting user stories/journeys for an additional 2-5 use cases into functional IEDR prototypes.	Public Iterations of IEDR	Q4 2022-Q3 2023	Not Started—Not expected
Phase 2 proposal filed	Reporting	January 15, 2023	Not Started—Not expected
Phase 1 summary report filed	Reporting	July 30, 2023	Not Started—Not expected
IEDR Platform User Conference	Stakeholder Engagement	Q2 2023	Not Started—Not expected
Steering Committee reviews and approves declaration of IEDR MVP.	Public Iterations of IEDR	Q3 2023	Not Started—Not expected
IEDR MVP declared (5-10 use cases deployed) and end of Phase 1.	Public Iterations of IEDR	Q4 2023	Not Started—Not expected

1.3 Quarter 1 2022 Schedule Deviations and Planned Response Activities

All Q1 milestones were completed and/or initiated in accordance with the PSIP. To ensure the Integrated Energy Data Resource (IEDR) tasks are deployed in accordance with the PSIP, monthly reviews of the Integrated Master Schedule are conducted by the Program Manager. Any deviations to the PSIP will be shared with the broader IEDR team and noted on the IEDR dashboard and in future IEDR Quarterly Reports.

1.4 Future Potential Schedule Deviations and Planned Response Activities

As of March 31, 2022, there is a potential schedule deviation surrounding the Solution Architect and Development Contractor commencing their work with IEDR. While the Solution Architect and Development Contractor (Development Team) RFP was released in Q1 2022 as anticipated, to ensure that respondents have sufficient time to submit their proposal and to accommodate contract negotiations, it is anticipated that contracts may not be executed, and work may not commence until Q3 2022.

To ensure this delayed milestone does not affect timelines for subsequent milestones, New York State Energy Research and Development Authority (NYSERDA) and the Program Manager are proactively developing materials to reduce lead times for the Development Team once they have been onboarded. By developing use case wireframes of the IEDR platform and initiating a collaborative agile management tool, the Program Management team estimates that the lead time for the Development Team would be reduced by four weeks.

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 will require meaningful opportunities for broad stakeholder engagement that complements and contributes to the Advisory Group's work. To that end, the Program Sponsor will 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 will 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 collaborate with and call upon the Program Manager to facilitate stakeholder engagement activities.

2.2 Stakeholder Engagement Status

Interested stakeholders were invited to participate in an initial process to identify, characterize, and prioritize IEDR use cases. Initial use case comments were submitted by stakeholders by July 23, 2021, and are available on NYSERDA's IEDR website.[7] Throughout Q1 2022, the IEDR program team hosted 15 interview sessions with stakeholder organizations to gain a deeper understanding of their needs as they relate to the IEDR. During the interviews, use cases were discussed to better understand the perceived impact of the use case on both the organization and New York State's Climate Leadership and Community Protection Act (Climate Act) goals, in addition to the feasibility of implementation

based on data needs and other factors. The interviews helped confirm common pain points and concerns across stakeholder organizations as well as gather additional detail regarding data needs that can be potentially solved by the IEDR. Additional use cases were also discovered during these interviews and will be tracked and prioritized for implementation based on the established framework. Stakeholder outreach will continue through Q2 2022 as the Program Management team engages with stakeholders to refine use cases identified for the IEDR Initial Public Version (IPV).

2.3   Advisory Group

NYSERDA held three Advisory Group meetings during Q1 2022, which provided the opportunity to work collaboratively and gather commentary from a diverse stakeholder group. Advisory Group meetings have a public segment available to public stakeholders, followed by more in-depth conversations with the Advisory Group itself. The January 20, 2022 Advisory Group meeting focused on the status of the Development Team RFP and the plan for identifying early access users or particularly interested parties to work alongside the development of IEDR. The February 17, 2022 session reviewed use case interview outcomes, customer consent strategy, IEDR principles and approach to customer data, and emission factors. The last Advisory Group meeting of Q1 2022, held on March 17, discussed gathering feedback from organizations on the use cases, IPV use cases, and hosting capacity. The list of Advisory Group members is available on the IEDR website.

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. The UCG will meet monthly throughout Phase 1.

During Q1 2022, NYSERDA distributed a Notice of Utility Data Requirements (UDR), which provided a list of utility data most likely to be required to support Phase 1 development. The notice included a tabular list of data fields and descriptions, as well as guidance for further collaboration to

refine data definitions and utility implementation plans in support of the IEDR Phase 1 timeline. The Notice of UDR was designed to support the IEDR objective of creating stakeholder value by acquiring and using available data to enable the most likely use cases of the initial IEDR implementation (Phase 1).

To support utilities in responding to the Notice of UDR, the Program Management team hosted two group meetings, several one-on-one meetings with utilities upon request, and responded to all questions that were brought forward. Overall, four UCG calls were held throughout Q1 2022. The first meeting on January 10 provided an overview of the Notice of UDR, next steps, and an update on the plan for future UCG meetings. The February 14 meeting reviewed the utility engagement plan, the Notice of UDR response timeline, and addressed any pending questions/concerns from the utilities. The UCG meeting, held on March 7, had representatives from the Joint Utilities (JU) present their UDR key takeaways, delivery approach, timeline, and limitations/risks. Representatives from Avangrid, National Fuel, Liberty, and Con Edison presented their responses to the Notice of UDR. The March 9 meeting included an IEDR program status update followed by representatives from National Grid and Central Hudson presenting their responses to the Notice of UDR.

3   Use and Status of Funding

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

Table 3. IEDR Cost Allocation

IEDR Cost Allocation								
	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 March 31, 2022.

Table 4. IEDR Budget Allocation for Phase 1

Table 1: Cumulative activity through March 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	251,500	-	251,500	16.8%	-	-	251,500	16.8%	1,248,500
Procured Resources	12,000,000	870,563	4,500,339	5,370,902	44.8%	-	-	5,370,902	44.8%	6,629,098
Total	13,500,000	1,122,062	4,500,339	5,622,401	41.6%	-	-	5,622,401	41.6%	7,877,599

(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 expects significant growth in expenditures in Q3 2022 as system development costs for software services related to the IEDR's design, build, and operation are 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 2022

As Phase 1 of the program is now underway, the focus over the next year will be on execution and implementation. Priorities over Q2 of 2022 will include: (1) procuring the Solution Architect and Development Team to begin IEDR development, (2) continuing stakeholder engagement efforts to refine and finalize the prioritized IEDR use cases, (3) establish a firm and consolidated use case repository, and (4) continue to identify specific utility and non-utility data required to support high-priority Phase 1 use cases.

Quarter 3 efforts will be centralized around further development of the IEDR Program, including: (1) Sprint cycles focused on converting user stories/journeys for three to five use cases into functional IEDR prototypes, procuring the Solution Architect and Development Team to begin IEDR development and (2) performing final rounds of data access/security review and User Acceptance Testing of the IEDR's first public iteration.

5   Program Risk Assessment and Mitigation Plan

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

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

With the commencement of Phase 1, a comprehensive risk assessment and mitigation plan with extensive tracking has commenced. The Program Manager is actively coordinating with all external partners to capture and mitigate risks in accordance with the Risk Management Plan. At this time, there are two "high" or "critical" 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 March 31, 2022. Within the context of Figure 1. PM&C is defined as Program Management and Control as performed by the Program Manager.
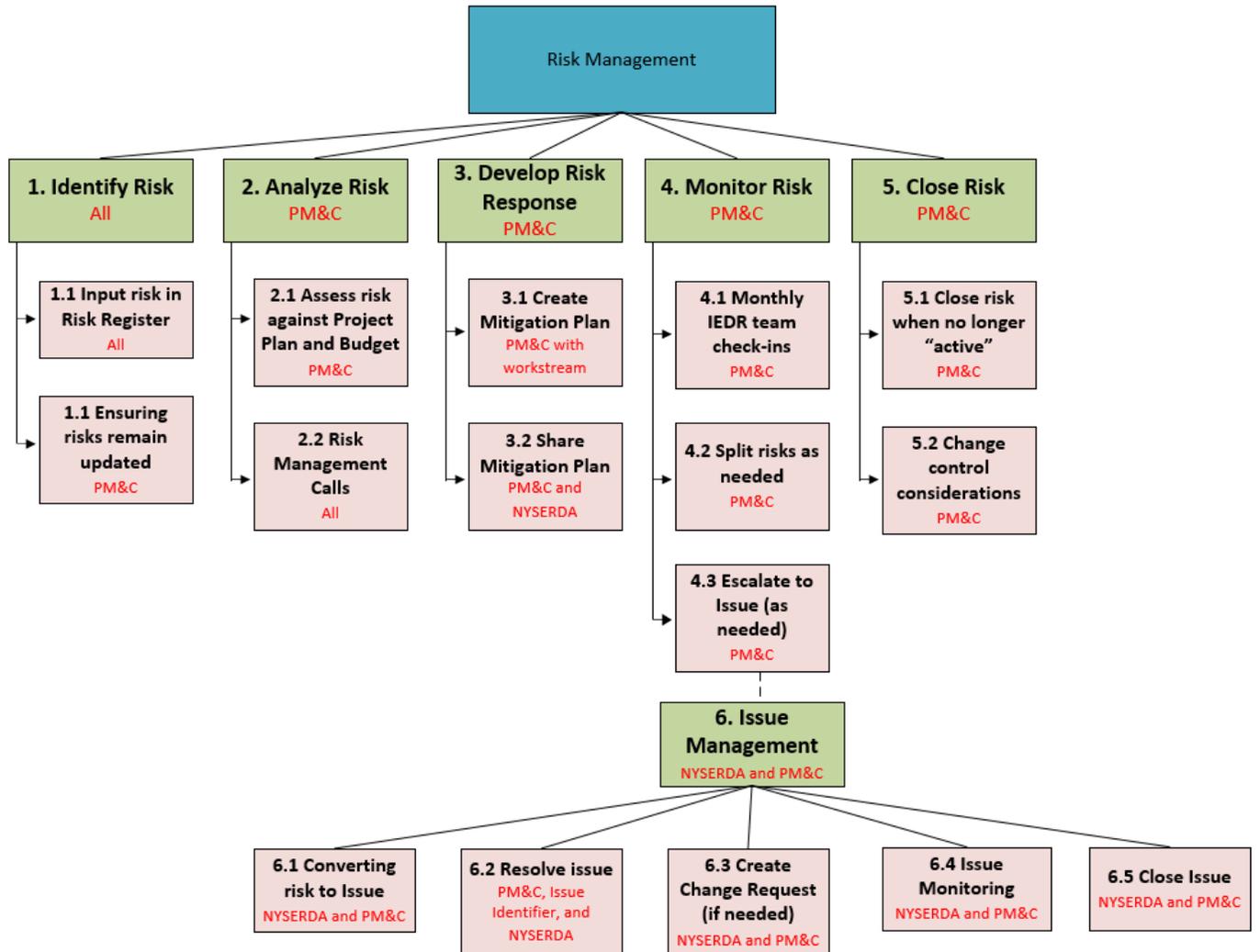
Figure 1. IEDR Risk Management Plan Overview

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

Risk Description	Impact Area(s)	Risk Severity	Mitigation Approach
Ensuring an approach and requirements of data security agreements are established with utilities in a timely manner.	Schedule	Critical	The Program Management team has been actively mitigating this risk by reviewing best practices of data security agreements and collaborating with utilities to ensure agreements are beneficial to stakeholders while protecting IEDR information.
The delayed onboarding of the Development Team could impact future milestones.	Schedule	High	The Program Management team has been evaluating areas of development to proactively support Development Team onboarding to reduce the lead time (activities include creating wireframes and utilizing agile management tools).

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 21, 2021

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]   IEDR Use Case submissions can be found at: https://www.nyserda.ny.gov/All-Programs/Integrated-Energy-Data-Resource/Use-Case-Development

[8]   These numbers differ from those originally published in the integrated Energy Data Resource Initial Program Sponsor Implementation Plan. The update reflected here and in the Updated Program Sponsor Implementation Plan disaggregates NYPA load from the loads of the investor-Owned Utilities and presents the adjusted Bill as You Go allocation.

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