

NYSERDA IEDR General Stakeholders Meeting

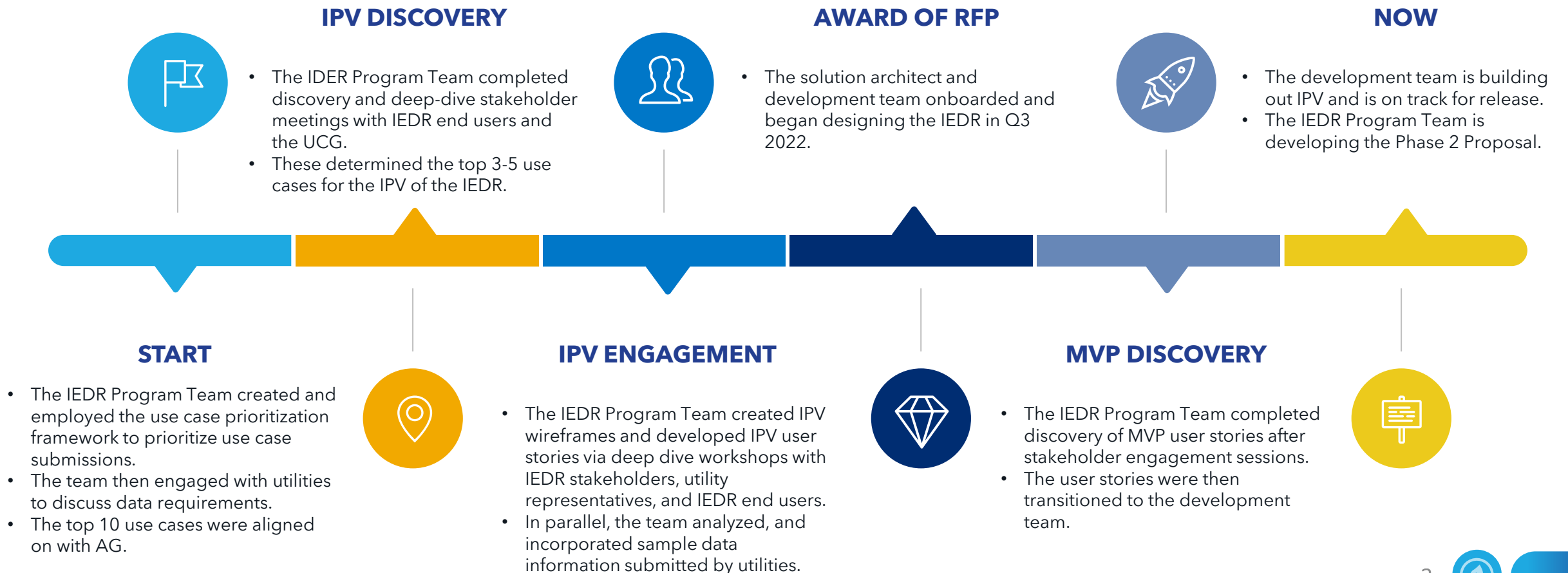
Pre-Read Materials

2/9/2023



IEDR Phase 1 Progress Overview

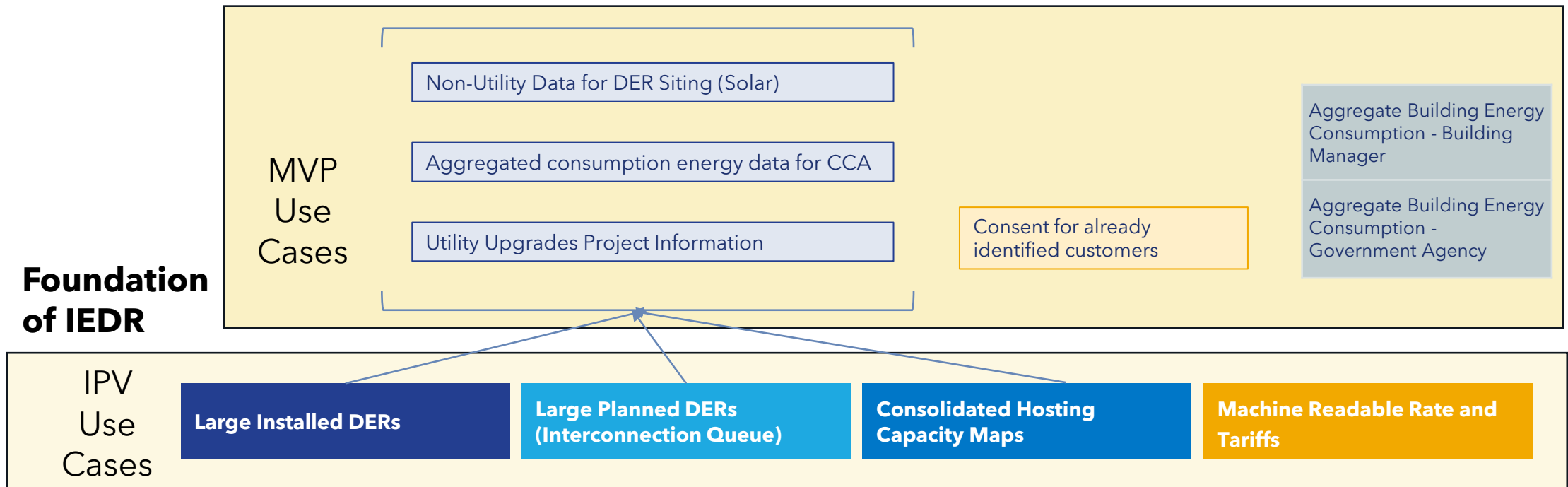
For Phase 1 of the IEDR, an Initial Public Version (IPV) will be released in Q1 2023, and a Minimum Viable Product (MVP) will be released by the end of Q4 2023. The IPV will enable at least three use cases for stakeholder evaluation and comment to inform further development. The MVP will enable at least five of the highest priority stakeholder use cases which can be supported with available data.



Phase 1 Use Case Overview

The functionality in the IPV release and MVP release comprises the Phase 1 scope for the IEDR Program. For full descriptions of Phase 1 use cases, please refer to the [IEDR public dashboard](#).

End-to-end solution enablement



Use Case Prioritization Framework

Use cases will be prioritized on a matrix that evaluates and scores use cases on their overall stakeholder impact and feasibility to implement.

The intersection point defines the average prioritization value (feasibility, impact) and the data was divided into quadrants based on this data point.



Prioritization Mapping Per Question

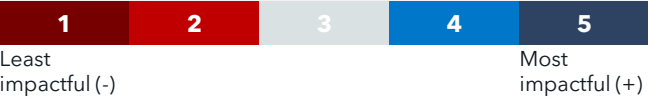
A question on impact and feasibility was posed per each use case in the Phase 2 survey. We mapped responses to a number 1-5 for both impact and feasibility.

The higher the number, the more impactful and feasible that use case is. Use cases with higher impact and feasibility scores are higher priority per this framework.

Impact

How impactful is this use case in accelerating and improving New York's CLCPA goals?

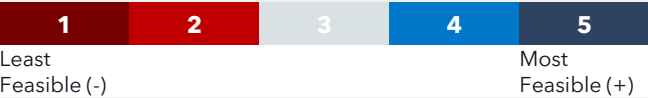
- 1 This use case is not explicitly beneficial to these goals, but supports the end user in some capacity
- 2 This use case has some impact on the speed, scale, OR cost of achieving at least 1 CLCPA goal
- 3 This use case has some impact on the speed, scale, AND cost of achieving at least 1-2 CLCPA goals
- 4 This use case significantly impacts the speed, scale, AND cost of achieving at least 1-2 CLCPA goals
- 5 This use case significantly impacts the speed, scale, AND cost of achieving at least 3 or more CLCPA goals



Feasibility

Considering the use case's data and technical difficulty, business complexity, and required policy changes, how feasible is this use case to implement?

- 1 The use case is feasible following resolution of technical, business, and/or policy constraints that are significant but solvable
- 2 The use case is feasible following resolution of moderate to significant technical, business, and/or policy constraints
- 3 The use case is feasible following resolution of moderate technical, business, and/or policy constraints
- 4 This use case is nearly feasible and ready to implement, following resolution of small, technical, business, and/or policy constraints
- 5 This use case is feasible and readily able to be implemented





Highest Priority Phase 2 Use Cases

*An aggregated PDF for all Phase 2 use cases is provided in slide 17

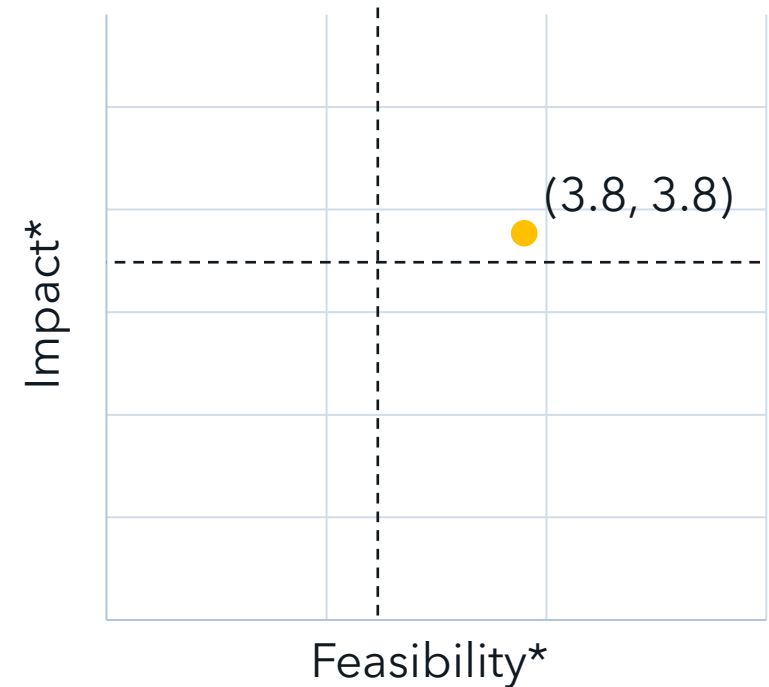
Accelerated Distributed Energy Resource (DER) Siting

Use Case Description*

This use case will support local governments and community solar developers who want to accelerate the process for identifying, selecting, and negotiating site agreements for community solar projects in order to deploy available capital more quickly and increase the amount of clean energy available to NY electricity customers. In addition to electrical infrastructure information, these end users need environmental, community, and property data to be able to reliably identify feasible sites for solar development.

Note: This use case directly builds off functionality in Phase 1. Within Phase 1 we plan to enhance the DER siting tools launched in the IPV, streamline access and enable more efficient analysis of critical DER siting information by consolidating electrical infrastructure data and non-utility environmental, community, and property data and investigate the incorporation of energy storage and electric vehicle charging capacity data

Use Case Prioritization



*Weighted Averages

*For full use case description please refer to the Phase 2 survey use case aggregation document.



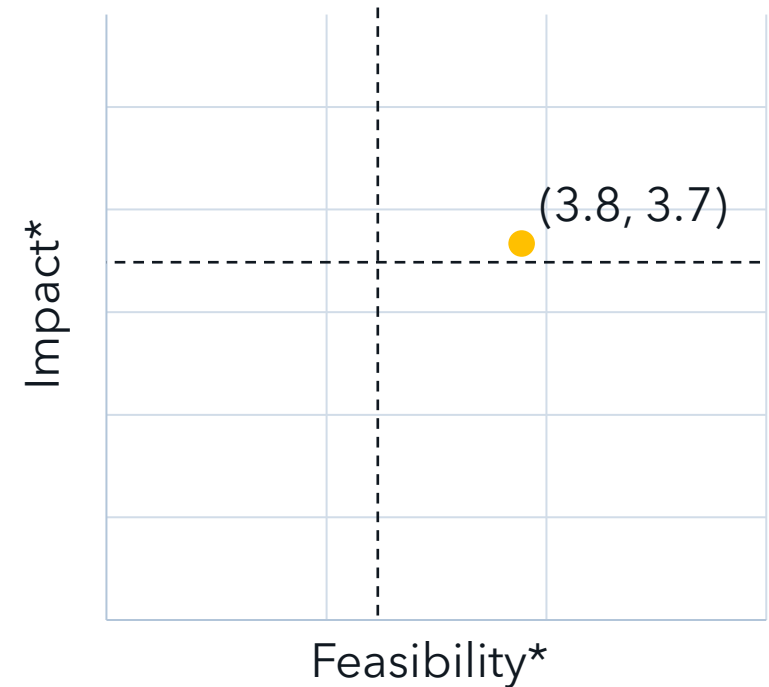
State of Distributed Energy Resources (DER) Dashboard

Use Case Description*

This use case will support trade associations and state agencies to better understand key areas of distributed energy resources (DER) concern, trends, rates of change, etc. Insights will inform and influence how and where to focus collective efforts as interconnection challenges become more and more frequent. Disadvantaged communities (DAC) data could be incorporated to better understand and forecast potential disparities in equitable access to clean, renewable, and affordable energy—and monitor progress towards achieving Climate Leadership and Community Protection Act (CLCPA) goals.

Note: This use case directly builds off functionality in Phase 1. Within Phase 1 we plan to enhance the DER siting tools launched in the IPV, streamline access and enable more efficient analysis of critical DER siting information by consolidating electrical infrastructure data and non-utility environmental, community, and property data and investigate the incorporation of energy storage and electric vehicle charging capacity data

Use Case Prioritization



*Weighted Averages

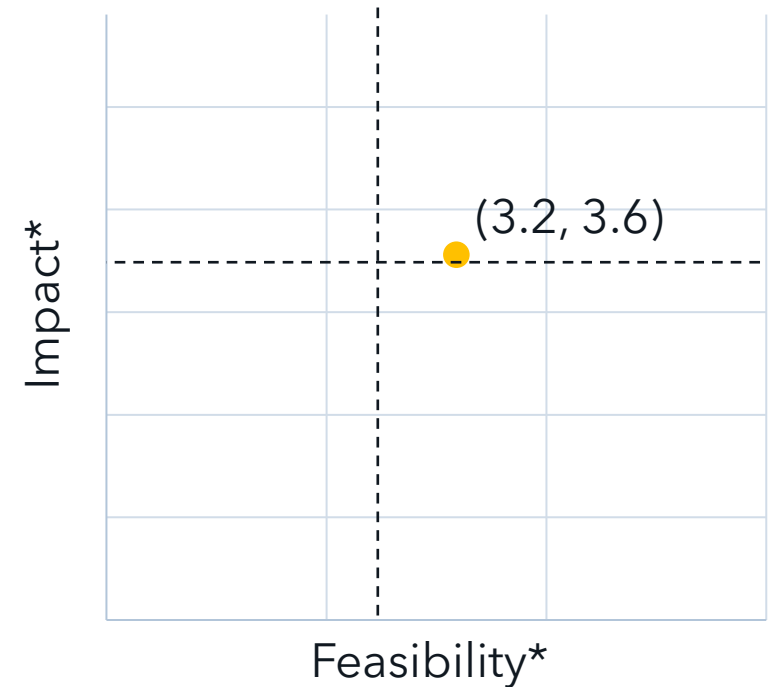


Accelerating Electric Vehicle (EV) Siting and Program Opportunities

Use Case Description*

This use case will enable Utilities, EV Charger Infrastructure Providers, Government Agencies, or Community Organizations, to accelerate and scale the process for identifying sites/opportunities for development of a variety of EV Charger offerings and programs. For instance providing data on insights on consumer buying patterns of EVs, models of consumer driving/recharging patterns, real estate (land/multi-family housing (MFH)) information, building energy use (if MFH), and feeders with the greatest EV capacity allow government agencies and community organizations to target and site needed electric vehicle supply equipment (EVSE) in the low and moderate income (LMI) and disadvantaged community (DAC) areas, deploy available capital more quickly and increase the charging infrastructure in NY state and achieve policy goals (e.g., ensuring access for DACs and LMI Customers).

Use Case Prioritization



*Weighted Averages

*For full use case description please refer to the Phase 2 survey use case aggregation document.



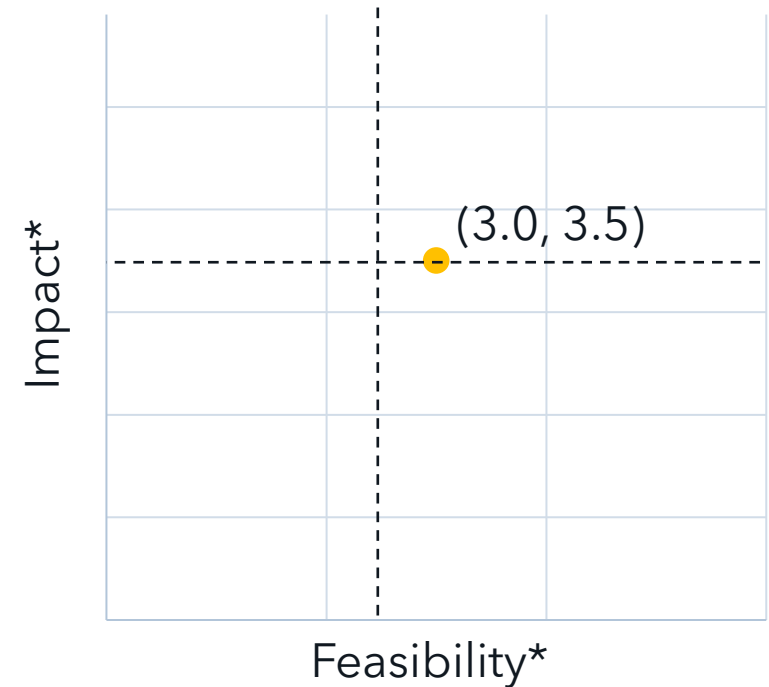
Determine Customer Site Hosting Capacity

Use Case Description*

The use case will provide state agencies with customer site load and hosting capacity data that can be used in conjunction with existing data from IEDR Phase 1 release (substation, feeder level hosting capacity, and planned and installed distributed energy resources (DER) data) to plan and evaluate potential DER sites more efficiently and effectively. By using existing data in IEDR system from IEDR Phase 1 in addition to data mentioned above, end users should be able to dynamically view, and query estimated hosting/load capacities for customer sites, circuits, and substations whereby estimated hosting capacity is provided for all service points and all relevant levels of aggregation.

Note: This use case directly builds off functionality in Phase 1. Within Phase 1 we plan to create a foundational one stop shop for all hosting capacity data including installed and queued DERs to accelerate DER Siting and system planning.

Use Case Prioritization



*Weighted Averages

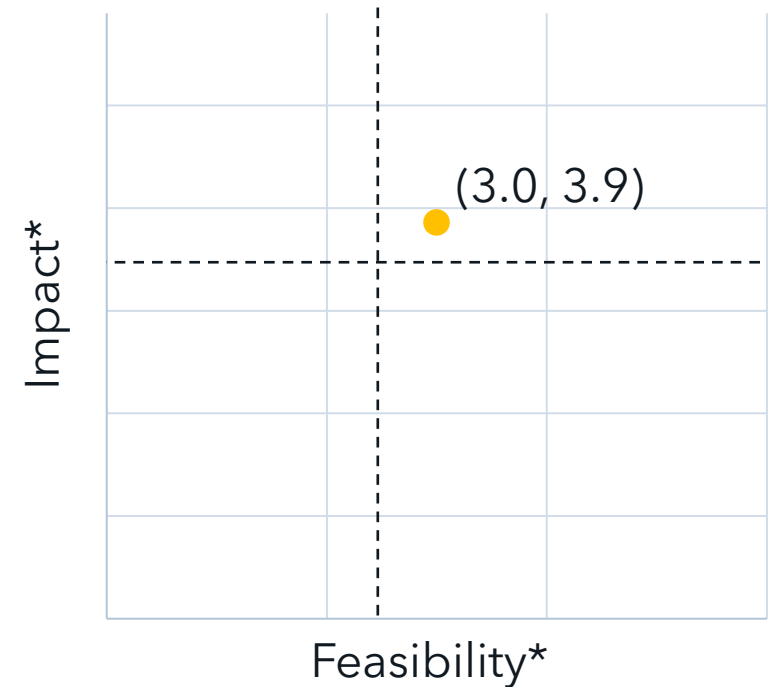


Enhanced Community Distributed Generation (CDG) Customer Data Coordination

Use Case Description*

This use case will enhance the coordination between distributed energy resource (DER) providers and their customers by streamlining access to their established customers' consumption and billing data, as well as CDG-specific utility account activity. DER providers will be able to: review and maintain site allocations to maximize savings and CDG benefits for subscribers, audit account-level CDG activity to ensure proper CDG program management, properly bill the subscriber for CDG-related products, and maintain subscriber's insight into benefits and savings CDG participation.

Use Case Prioritization



*Weighted Averages

*For full use case description please refer to the Phase 2 survey use case aggregation document.



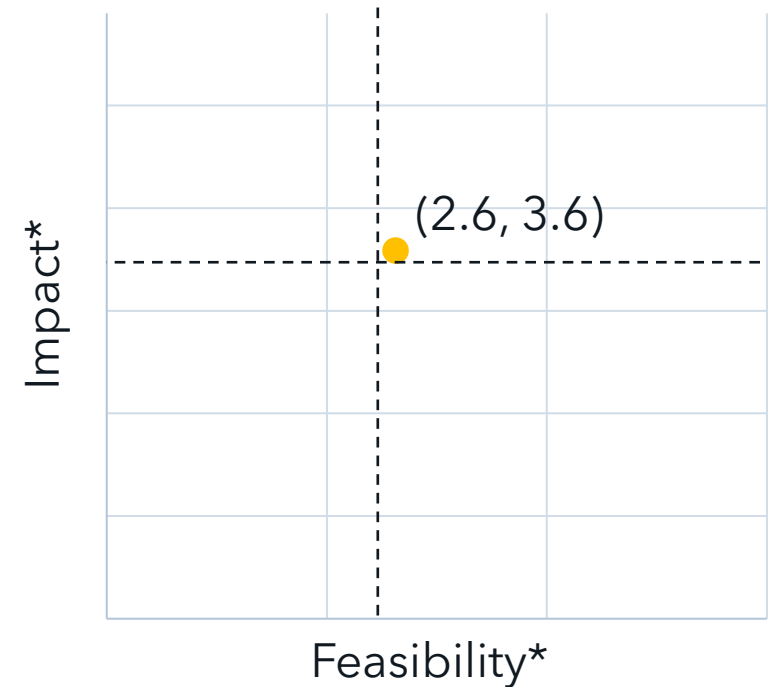
Accelerate Distributed Energy Resources (DER)/Commodity Installation Implementations

Use Case Description*

This use case supports DER developers, DER owners, utilities, organizations that site DERs (e.g., land trust) and energy service companies (ESCOs) to validate data requirements for the successful scoping and implementation of an economically viable commodity and DER combination project under the Value of Distributed Energy Resources (VDER) tariffs within NYS. In addition, this use case will provide end users with information to evaluate pricing structures. For instance, ESCOs require the following information: electric service point details, NYISO market details, utility tariff details. End users will also have information on the value difference between the current installed capacity (ICAP) tags and the previous year and the future value in order to properly bill and administer the product. Electronic Data Interchange (EDI) transactions would provide clarity to the type of data being provided by using a meter type/or data type identifier.

Note: This use case directly builds off functionality in Phase 1. Within Phase 1 we plan to enhance the DER siting tools launched in the IPV, streamline access and enable more efficient analysis of critical DER siting information by consolidating electrical infrastructure data and non-utility environmental, community, and property data and investigate the incorporation of energy storage and electric vehicle charging capacity data

Use Case Prioritization



*Weighted Averages

*For full use case description please refer to the Phase 2 survey use case aggregation document.

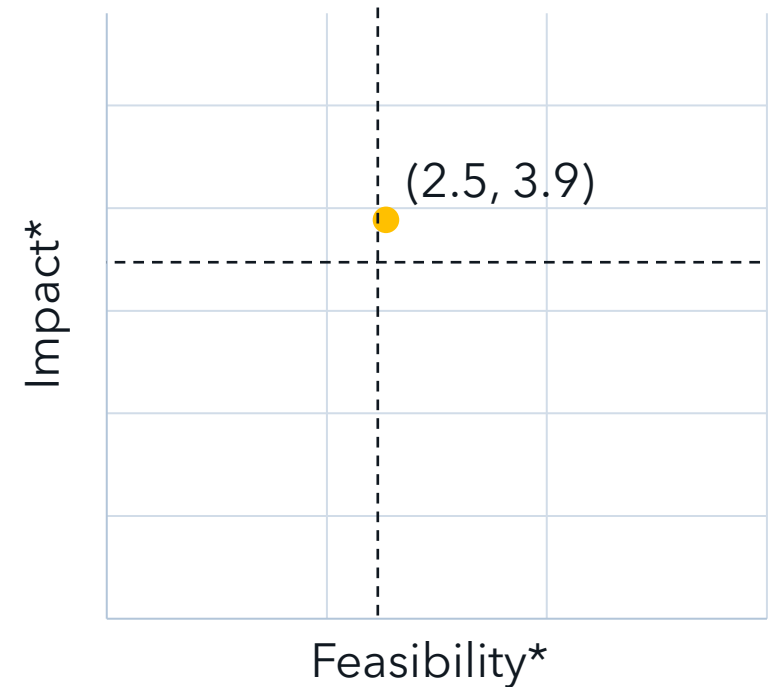


Facilitate IEDR Wholesale Services

Use Case Description*

This use case will support service providers in their efforts to facilitate registration with NYISO for participating in existing and planned wholesale market participation models, as well as updating this information (ex. Transmission Node applicable to a customer's location) on an as needed basis (NYISO intends to update this information annually). The service provider will use the billing quality data provided to comply with NYISO settlement requirements and avoid the need to install duplicative private metering to supply the data. The service provider will be able to obtain interval data for each account registered with NYISO as part of an aggregation for submission by the service provider to the NYISO to comply with settlement data submission requirements.

Use Case Prioritization



*Weighted Averages

*For full use case description please refer to the Phase 2 survey use case aggregation document.



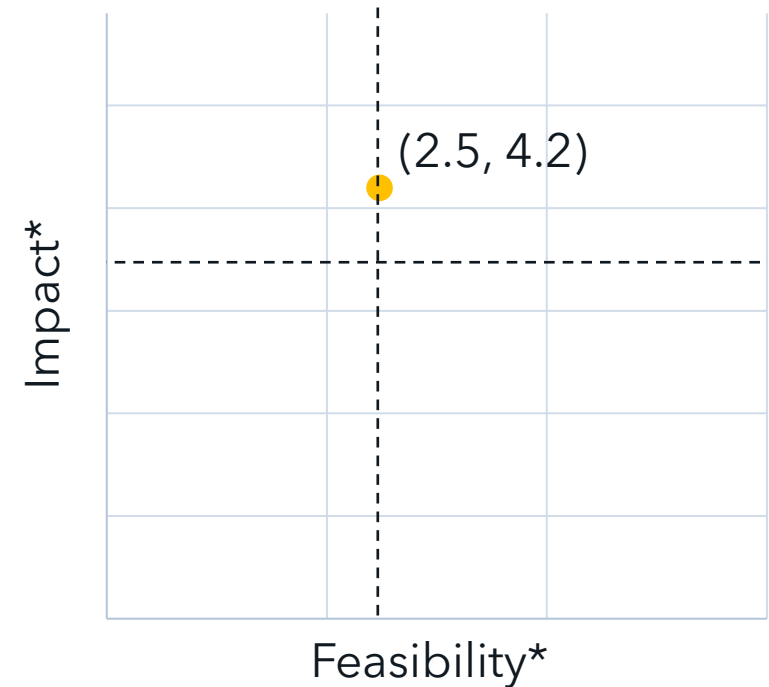
Accessible Distributed Energy Resources (DER) Interconnection (Hosting Capacity) Information

Use Case Description*

This use case will support DER developers, DER owners and utilities to better understand and accelerate the interconnection approval process for planned / installed DER systems, so that DER projects can deliver clean energy to customers as soon as possible. Accelerating the interconnection process also includes a clearer understanding and evaluation of the process of siting the location of a DER installation. These goals could be achieved by enhancing existing hosting capacity maps through standardization, the addition of interconnection approval time and interconnection cost information, and the inclusion of utility upgrade project information, and corresponding forecast of hosting capacity updates.

Note: This use case directly builds off functionality in Phase 1. Within Phase 1 we plan to enhance the DER siting tools launched in the IPV, streamline access and enable more efficient analysis of critical DER siting information by consolidating electrical infrastructure data and non-utility environmental, community, and property data and investigate the incorporation of energy storage and electric vehicle charging capacity data. In addition, within Phase 1 we plan to create a foundational one stop shop for all hosting capacity data including installed and queued DERs to accelerate DER Siting and system planning.

Use Case Prioritization



*Weighted Averages

*For full use case description please refer to the Phase 2 survey use case aggregation document.





Additional Reference Material

IEDR Quarterly Reports

As a reference during the session, please find all IEDR Quarterly reports at the web link below. 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 and are published in January, May, August, and October.

[IEDR Resources - NYSERDA](#)



All Use Cases Represented in Survey

As a reference document during the session, please find a PDF attached to the pre-read email compiling all use cases represented in the survey. Please do review the first three use cases if possible: Electricity emissions data for improvement of Greenhouse Gas (GHG) emissions regulation, Enhancing the Implementation of Customer Time-of-Use Plans for Electric Vehicle (EV) Charging and Developing and Implementing More Effective Clean Energy Strategies and Programs, as these will be discussed in greater detail during the session.

This document does not need to be read in its entirety before the session and has been provided as a supplementary resource.



Phase 2 Survey
Summaries

