MA Interconnection Automation
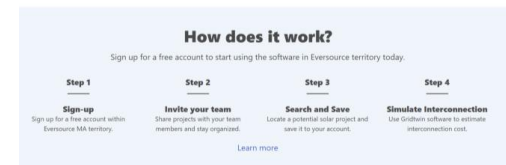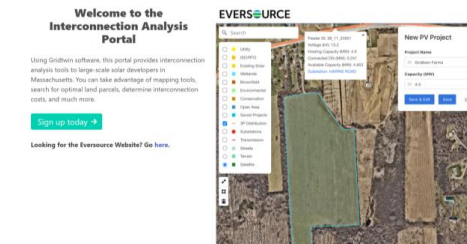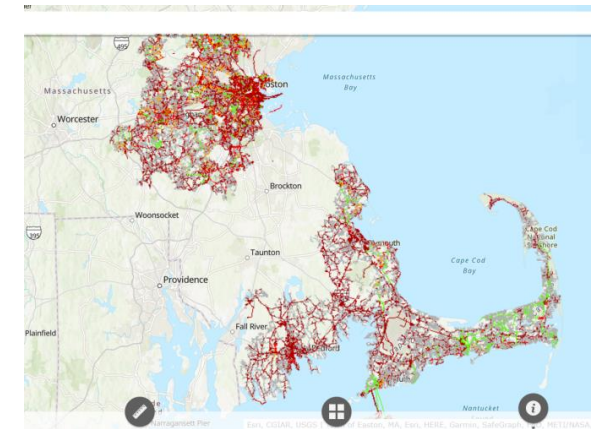
External Overview

06/05/2023
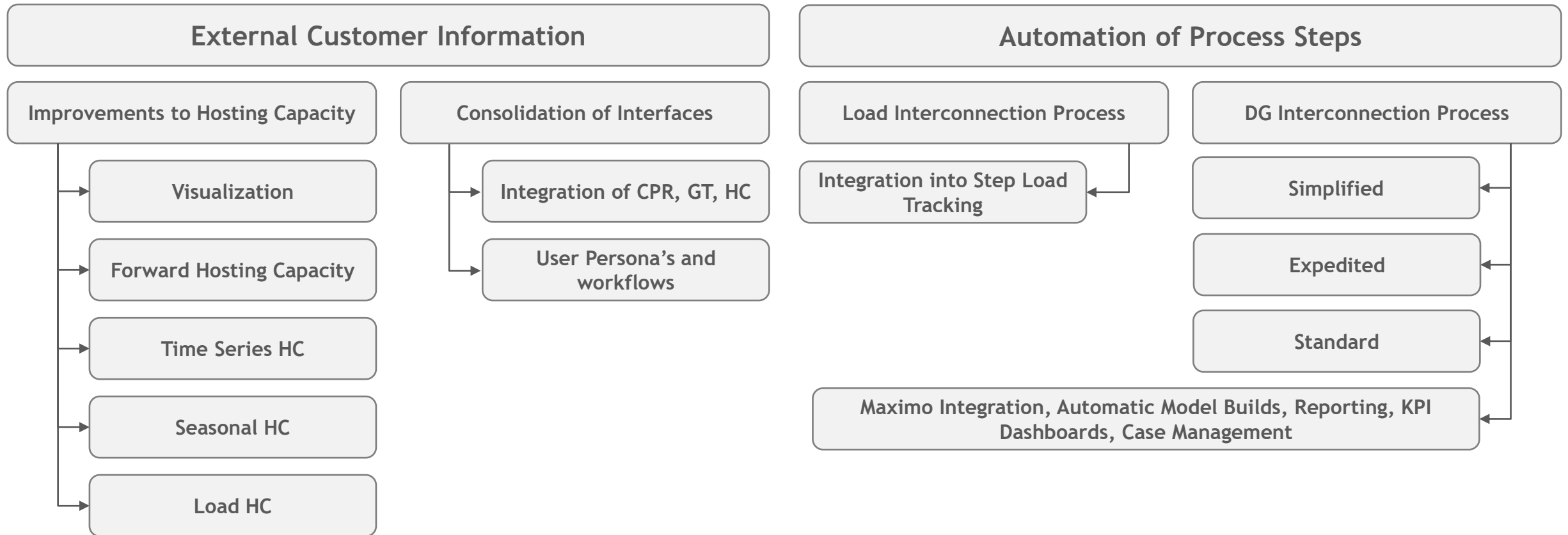
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Interconnection Automation – Overview

Challenges

- The Company currently provides four (4) different tools/websites for developers to use and guide them through their interconnection process

- Workload of DG interconnections is up more than 200% in CT and NH with MA being slammed as is.

- Developers and regulators are demanding "dynamic" interconnection of resources

- Hosting Capacity data does not show future HC nor can it be used to evaluate storage or load interconnections

- Developers of battery storage asking for time series

- Promises made to the DPU

Key Work Areas

External Customer Information

Improvements to Hosting Capacity

- Visualization
- Forward Hosting Capacity
- Time Series HC
- Seasonal HC
- Load HC

Consolidation of Interfaces

- Integration of CPR, GT, HC
- User Persona's and workflows

Automation of Process Steps

Load Interconnection Process

- Integration into Step Load Tracking

DG Interconnection Process

- Simplified
- Expedited
- Standard

Maximo Integration, Automatic Model Builds, Reporting, KPI Dashboards, Case Management

External Interface Consolidation - Key requirements and Objectives

- Primary navigation shall happen on a map-based interface

- Map shall provide the user a variety of different layers

- Simulation Mode with User accounts

- Application process accessible from maps

- Updated visualization of data and reporting

- Integration between existing applications and data
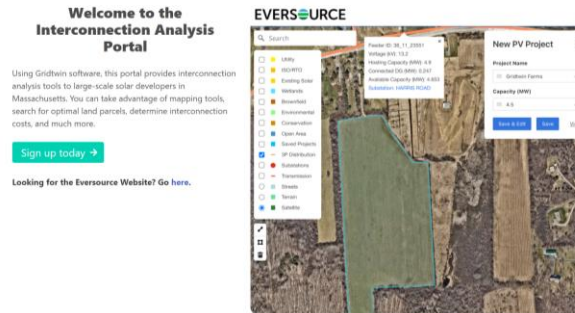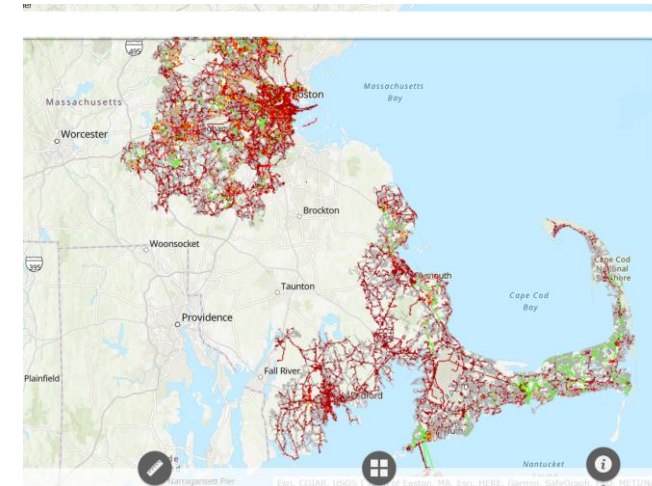
Automatic Interconnection - Key requirements and Objectives

- Automation can be applied to DER that are BTM and <1 MW
- Automation should consider project with a valid queue. Queue must be tracked in Power clerks
- Validation of application data is complete
- Customer notification of agreement and study agreement
- Canned messages that go to the customer

Application

Automation of sorting and screening

|		
Simplified (MA) (<25kW 3phase) (<15 1phase) **Level 1 (CT) (<25kW 1phase)** **Simplified (NH) (<100kW 1 or 3 phase goes through screen, anything less than 15kW single phase)**	**Expedited (MA) (passes Expedited screening)** **Fast Track (CT) (<2MW that passes "a screen")** **Fast Track (NH) (<500kW if it passes, process stays the same)**	**Standard (MA) (failed the expedited screening)** **Study Process (CT) (>2MW of fails the fast track screen)** **System Impact Study (NH) (Anything not simplified)**

Hosting Capacity (HC) - Key requirements and Objectives

- Load and DG HC
- Seasonal HC
- Time Series HC
- Forward HC
- Visualization of HC
- Data cleanup

Load Hosting Capacity

Generation Hosting Capacity
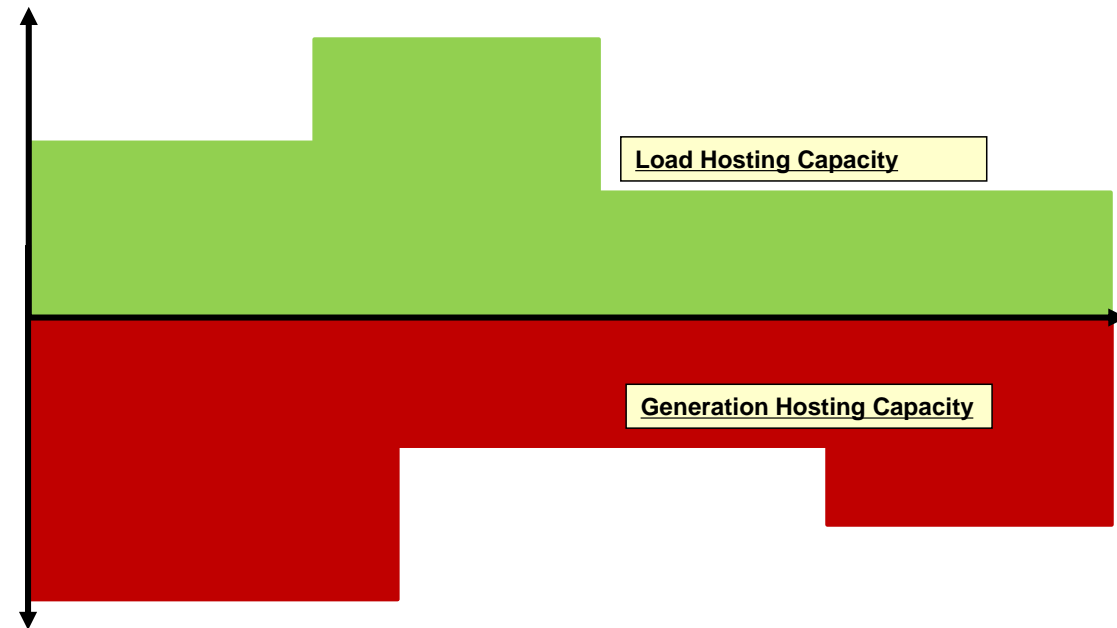
Concept of Time Series, Load and Generation Hosting Capacity