



Markets Gateway Roadmap

As of March 14, 2022

- Added information regarding Reserves implementation

Action Required	Deadline	Who May Be Affected
Reserves Price Formation	October 1 Dependent on FERC	Markets Gateway UI and XML users



2022												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Reserves Price Formation						◆ Train: Jun 1				◆ Production: Oct 1		

Legend

- Start Date
- ◆ End Date



Background

- The Reserves project was initially approved by FERC in 2020, and again, post-remand, on December 22, 2021

The work described in the filing includes:

- Consolidation of Tier 1 and Tier 2 synchronized reserves
- Reserves alignment between the Realtime and Day Ahead markets. Including in both:
 - 10 minute reserves
 - 30 minute reserves
- Flexible subzones

March 14

- High-level review of Markets Gateway screen changes

April

- Markets Gateway Education Session

June 1

- Tentative opening of Reserves Train environment

October 1

- Project Go-live target

Note: The schedule is subject to change pending final FERC approval

- 3 categories
 - Retired screens
 - Modified screens
 - New screens

- Generator > Unit > Synchronized Reserve Ramp Rates
- Generator > Day-Ahead Scheduling Reserve Market
- Generator > Market Results > Day-Ahead Scheduling Reserve Award
- Public > Market Results Ancillary Services > Day-Ahead Scheduling Reserve Results
- Public > Reports > Synchronized Reserve Results
- Demand Response > Day-Ahead Scheduling Reserve Market
- Demand Response > Market Results > Day-Ahead Scheduling Reserve Award

Generator > Unit > Hourly Updates

Altered/Added Fields	Revision Type	Applicable To	Comments
Discharge Synch Max	Added	Energy Storage Resources	The Fields will only be present for units that have provided sufficient documentation and were granted permission to submit for Synch Max.
Charge Synch Max	Added	Energy Storage Resources	
Discharge Secondary Max	Added	Energy Storage Resources	
Charge Secondary Max	Added	Energy Storage Resources	
Flexible	Added	Energy Storage Resources	
Synch Max	Added	Non-Energy Storage Resources	
Secondary Max	Added	Non-Energy Storage Resources	
Area	Added	All Resources	New column will always be present

Generator > Unit > Detail

Altered/Added Fields	Revision Type	Applicable To	Comments
To Generate Time	Added	All Resources	Added to Condense section
Reserve as Condenser	Added	All Resources	Added to Condense section
Discharge Synch Max	Added	Energy Storage Resources	Added to Miscellaneous section
Charge Synch Max	Added	Energy Storage Resources	Added to Miscellaneous section
Discharge Secondary Max	Added	Energy Storage Resources	Added to Miscellaneous section
Charge Secondary Max	Added	Energy Storage Resources	Added to Miscellaneous section
Flexible Reserve	Added	Energy Storage Resources	Added to Miscellaneous section
Spin Max	Renamed	Non-Energy Storage Resources	Synch Max
Secondary Max	Added	Non-Energy Storage Resources	Added to Miscellaneous section
AllowPumpingUnitProvideReserve	Added	Hydro Pumped Storage	Added to Miscellaneous section

Generator > Synchronized Reserve Market > Offers

Altered/Added Fields	Revision Type	Applicable To	Comments
Condense Energy Use	Removed	All Resources	Exists in Unit Details screen
Condense Startup Cost	Removed	All Resources	Exists in Unit Details screen
Condense To Generate Cost	Removed	All Resources	Exists in Unit Details screen
Full Heat Rate	Removed	All Resources	Not Used - Dropped
Reduced Heat Rate	Removed	All Resources	Not Used - Dropped
Variable Operating & Maintenance Expense Rate	Removed	All Resources	Not Used - Dropped
Spin as Condenser	Removed	All Resources	Exists in Unit Details screen
Condense Available Status	Removed	All Resources	Exists in Unit Details screen
Flexible	Removed	Energy Storage Resources	Exists in Unit Details screen
Offer MW	Functional	Hydro & Energy Storage Resources	Only Hydro & ESR can modify

Generator > Synchronized Reserve Market > Updates

Altered/Added Fields	Revision Type	Applicable To	Comments
Self Scheduled MW	Removed	All Resources	Dropped
Spin Max	Removed	All Resources	Exists in Unit Details screen as Synch Max
Self Scheduled	Added	All Resources	Will show as “-“ or “self scheduled”
Charge Spin Max	Removed	Energy Storage Resources	Exists in Unit Details screen as Charge Synch Max
Flexible	Removed	Energy Storage Resources	Exists in Unit Details screen as Flexible Reserves
Offer MW	Functional	Hydro & Energy Storage Resources	Only Hydro & ESR can modify
Availability	Functional	Hydro & Energy Storage Resources	Only Hydro & ESR can modify

- Generator > Dispatch Lambda**

Altered/Added Fields	Revision Type	Applicable To	Comments
Tier 1	Removed	All Resources	
Tier 2	Removed	All Resources	
SR Assignment	Added	All Resources	

Generator > Market Results > Regulation and Reserve Award

Altered/Added Fields	Revision Type	Applicable To	Comments
Tier-2 Offer MW	Removed	All Resources	
Tier-1 Est MW	Removed	All Resources	
Tier-2 MW	Removed	All Resources	
Self-Sched MW	Renamed	All Resources	Self-Schedule MW
Reg A MW	Renamed	All Resources	Reg A Awarded MW
Reg D MW	Renamed	All Resources	Reg D Awarded MW
Reg TPS Result	Renamed	All Resources	TPS Result
Actual Hourly Performance	Renamed	All Resources	Performance Score

- **Generator > Market Results > Results**
 - Name Changed To: DA Energy Award

- **Public > Market Results Ancillary Services > Synchronized Reserve Results**
 - Name Changed To: RT Synchronized Reserve Results

Altered/Added Fields	Revision Type	Applicable To	Comments
Area	Added	All Resources	
Tier-1 Est Projected	Removed	All Resources	
Avail. Transfer Projected	Renamed	All Resources	Avail. Transfer Preliminary
Tier-2 Req. Projected	Removed	All Resources	
Tier-2 Self-Sched.	Renamed	All Resources	Self Scheduled
Tier-2 Assigned Preliminary	Renamed	All Resources	Assigned Preliminary

- **Public > Market Results Ancillary Services > Primary Reserve Results**
 - **Name Changed To: RT Primary Reserve Results**

Altered/Added Fields	Revision Type	Applicable To	Comments
Area	Added	All Resources	
Tier-1 Est Projected	Removed	All Resources	
Avail. Transfer Projected	Renamed	All Resources	Avail. Transfer Preliminary
Tier-2 Self-Scheduled	Renamed	All Resources	SR Self Scheduled
Tier-2 Assigned Preliminary	Renamed	All Resources	SR Assigned Preliminary
Non-Sync Reserve Est. Projected	Renamed	All Resources	NSR Assigned Preliminary

Public > Reports

Report Types

- Messages
- Node List
- Demand Summary
- Market Prices
- Interface Limits
- Net Tie Schedules
- Binding Limits
- Reliability Analysis Schedule MW
- Day-Ahead Schedule MW
- Regulation Results
- DA Synchronized Reserve Results
- RT Synchronized Reserve Results
- DA Primary Reserve Results
- RT Primary Reserve Results
- DA 30 Minute Reserve Results
- RT 30 Minute Reserve Results

Altered/Added Fields	Revision Type	Applicable To	Comments
DA Synchronized Results	Added	All Resources	
RT Synchronized Results	Added	All Resources	
DA Primary Results	Added	All Resources	
RT Primary Results	Added	All Resources	
DA 30 Minute Reserve Results	Added	All Resources	
RT 30 Minute Reserve Results	Added	All Resources	

- **Demand Response > Market Results > Regulation and Reserve Award**
 - **Name Changed To: Regulation Award**

Altered/Added Fields	Revision Type	Applicable To	Comments
Tier-2 Offer MW	Removed	All Resources	
Tier-2 MW	Removed	All Resources	
Reg A MW	Renamed	All Resources	Reg A Awarded MW
Reg D MW	Renamed	All Resources	Reg D Awarded MW
Reg TPS Result	Renamed	All Resources	TPS Result
Actual Hourly Performance Score	Renamed	All Resources	Performance Score

- Demand Response > Demand Response > Parameters**

Altered/Added Fields	Revision Type	Applicable To	Comments
Flexible Reserve	Added	Load Response Resources	Flexible Reserve Enabled

- Demand Response > Synchronized Reserve Market > Offers**

Altered/Added Fields	Revision Type	Applicable To	Comments
Available Status	Renamed	Load Response Resources	Availability
Flexible	Removed	Load Response Resources	

- Demand Response > Synchronized Reserve Market > Updates**

Altered/Added Fields	Revision Type	Applicable To	Comments
Self Scheduled MW	Renamed	Load Response Resources	Self Scheduled (“-“ or “self schedule”) no longer a MW value.
Available Status	Renamed	Load Response Resources	Availability

Screen	Fields
Generator > Non-Synchronized Reserve Market > Offers	<ul style="list-style-type: none"> • Location • Offer MW
Generator > Secondary Reserve Market > Updates	
Generator > Secondary Reserve Market > Offers	
Generator > Non-Synchronized Reserve Market > Updates	<ul style="list-style-type: none"> • Hour • Offer MW • Availability
Generator > Market Results > DA Secondary Reserve Award	<ul style="list-style-type: none"> • Location • Area • Offer MW • Awarded MW
Generator > Market Results > RT Secondary Reserve Award	
Generator > Market Results > DA Non-Synchronized Reserve Award	

Screen	Fields
Generator > Market Results > DA Synchronized Reserve Award	<ul style="list-style-type: none"> • Location • Area • Offer MW • Self-Scheduled MW • Awarded MW
Generator > Market Results > RT Synchronized Reserve Award	
Demand Response > Market Results > DA Synchronized Reserve Award	
Demand Response > Market Results > RT Synchronized Reserve Award	

Screen	Fields
Demand Response > Secondary Reserve Market > Offers	<ul style="list-style-type: none"> • Location • Offer MW • Availability
Demand Response > Secondary Reserve Market > Updates	
Demand Response > Markets Results > DA Secondary Reserve Award	<ul style="list-style-type: none"> • Location • Area • Offer MW • Awarded MW
Demand Response > Market Results > RT Secondary Reserve Award	

Screen	Fields
Public > Market Results Ancillary Services > DA Synchronized Reserve Results	<ul style="list-style-type: none"> • Hour • Area • Requirement • SR MCP • Avail. Transfer • Self Scheduled • Assigned • Total • Deficiency
Public > Market Results Ancillary Services > DA Primary Reserve Results	<ul style="list-style-type: none"> • Hour • Area • Requirement • SR MCP • PR MCP • Avail. Transfer • SR Self Scheduled • SR Assigned • NSR Assigned • Total • Deficiency

Screen	Fields	
Public > Market Results Ancillary Services > DA 30 Min Reserve Results	<ul style="list-style-type: none"> • Hour • Area • Requirement • SR MCP • PR MCP • 30 Minute MCP • Avail. Transfer 	<ul style="list-style-type: none"> • SR Self Scheduled • SR Assigned • NSR Assigned • Secondary Assigned • Total • Deficiency
Public > Market Results Ancillary Services > RT 30 Min Reserve Results	<ul style="list-style-type: none"> • Hour • Area • Requirement • Avail. Transfer Preliminary • SR Self Scheduled • SR Assigned Preliminary 	<ul style="list-style-type: none"> • NSR Assigned Preliminary • Secondary Assigned Preliminary • Total Preliminary • Deficiency Preliminary

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Product Details

[Markets Gateway](#) allows users to submit information and obtain data needed to conduct business in the Day-Ahead, Regulation and Synchronized Reserve Markets.

Key Product Features

- View Market Results
- Manage Generation and Load Response Portfolios
- Manage Ancillary Service Data
- Manage Market Offers and Transactions