

Midwest ISO & PJM Central Ramp Viewer



**Joint Stakeholder Meeting
February 1, 2008**



JCM Central Ramp Viewer: Overview

- The JCM Central Ramp Viewer displays the most recently available ramp values from both entities in a tabular format.
- The purpose of this screen is to give users a combined view of Midwest ISO and PJM ramp values that will facilitate transactions between the two entities.
- The ramp viewer is currently driven by a web-service that enables the exchange of ramp data between Midwest ISO and PJM every two minutes.

JCM Central Ramp Viewer: Location

Hosted on the Midwest ISO-PJM Joint and Common Market website.

URL: <http://www.jointandcommon.com/>

The screenshot shows a Microsoft Internet Explorer browser window displaying the homepage of the Midwest ISO-PJM Joint and Common Market website. The address bar shows the URL <http://www.jointandcommon.com/index.html>. The page features a navigation menu with the following items: "The Joint and Common Market", "Working Groups", "Markets", "Documents", and "Calendars". A red arrow points to the "Markets" menu item, which has opened a dropdown menu. The dropdown menu contains the following options: "JCM Real-time Data", "JCM Contour Map", "JCM 5 Minute Data", and "JCM Ramp Viewer". A red arrow points to the "JCM Ramp Viewer" option. The page also displays the text "Welcome to the Midwest ISO-PJM Joint and Common Market Web site" and "Midwest ISO Interconnection".

JCM Central Ramp Viewer: Data Display

Ramp viewer controls and documentation

Table contains the next 48hrs of Midwest ISO and PJM ramp data

*historical ramp data is not available

The screenshot shows the JCM Central Ramp Viewer interface. At the top, there is a navigation bar with the text "joint and common market" and a search bar. Below the navigation bar, there are links for "The Joint and Common Market", "Working Groups", "Markets", "Documents", and "Calendars". The main heading is "JCM MISO-PJM Ramp Data". Below this, there are two time slots: "Midwest ISO: January 22, 2008, 06:19:00" and "PJM Interconnection: January 22, 2008, 07:19:00". The interface includes a "Location" dropdown menu set to "PJM", a link to a "README (ramp viewer description document)", and a checkbox for "Auto Refresh ON" which is checked. There is a "Refresh NOW" button and a "XML" link. Below these are radio buttons for "Composite", "MISO", and "PJM", with "PJM" selected. The main data is presented in a table with three columns: "Effective Date", "Available Import MW", and "Available Export MW". The table contains 14 rows of data, with the last row showing "Intervals displayed: 194". At the bottom of the interface, there are logos for "Midwest ISO" and "pjm".

Effective Date	Available Import MW	Available Export MW
01/22/2008 07:15 EST	1479	415
01/22/2008 07:30 EST	950	975
01/22/2008 07:45 EST	500	1500
01/22/2008 08:00 EST	0	1427
01/22/2008 08:15 EST	1369	600
01/22/2008 08:30 EST	1000	1000
01/22/2008 08:45 EST	1000	1000
01/22/2008 09:00 EST	902	454
01/22/2008 09:15 EST	1000	1000
01/22/2008 09:30 EST	1000	1000
01/22/2008 09:45 EST	1000	1000
01/22/2008 10:00 EST	731	914
01/22/2008 10:15 EST	1000	1000
01/22/2008 10:30 EST	1000	1000
01/22/2008 10:45 EST	1000	1000
01/22/2008 11:00 EST	1258	484
01/22/2008 11:15 EST	1000	1000
01/22/2008 11:30 EST	1000	1000
01/22/2008 11:45 EST	1000	1000
01/22/2008 12:00 EST	925	1038

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JCM Central Ramp Viewer: Controls

Choose viewing location (only available in "Composite" view)

Ramp viewer documentation

The screenshot shows the 'JCM MISO-PJM Ramp Data' interface. At the top, it displays 'Midwest ISO: January 22, 2008, 06:19:00' and 'PJM Interconnection: January 22, 2008, 07:19:00'. Below this, there is a 'Location:' dropdown menu currently set to 'PJM'. To the right of the dropdown is a link for '- README (ramp viewer description document)'. Further right are three radio buttons for 'Composite', 'MISO', and 'PJM', with 'Composite' selected. Below the dropdown is a checkbox for 'Auto Refresh ON' which is checked. To its right is a 'Refresh NOW' button. Further right is a printer icon and an 'XML' button. A blue bracket groups the 'Composite', 'MISO', and 'PJM' radio buttons.

Toggle Auto-Refresh (one-minute refresh)

Manual Refresh

Launch a printer-friendly page

Download an XML copy of the table

Change Displayed Ramp Data
Default: "Composite"

JCM Central Ramp Viewer: Displayed Data

Ramp data is displayed to users as “Available Import MW” and “Available Export MW” in order to show the feasibility of starting a new schedule.

For example, if the “Available Import MW” value is 1479 MW at 07:15, users will be able to start an import schedule less than or equal to 1479 MW at that time.

Effective Date	Available Import MW	Available Export MW
01/22/2008 07:15 EST	1479	415
01/22/2008 07:30 EST	950	975
01/22/2008 07:45 EST	500	1500
01/22/2008 08:00 EST	0	1427
01/22/2008 08:15 EST	1369	600
01/22/2008 08:30 EST	1000	1000
01/22/2008 08:45 EST	1000	1000
01/22/2008 09:00 EST	902	454
01/22/2008 09:15 EST	1000	1000
01/22/2008 09:30 EST	1000	1000
01/22/2008 09:45 EST	1000	1000
01/22/2008 10:00 EST	731	914
01/22/2008 10:15 EST	1000	1000
01/22/2008 10:30 EST	1000	1000
01/22/2008 10:45 EST	1000	1000
01/22/2008 11:00 EST	1258	484
01/22/2008 11:15 EST	1000	1000
01/22/2008 11:30 EST	1000	1000
01/22/2008 11:45 EST	1000	1000
01/22/2008 12:00 EST	925	1038

Intervals displayed: 194

JCM Central Ramp Viewer: “Composite” View

The default view shows “Composite” values, which is a display of the more limiting of the Midwest ISO or PJM ramp values. Displaying data from both entities as a composite requires the user to choose a “Location” (MISO or PJM) from which the data should be viewed. This is accomplished via a dropdown box labeled “Location” above the ramp viewer.

Example: Location = MISO

Midwest ISO Available Import: 950 MW
Midwest ISO Available Export: 1050 MW
PJM Available Import: 1097 MW
PJM Available Export: 153 MW

- The Available Import MW will be displayed as 153 MW. Although Midwest ISO can import 950 MW, PJM can only export 153 MW.
- The Available Export MW will be displayed as 1050 MW. Although PJM can import 1097 MW, Midwest ISO can only export 1050 MW.

Using that same logic, choosing PJM as the location would result in:
Available Import MW = 1050 MW and Available Export MW = 153.

Future Plans

- Midwest ISO-PJM JCM Central Ramp Viewer enhancements
 - Add graphical display of ramp data
 - Projected Completion: Q1 2008

- Midwest ISO-PJM JCM Common Ramp Portal
 - Effort to enable the ability for users to reserve ramp in both Midwest ISO and PJM simultaneously
 - Projected Start: Mid-March 2008
 - Projected Completion: Q4 2008

Questions?

