• PJM Wholesale Cost 2022 is $93.23/MWh, up from full-year 2021 costs of $64.07/MWh. (Slides 5 & 6)

• Slides pertaining to weather conditions, in addition to slides showing average fuel prices, generation on-line fuel mixes, and System Marginal Prices have been combined into a Market Conditions section. (Slides 8-22)

• In June, temperatures were above average for most of the month. Thus, the sum of Heating and Cooling Degree Days was also above its historic average. (Slides 8-10)

• Energy use was also above its historic average for June. (Slides 8-10)

• In June, uplift exceeded $800,000 on nine days. (Slides 27 & 28)
• Load-weighted average LMP for 2021 is $67.76/MWh: (Slides 39-41)
  – June 2022 was $97.90/MWh, which is higher than June 2021 ($34.10/MWh) and June 2020 ($20.50/MWh).

• There were 35 5-minute intervals that experienced shortage pricing in June. (Slides 34-38)

• FTR revenue adequacy for the month of June is 95% and the 2022-2023 Planning Year is currently funded at 95%. (Slides 56-59)

• Congestion values have been trending upwards. June’s value is much more in line with recent history than May’s. (Slide 57)

• Regulation and Synchronized Reserve market costs have generally tracked with energy prices over time. (Slides 72-74)
Markets Report
Market Conditions
• The weather parameter shown in the following slide is a monthly sum of daily Heating Degree Days (HDD) and Cooling Degree Days (CDD).

• Degree days represent a deviation from a baseline temperature, in this case 60 degrees for HDD and 65 degrees for CDD. As temperatures get more extreme, colder or hotter, either HDDs or CDDs, respectively, will increase.

• Typically, winter months will only record HDDs, while summer months will only record CDDs. Shoulder months may have both HDDs and CDDs.

• Degree Days are calculated using a daily load weighting that weights values from stations in each TO zone according to the zonal contribution to the RTO peak on that day.

• Average values use data from 1998 to the most recent complete year, in this case, 2021. Averages include load data for all of TO zones in the current RTO footprint.
Historic Average Weather and Energy versus Current Month

- Current Month Total Energy
- Current Month HDD+CDD
- Average Monthly Total Energy
- Average Monthly HDD + CDD

TWh

Heating Degree Days + Cooling Degree Days
Historic Average Weather and Energy versus Current Month - Daily

Percent of Daily Average

- Daily Energy as a Percent of the Historic Average for June
- Daily HDD + CDD as a Percent of the Historic Average for June
- Daily Temperature as a Percent of the Historic Average for June
Positive values represent days when the DA daily average price was higher than RT. Negative values represent days when the DA price was lower.
Load Forecast Error - Monthly Absolute Error, 10:00 Forecast

The chart illustrates the load forecast error for all hours, peak hours only, winter, and summer. The error rates are shown for each month from June 2020 to June 2022. The error percentages are displayed on a scale from 0.0% to 3.0%. The chart also includes dashed lines for 25-month average error rates.
Load Forecast Error - June Daily Peaks, 10:00 Forecast

Error at Peak Hour
Weekend / Holiday
Load Forecast Error (18:00) – Monday, June 13, 2022

- Significant, widespread under-forecasting of temperatures throughout entire RTO
- First occurrence of extremely high heat indices this year
- Drastic increase in temperature and load from previous day (Sunday)
- Storms, which would have lowered load, did not materialize until after the load peak
Load Forecast Error (18:00) – Tuesday, June 14, 2022

- High load forecast initially
  - Heat expected to intensify in the west
  - Storms expected, but location uncertain
  - Under-forecasting previous day
- Over-forecasting of temperatures, significant in some zones due to storm activity
- Ongoing customer outages from severe weather the night before

Increasing temperatures and under-forecasting from previous day contributed to decision to make PJM Forecast high.
• PJM prepares a day-ahead load forecast at 10:00 am for use by our members.

• This forecast is not used to clear the day-ahead market and is not utilized for the reliability tools that run subsequent to the day-ahead market.

• The especially challenging combination of anticipated hot weather and risk of storms continued to plague our forecasting efforts in June. This led, in large part, to a string of difficult-to-forecast days during the week of June 13. On Monday the 13th, the day with the highest error at the peak, storms didn’t materialize until later in the evening. Daytime temperatures were under-forecasted, and we experienced extreme heat indices, upwards of 100° in many places, for the first time this season. Storm activity during the remainder of the week led, in many cases, to significant over-forecasting of temperatures. Paired with ongoing customer outages due to the severe weather early in the week, peak loads were generally over-forecasted.
Monthly Generation by Fuel

'Mother' includes Hydro, Oil, Solar, Wind, and Other
'Other' includes Flywheels, Multiple Fuels, Storage, and Other Renewables
'Other' includes Hydro, Oil, Solar, Wind, and Other
Daily Generation by Fuel, Other - June

'Mother' includes Flywheels, Multiple Fuels, Storage, and Other Renewables
Operating Reserve

(Uplift)
Monthly Uplift

- Day-Ahead Operating Reserve
- Balancing Operating Reserve
- Reactive
- Blackstart
- Lost Opportunity Cost

$ Millions
Monthly Uplift - $/MWh Load

- Day-Ahead Operating Reserve
- Balancing Operating Reserve
- Reactive
- Blackstart
- Lost Opportunity Cost

$/MWh

JUN20, JUL20, AUG20, SEP20, OCT20, NOV20, DEC20, JAN21, FEB21, MAR21, APR21, MAY21, JUN21, JUL21, AUG21, SEP21, OCT21, NOV21, DEC21, JAN22, FEB22, MAR22, APR22, MAY22, JUN22
• In June, uplift exceeded $800,000 on nine days -

• Contributing factors to uplift were:

• Our reliability needs, compounded by the hot weather and forecast error as we transitioned to higher load days, were the primary drivers of uplift for June. For BOR, the volatility of localized congestion caused us to run CTs longer through the evening peaks. Additionally, we had quite a few high load days, some with unit trips that caused us to need to run more uneconomic CTs. For DA OR, the localized congestion limiting our north to south flows on smaller scale have been a big factor similar to the impact on the higher numbers we see on BOR. As for LOC, the majority of the LOC was from CTs which we could not run for constraints that materialized in Real Time.

• More information on Uplift can be found on the PJM website at [Drivers of Uplift](#).
Percent of Total CT, CC and Steam Hours with LMP < Offer
Beginning in December 2008, the daily Balancing Operating Reserves (BOR) rate was replaced with six different BOR rates: RTO BOR for Reliability Rate, RTO BOR for Deviations Rate, East BOR for Reliability Rate, East BOR for Deviations Rate, West BOR for Reliability Rate, West BOR for Deviations Rate.

Reliability rates are charged to all real-time load and exports, whereas deviation rates, as before, are charged only to real-time deviations. RTO rates are charged to the whole footprint, whereas East and West rate adders are charged based on location.
Deviations Balancing Operating Reserve Rates

The chart illustrates the trend of Deviations Balancing Operating Reserve Rates from June 2020 to June 2022. Rates are categorized into three regions: RTO, East, and West, with each region represented by a different line color. The y-axis represents the rate in dollars per MWh ($/MWh), while the x-axis represents the months from June 2020 to June 2022.

The RTO region shows a generally upward trend with peaks in August 2020, March 2021, and August 2021, followed by a steady decline. The East region exhibits a more erratic pattern with noticeable spikes in November 2021 and March 2022, while the West region remains relatively flat throughout the period.

This visualization helps in understanding the fluctuation and trend of operating reserve rates across different regions over the specified time frame.
Energy Market
LMP Summary
## Shortage Pricing - June

<table>
<thead>
<tr>
<th>Date</th>
<th>5-Minute Interval</th>
<th>Reserve Penalty Factors</th>
<th>5-Minute Interval SMP</th>
<th>Hourly Integrated SMP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday, June 13, 2022</td>
<td>14:55 - 15:00</td>
<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$1,009.91</td>
<td>$296.97</td>
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<td>Monday, June 13, 2022</td>
<td>15:00 - 15:05</td>
<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Synchronized Reserves; MAD Primary Reserves</td>
<td>$2,747.42</td>
<td>$1,317.72</td>
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<tr>
<td>Monday, June 13, 2022</td>
<td>15:05 - 15:10</td>
<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Synchronized Reserves; MAD Primary Reserves</td>
<td>$1,488.34</td>
<td>$1,317.72</td>
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<td>RTO Primary Reserves</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Primary Reserves</td>
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<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Synchronized Reserves; MAD Primary Reserves</td>
<td>$2,994.09</td>
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<td>Reserve Penalty Factors</td>
<td>5-Minute Interval SMP</td>
<td>Hourly Integrated SMP</td>
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<tr>
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<td>$2,330.65</td>
<td>$2,639.71</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Primary Reserves</td>
<td>$2,644.56</td>
<td>$2,639.71</td>
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<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$2,325.88</td>
<td>$2,639.71</td>
</tr>
<tr>
<td>Monday, June 13, 2022</td>
<td>16:25 - 16:30</td>
<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Synchronized Reserves; MAD Primary Reserves</td>
<td>$3,079.63</td>
<td>$2,639.71</td>
</tr>
<tr>
<td>Monday, June 13, 2022</td>
<td>16:30 - 16:35</td>
<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Synchronized Reserves; MAD Primary Reserves</td>
<td>$3,124.70</td>
<td>$2,639.71</td>
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<td>Monday, June 13, 2022</td>
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<td>$2,598.24</td>
<td>$2,639.71</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$2,076.97</td>
<td>$2,639.71</td>
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<td>Monday, June 13, 2022</td>
<td>16:45 - 16:50</td>
<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Synchronized Reserves; MAD Primary Reserves</td>
<td>$3,045.75</td>
<td>$2,639.71</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Synchronized Reserves; RTO Primary Reserves; MAD Primary Reserves</td>
<td>$2,605.72</td>
<td>$2,639.71</td>
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<td>$1,912.79</td>
<td>$2,639.71</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$1,609.78</td>
<td>$1,586.15</td>
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</tbody>
</table>
## Shortage Pricing - June

<table>
<thead>
<tr>
<th>Date</th>
<th>5-Minute Interval</th>
<th>Reserve Penalty Factors</th>
<th>5-Minute Interval SMP</th>
<th>Hourly Integrated SMP</th>
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</thead>
<tbody>
<tr>
<td>Monday, June 13, 2022</td>
<td>17:05 - 17:10</td>
<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$2,064.39</td>
<td>$1,586.15</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$726.66</td>
<td>$1,586.15</td>
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<tr>
<td>Monday, June 13, 2022</td>
<td>17:15 - 17:20</td>
<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$1,301.03</td>
<td>$1,586.15</td>
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<tr>
<td>Monday, June 13, 2022</td>
<td>17:20 - 17:25</td>
<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$1,301.03</td>
<td>$1,586.15</td>
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<td>17:25 - 17:30</td>
<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$1,255.02</td>
<td>$1,586.15</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$1,872.07</td>
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<td>$1,875.51</td>
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<td>Monday, June 13, 2022</td>
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<td>$1,880.32</td>
<td>$1,586.15</td>
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<td>Monday, June 13, 2022</td>
<td>17:45 - 17:50</td>
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<td>$2,556.89</td>
<td>$1,586.15</td>
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<td>Monday, June 13, 2022</td>
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<td>$1,920.32</td>
<td>$1,586.15</td>
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<td>Monday, June 13, 2022</td>
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<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$697.83</td>
<td>$1,586.15</td>
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<td>RTO Primary Reserves; MAD Primary Reserves</td>
<td>$1,839.79</td>
<td>$398.59</td>
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<td>RTO Synchronized Reserves; MAD Synchronized Reserves</td>
<td>$1,650.84</td>
<td>$338.15</td>
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<td>Date</td>
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<td>Reserve Penalty Factors</td>
<td>5-Minute Interval SMP</td>
<td>Hourly Integrated SMP</td>
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<tr>
<td>-------------------------</td>
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</tr>
<tr>
<td>Monday, June 27, 2022</td>
<td>17:10 - 17:15</td>
<td>RTO Synchronized Reserves</td>
<td>$695.34</td>
<td>$338.15</td>
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<td>Wednesday, June 29, 2022</td>
<td>16:30 - 16:35</td>
<td>RTO Synchronized Reserves; MAD Synchronized Reserves</td>
<td>$1,099.05</td>
<td>$203.08</td>
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</tbody>
</table>

Information on constraints and shadow prices can be found here:

http://dataminer2.pjm.com/feed/rt_marginal_value
Fuel Cost Adjusted LMP (Referenced to 1999 Fuel Prices)
Spikes seen in March and April 2021 are incorrect and due to a software bug which has since been fixed.
Energy Market

Demand Response Summary
Demand Side Response Estimated Revenue

$ Millions

- Capacity
- Ancillary Services
- Emergency Energy
- Economic Energy
- Economic Energy Incentives

Years: 2008 to 2022
Economic Demand Response Activity

*Data for the last few months are subject to significant change due to the settlement window.
Total Registered MW in PJM's Economic Demand Response
Energy Market

Virtual Activity Summary
The following six charts depict trends in submitted and cleared virtual and up-to-congestion transactions, in terms of number and volume, into the PJM Energy Market. The first two of these charts show the submitted and cleared increment and decrement bids (virtual transactions or virtuals) and they are the same as what was previously being presented in this report. The two charts after them display the trends in submitted and cleared up-to-congestion transactions into the PJM Energy Market. The last two of these six charts combine the virtual and up-to-congestion transactions and show the sum of these two categories.

To clarify what a bid or transaction is, please consider the following example: An offer (increment, decrement or up-to-congestion) of 10 MW, valid for eight hours for a given day, is captured in the charts as eight submitted bids/transactions and 80 submitted MWh. If this offer fully clears for three of the hours it was submitted for, it shows in the charts as three cleared bids/transactions and 30 cleared MWh.
Virtual Bids (INC & DEC) - Total Number

Number of Bids (Millions)

- Submitted Bids
- Cleared Bids
Virtual Bids (INCs & DECs) - Total Volume

MWh (Millions)

Submitted MWh
Cleared MWh

JUN20 JUL20 AUG20 SEP20 OCT20 NOV20 DEC20 JAN21 FEB21 MAR21 APR21 MAY21 JUN21 JUL21 AUG21 SEP21 OCT21 NOV21 DEC21 JAN22 FEB22 MAR22 APR22 MAY22 JUN22
Up-To-Congestion Transactions - Total Number

Number of Transactions (Millions)

- Submitted Transactions
- Cleared Transactions

|--------|-----------|-----------|-------------|----------------|--------------|---------------|---------------|--------------|--------------|------------|------------|-----------|-----------|-----------|----------------|----------------|----------------|----------------|----------------|----------------|-------------|-----------|-----------|-----------|-----------|
INCs, DECs and Up-To-Congestion Transactions - Total Number
Energy Market

Congestion and FTR Summary
<table>
<thead>
<tr>
<th>Period</th>
<th>Surplus / Underfunding</th>
<th>Payout Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>June 2022</td>
<td>$-11,318,859</td>
<td>95%</td>
</tr>
<tr>
<td>2022</td>
<td>$82,787,162</td>
<td>100%</td>
</tr>
<tr>
<td>2022/2023</td>
<td>$-11,318,859</td>
<td>95%</td>
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</tbody>
</table>
The ten most heavily congested facilities account for 67% of total congestion for June.
Ten Most Heavily Congested Transmission Facilities - Overall, 2022

The ten most heavily congested facilities account for 57% of total congestion for 2022.
Energy Market

Interchange/Seams Summary
Monthly Average MISO Interface Pricing

The graph shows the monthly average MISO Interface Pricing over the period from June 2020 to June 2022. The pricing is measured in dollars per megawatt hour ($/MW/h). The graph includes the following data series:

- PJM MISO Price (RT)
- MISO PJM Price (RT)
- PJM MISO Price (DA)
- MISO PJM Price (DA)
Monthly Average NYISO Interface Pricing

- PJM NYISO Price (RT)
- NYISO PJM Price (RT)
- PJM NYISO Price (DA)
- NYISO PJM Price (DA)
Hourly Difference Between PJM and MISO Real-Time Prices

Positive values represent hours when the PJM price was higher. Negative values represent hours when the PJM price was lower.

Average price difference for June = $4.66
Percent of hours in which the direction of flow is consistent with price differentials = 55.14%
Hourly Difference Between PJM and MISO Day-Ahead Prices

Positive values represent hours when the PJM price was higher. Negative values represent hours when the PJM price was lower.

Average price difference for June = $-2.46

No further information or data points provided in the image.
Hourly Difference Between PJM and NYISO Real-Time Prices

Positive values represent hours when the PJM price was higher. Negative values represent hours when the PJM price was lower.

Average price difference for June = $0.75
Percent of hours in which the direction of flow is consistent with price differentials = 55.42%
Hourly Difference Between PJM and NYISO Day-Ahead Prices

Positive values represent hours when the PJM price was higher. Negative values represent hours when the PJM price was lower.

Average price difference for June = $1.53
PJM-MISO Market-to-Market Coordination Settlement

Negative M2M Credit represents PJM payment to MISO

Chart showing the Net M2M Credit ~ MISO ($ Millions) and Net M2M Credit ~ MISO/Total FTR Targets (%) for the months from JUN20 to JUN22.
PJM-NYISO Market-to-Market Coordination Settlement

$ Millions

Net M2M Credit ~ NYISO ($ Millions)
Net M2M Credit ~ NYISO/Total FTR Targets (%)

Negative M2M Credit represents PJM payment to NYISO
Ancillary Service Market
Summary
Synchronized Reserve and Synchronous Condenser Costs

$ Millions

Synchronized Reserve Market Payments
Synchronous Condenser Payments

JUN20  JUL20  AUG20  SEP20  OCT20  NOV20  DEC20  JAN21  FEB21  MAR21  APR21  MAY21  JUN21  JUL21  AUG21  SEP21  OCT21  NOV21  DEC21  JAN22  FEB22  MAR22  APR22  MAY22  JUN22
Load-Adjusted Synchronized Reserve and Synchronous Condenser Costs
DR Participation in PJM Regulation Markets

- Total Payments ($ Millions)
- MWh Cleared (MWh)

$ Millions

$0.0 $0.2 $0.4 $0.6 $0.8

MWh

0 5,000 10,000 15,000

DR Participation in PJM Synchronized Reserve Markets

- **Total Payments ($ Millions)**
- **MWh Cleared (MWh)**

The chart shows the total payments and MWh cleared for different months from June 2020 to June 2022.
Regulation Market Daily Prices and Charges

- Total Daily Regulation Charges ($ Millions)
- Minimum Interval Price ($/MWh)
- Average Interval Price ($/MWh)
- Maximum Interval Price ($/MWh)
Synchronized Reserve Market Daily Prices and Charges

- Total Daily Synchronized Reserve Charges ($ Millions)
- Minimum Interval Price ($/MWh)
- Average Interval Price ($/MWh)
- Maximum Interval Price ($/MWh)

$ Millions

$0.0 $3.0 $6.0 $9.0 $12.0 $15.0

$/MWh

$0 $500 $1,000 $1,500 $2,000 $2,500

01JUN22 02JUN22 03JUN22 04JUN22 05JUN22 06JUN22 07JUN22 08JUN22 09JUN22 10JUN22 11JUN22 12JUN22 13JUN22 14JUN22 15JUN22 16JUN22 17JUN22 18JUN22 19JUN22 20JUN22 21JUN22 22JUN22 23JUN22 24JUN22 25JUN22 26JUN22 27JUN22 28JUN22 29JUN22 30JUN22
Jennifer Warner-Freeman
Jennifer.Freeman@pjm.com

Member Hotline
(610) 666 – 8980
(866) 400 – 8980
custsvc@pjm.com