HELPING OUR MEMBERS WORK TOGETHER TO KEEP THE LIGHTS ON... TODAY AND IN THE FUTURE.
Market-to-Market

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Overview

• What is Market-to-Market?
• What are the benefits of Market-to-Market?
• How does Market-to-Market impact the Missouri ratepayers?
• Recent Activities
What is Market-to-Market?

• The fundamental philosophy of the SPP/MISO interregional transmission congestion coordination process (aka Market-to-Market) is to set up procedures to allow any flowgates that are significantly impacted by generation dispatch changes in both markets to be jointly managed in the security constrained economic dispatch models of both RTOs

• Detailed in Attachment 2 - Interregional Coordination Process (ICP) of the MISO-SPP Joint Operating Agreement
  • https://www.spp.org/spp-documents-filings/?id=18418
What are the benefits of Market-to-Market?

- Jointly manage flowgates near the market borders
- Provide a more efficient and lower cost transmission congestion management solution
- Provide coordinated pricing at the market boundaries
How does Market-to-Market impact the Missouri ratepayers?

- Process results in financial settlements between SPP and MISO, depending on the actual use of the transmission system in relation to entitlements on the constraint.

- Charges or credits are uplifted to the markets through Revenue Neutrality Uplift (RNU).
  - Each Market Participant’s portion is dependent on market activity.

- Market-to-Market settlements since implementation of process (March 1, 2015) through June 30, 2017 = $21,745,151.83 payment from MISO to SPP.
M2M History Summary

M2M Settlements since Go-Live

$21,745,151.83 to SPP through June 2017

Note: Positive values are payments to SPP from MISO; negative values are payments from SPP to MISO.
# Top 10 Flowgates since M2M Go-Live

<table>
<thead>
<tr>
<th>Position</th>
<th>FG</th>
<th>Description</th>
<th>Control Zone</th>
<th>GRAND_TOTAL</th>
<th>DIRECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SWPP_5375</td>
<td>Neosho - Riverton 161kV ftlo Neosho - Blackberry 345kV</td>
<td>EDE, WR</td>
<td>$5,411,180.94</td>
<td>MISO Pays SPP</td>
</tr>
<tr>
<td>2</td>
<td>SWPP_5501</td>
<td>CBLUFFS - SUB3456 345 kV ftlo ROLLHILS - MADNCO 345 kV</td>
<td>MEC, OPPD</td>
<td>$3,273,359.90</td>
<td>MISO Pays SPP</td>
</tr>
<tr>
<td>3</td>
<td>MISO_1967</td>
<td>Arkansas_PleasantHills500kv_ftlo_Arkansas_Mabelvale500kv</td>
<td>EAI</td>
<td>$2,560,809.13</td>
<td>MISO Pays SPP</td>
</tr>
<tr>
<td>4</td>
<td>SWPP_6126</td>
<td>S1226-Tekamah 161kV flo S3451-Raun 345kV</td>
<td>MEC, OPPD</td>
<td>$1,647,453.33</td>
<td>MISO Pays SPP</td>
</tr>
<tr>
<td>5</td>
<td>SWPP_21945</td>
<td>Beulah - Haliday 115kV ftlo Antelope Valley - Charlie Creek 345kV Ckt 2</td>
<td>WAUE, MDU</td>
<td>-$1,631,418.08</td>
<td>SPP Pays MISO</td>
</tr>
<tr>
<td>6</td>
<td>SWPP_21012</td>
<td>TEMP03 Fort Smith 500/161 kV XFR (flo) Fort Smith 500/345 kV XFR</td>
<td>OKGE</td>
<td>$1,598,072.57</td>
<td>MISO Pays SPP</td>
</tr>
<tr>
<td>7</td>
<td>SWPP_5577</td>
<td>Nashua 345/161 kV Transformer ftlo Nashua - Hawthorn 345kV</td>
<td>KCPL</td>
<td>$1,567,723.32</td>
<td>MISO Pays SPP</td>
</tr>
<tr>
<td>8</td>
<td>MISO_6012</td>
<td>PR_ISLD - NROCH 345 kV</td>
<td>NSP/SMP</td>
<td>-$1,533,899.25</td>
<td>SPP Pays MISO</td>
</tr>
<tr>
<td>9</td>
<td>MISO_22761</td>
<td>DKSND_ND - Matthson 115KV flo Belfield - Charlie Creek 345 kV</td>
<td>MDU, WAUE</td>
<td>-$1,296,663.87</td>
<td>SPP Pays MISO</td>
</tr>
<tr>
<td>10</td>
<td>MISO_21262</td>
<td>MCHENRY_230_115_TR_FLO_LELANDOLDS_LOGAN</td>
<td>GRE</td>
<td>-$1,230,983.98</td>
<td>SPP Pays MISO</td>
</tr>
</tbody>
</table>

Note: Positive values are payments to SPP from MISO; negative values are payments from SPP to MISO.
Recent Activities

• In an effort to better meet the objectives of Market-to-Market, MISO and SPP agreed in a Memorandum of Understanding (MOU) to 9 specific process improvements with a commitment to continue discussing other improvements

• SPP and MISO discussing ways to address Market-to-Market congestion in the regional and interregional planning processes
Questions?

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