

# August 2007 Tie-line & Generator Hourly Meter Data Management Report

## Tie-line Hourly Meter Data Revision Summary

### Summary of Changes Between Issuance of Initial Invoice & 1<sup>st</sup> Opportunity to Correct/Update

The following is a summary of the hourly tie-line meter data changes that were observed during the period between August 2007's initial invoicing (September 10, 2007) and when the database was locked down to afford counter-party Meter Authorities the opportunity to analyze & challenge the data submitted by the tie-lines' Meter Authorities (October 12, 2007).

- A total of 9,812 MWh of tie-line data changes, affecting 40 tie-lines, were received from Transmission Owners during this period.
- The affected tie-lines span four Meter Authorities, with the distribution of changes as follows:
  - Meter Authority A: Three tie-lines  $\Rightarrow$  73 MWh (0.7%) of the 9,812 MWh of changes;
  - Meter Authority C: Three tie-lines  $\Rightarrow$  365 MWh (3.7%) of the 9,812 MWh of changes;
  - Meter Authority D: Twenty-Six tie-lines  $\Rightarrow$  9,058 MWh (92.3%) of the 9,812 MWh of changes;
  - Meter Authority E: Thirteen tie-lines  $\Rightarrow$  316 MWh (3.3%) of the 9,812 MWh of changes.
- Hourly Analysis:
  - All hours of the month experienced at least an 7.469 MWh change in tie-line data.
  - The largest single hourly change was 67.53 MWh on August 22 at 03:00.
  - The average hourly change was 13.188 MWh.
  - The median hourly change was 12.5 MWh, with a standard deviation of 4.5 MWh.
- Tie-line Specific Analysis:
  - The median change for the affected tie-lines for the month was 21 MWh, with a standard deviation of 825 MWh. To put this into perspective:
    - Two of the forty tie-lines accounted for 8,132 MWh of the 9,812 MWh of changes [Tie I = 4,385 MWh & Tie J = 3,747 MWh];
    - One tie-line accounted for 810 MWh of the 9,812 MWh of changes for the month;
    - Twenty-One tie-lines changed between 10 MWh and 83 MWh, accounting for a total of 826 MWh of the 9,812 MWh of changes for the month; and
    - The remaining sixteen tie-lines changed between 0.054 MWh and 9.26 MWh, accounting for the remaining 44 MWh of the 9,812 MWh of changes for the month.

# August 2007 Tie-line & Generator Hourly Meter Data Management Report

## Generator Hourly Meter Data Revision Summary

### Summary of Changes Between Issuance of Initial Invoice & 1<sup>st</sup> Opportunity to Correct/Update

The following is a summary of the generator hourly meter data changes that were observed during the period between August 2007's initial invoicing (September 10, 2007) and when the database was locked down to afford generators the opportunity to analyze & challenge the data submitted by their respective Meter Authorities (October 12, 2007).

- A total of 5,089 MWh of generator data changes, affecting 67 generators, were received from Meter Authorities during this period.
- The affected generators span seven Meter Authorities, with the distribution of changes as follows:
  - Meter Authority A: Five generators ⇒ 68 MWh (1.2%) of the 5,089 MWh of changes;
  - Meter Authority B: Two generators ⇒ 91 MWh (1.8%) of the 5,089 MWh of changes;
  - Meter Authority C: Three generators ⇒ 315 MWh (6.2%) of the 5,089 MWh of changes;
  - Meter Authority D: Fifty-Two generators ⇒ 3,673 MWh (72.2%) of the 5,089 MWh of changes;
  - Meter Authority E: Three generators ⇒ 39 MWh (0.8%) of the 5,089 MWh of changes;
  - Meter Authority F: One generator ⇒ 187 MWh (3.7%) of the 5,089 MWh of changes;
  - Meter Authority G: One generator ⇒ 716 MWh (14.1%) of the 5,089 MWh of changes.
- Hourly Analysis:
  - All hours of the month experienced at least a 1.261 MWh change in generator data.
  - The largest single hourly change was 41.5 MWh on August 23 at 2:00.
  - The average hourly change was 6.8 MWh.
  - The median hourly change was 4.814 MWh, with a standard deviation of 5.212 MWh.
- Generator-Specific Analysis:
  - The median change for the affected generators for the month was 29 MWh, with a standard deviation of 318 MWh. To put this into perspective:
    - Two of the sixty-seven generators accounted for 1,490 MWh of the 5,089 MWh of changes [Gen U = 774 MWh & Gen V = 716 MWh];
    - Twelve generators changed between 113 MWh and 491 MWh, accounting for a total of 2,509 MWh of the 5,089 MWh of changes for the month;
    - Twenty-Four generators changed between 10 MWh and 96.3 MWh, accounting for a total of 1,028 MWh of the 5,089 MWh of changes for the month; and
    - The remaining twenty-nine generators changed between 0.002 MWh and 7.3 MWh, accounting for the remaining 62 MWh of the 5,089 MWh of changes for the month.