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

## Tie-line Hourly Meter Data Revision Summary

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

The following is a summary of the tie-line hourly meter data changes that were observed during the period between May 2007's initial invoicing (June 7, 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 (July 12, 2007).

- A total of 12,019 MWh of tie-line data changes, affecting 23 tie-lines, were received from Transmission Owners during this period.
- The affected tie-lines span five Meter Authorities, with the distribution of changes as follows:
  - Meter Authority A: Four tie-lines ⇒ 355 MWh (3%) of the 12,019 MWh of changes;
  - Meter Authority B: Two tie-lines ⇒ 3,797 MWh (32%) of the 12,019 MWh of changes;
  - Meter Authority C: One tie-line ⇒ 7 MWh (0.06%) of the 12,019 MWh of changes;
  - Meter Authority D: Thirteen tie-lines ⇒ 7,803 MWh (64.4%) of the 12,019 MWh of changes;
  - Meter Authority E: Three tie-lines ⇒ 57 MWh (0.5%) of the 12,019 MWh of changes.
- Hourly Analysis:
  - All hours of the month experienced at least a 0.027 MWh change in tie-line data.
  - The largest single hourly change was 314.93 MWh on May 26 at 22:00.
  - The average hourly change was 16.155 MWh.
  - The median hourly change was 11.14 MWh, with a standard deviation of 28.484 MWh.
- Tie-line Specific Analysis:
  - The median change for the affected tie-lines for the month was 35 MWh, with a standard deviation of 1,137 MWh. To put this into perspective:
    - Three of the twenty-three tie-lines accounted for 10,108 MWh of the 12,019 MWh of changes [Tie X = 3,556 MWh; Tie Y = 3,462 MWh; & Tie Z = 3,090 MWh];
    - Five tie-lines changed between 215 MWh and 462 MWh, accounting for a total of 1,574 MWh of the 12, 019 MWh of changes for the month;
    - Eight tie-lines changed between 23 MWh and 74 MWh, accounting for a total of 315 MWh of the 12, 019 MWh of changes for the month; and
    - The remaining seven tie-lines changed between 0.027 MWh and 8 MWh, accounting for the remaining 22 MWh of the 12, 019 MWh of changes for the month.

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

## Generator Hourly Meter Data Revision Summary

Summary of Changes Between Issuance of Initial Invoice & 1st Opportunity to Correct/Update

The following is a summary of the generator hourly meter data changes that were observed during the period between May 2007's initial invoicing (June 7, 2007) and when the database was locked down to afford generators the opportunity to analyze & challenge the data submitted by their respective Meter Authorities (July 12, 2007).

- A total of 49,139 MWh of generator data changes, affecting 81 generators, were received from Meter Authorities during this period.
- The affected generators span eight Meter Authorities, with the distribution of changes as follows:
  - Meter Authority A: Six generators ⇒ 151 MWh (0.3%) of the 49,139 MWh of changes;
  - Meter Authority B: Thirteen generators ⇒ 2,898 MWh (5.9%) of the 49,139 MWh of changes;
  - Meter Authority C: Three generators ⇒ 11,292 MWh (2.6%) of the 49,139 MWh of changes;
  - Meter Authority D: Forty-Eight generators ⇒ 33,819 MWh (68.8%) of the 49,139 MWh of changes;
  - Meter Authority E: Seven generators ⇒ 288 MWh (0.6%) of the 49,139 MWh of changes;
  - Meter Authority F: One generator ⇒ 79 MWh (0.2%) of the 49,139 MWh of changes;
  - Meter Authority G: Two generators ⇒ 512 MWh (0.1%) of the 49,139 MWh of changes;
  - Meter Authority H: One generator ⇒ 100 MWh (0.02%) of the 49,139 MWh of changes.
- Hourly Analysis:
  - All hours of the month experienced at least a 1.364 MWh change in generator data.
  - The largest single hourly change was 628.22 MWh on May 25 at 17:00.
  - The average hourly change was 66.05 MWh.
  - The median hourly change was 68.73 MWh, with a standard deviation of 94.02 MWh.
- Generator-Specific Analysis:
  - The median change for the affected generators for the month was 35 MWh, with a standard deviation of 1,137 MWh. To put this into perspective:
    - Three of the eighty-two generators accounted for 43,642 MWh of the 49,1399 MWh of changes [Gen X = 30,273 MWh; Gen Y = 11,224 MWh; & Gen Z = 2,145 MWh];
    - Fourteen generators changed between 100 MWh and 540 MWh, accounting for a total of 3,874 MWh of the 49,139 MWh of changes for the month;
    - Thirty-Three generators changed between 10 MWh and 99 MWh, accounting for a total of 1,563 MWh of the 49,139 MWh of changes for the month; and
    - The remaining thirty-two generators changed between 0.001 MWh and 9 MWh, accounting for the remaining 60 MWh of the 49,139 MWh of changes for the month.