



## Market Monitoring Indices

1. Summary statistics for PJM system by hour/day/week/month/year.
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    - 1.1.1. Average PJM load weighted price;
    - 1.1.2. Maximum PJM load weighted price;
    - 1.1.3. Components of load weighted prices;
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      - 1.1.3.2. Marginal losses
      - 1.1.3.3. Congestion
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  - 1.2. PJM congestion.
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    - 2.2.3. Decrement bids
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  - 6.2. Peak congestion costs;
  - 6.3. Percent of time with congestion;
  - 6.4. Constraint duration
  - 6.5. Frequency of individual constraints;
  - 6.6. Frequency of must run price cap implementation;
  - 6.7. Frequency of constraints without must run price cap implementation.
- 7. Transmission congestion and FTR revenue adequacy
- 8. Congestion comparisons between day ahead and real time markets

- 8.1. Total congestion costs for period;
- 8.2. Peak congestion costs;
- 8.3. Percent of time with congestion;
- 8.4. Frequency of individual constraints;
- 8.5. Frequency of must run price cap implementation;
- 8.6. Frequency of constraints without must run price cap implementation.
- 9. Offers and dispatch.
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  - 9.11. Comparisons of ramp rates by unit type, by company.
  - 9.12. Operational constraints on offers: start times; minimum run requirements; minimum down times; maximum starts.
  - 9.13. Start up costs.
- 10. Comparisons between day ahead and real time offers
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- 12. Demand Response
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- 13. Net Revenue
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  - 16.1. Condenser bids;
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  - 16.3. Condenser credits;
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  - 16.5. Total spinning requirements.
- 17. DASR
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- 18. FTR indices
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    - 18.5.4. Path specific revenue and volume;
    - 18.5.5. Source specific revenue and volume;
    - 18.5.6. Sink specific revenue and volume.
    - 18.5.7. Constraint specific revenue and volume
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    - 18.5.9. By physical entity vs. financial entity
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    - 18.5.11. Revenue adequacy
    - 18.5.12. Value as hedge
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  - 19.1. Total capacity resources;
  - 19.2. Total available capacity;
  - 19.3. Outage status by unit;
  - 19.4. Frequency of outages, by type, by unit, by time period;
  - 19.5. Comparisons of outages across units;
  - 19.6. Company summary outage frequency;
  - 19.7. Comparisons of outages across companies;
  - 19.8. Frequency of unit outages by time period, by demand conditions; by system/bus price.

- 19.9. Planned capacity
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  - 20.3. Market structure (Three pivotal supplier test)
  - 20.4. Market prices for each market;
  - 20.5. Avoidable costs;
  - 20.6. Avoidable project investment;
  - 20.7. Unit specific net revenues;
  - 20.8. Forced outage rates;
  - 20.9. Mitigation/offer caps;
  - 20.10. Exporting of units by company;
  - 20.11. Opportunity costs of exports;
  - 20.12. Capacity position by company.
- 21. Reliability
  - 21.1. Outage & availability factors
    - 21.1.1. By unit type
    - 21.1.2. By duty cycle
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- 22. Market structure by market
  - 22.1. Herfindahl Hirschman Index (HHI)
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