



# Update on the Multi-day Operating Margin (MOM) Forecast, v1

Issue MSC008

**Market Subcommittee (MSC)**  
**October 10, 2019**

# Purpose and Key Takeaways



## **Purpose**

- Provide an update on the delivery of the MOM Forecast v1.0

## **Key Takeaways**

- Development largely completed
  - Waiting for new data source to go into production
  - October delivery is still expected, although not assured
- Readers Guide has been drafted
- Next features are being contemplated

# MOM Forecast Characteristics

- Data will be identical to values used by MISO Operations (data governance)
- Incremental approach with successive versions
- Utilize data warehouse & analytical platform
  - Automated
  - Reliable
  - Extensible
  - Flexible



# MOM Forecast v1.0 initial development is largely complete

- V1.0 will be updated daily and include system-level aggregation of peak-hour information
- System of record is a new MISO tool, currently in testing, containing capacity sufficiency information
  - MOM Forecast is dependent on this system
- Delivery target for MOM Forecast v1.0 is October 2019, with updates to follow
  - Report will be posted on the MISO public website under the Summary section of [Market Reports](#)
  - A Quick Link to its location will be placed under the [Markets and Operations](#) page

# MOM Forecast v1.0 layout (system view)



## Multiday Operating Margin Forecast Report

|                             | 2019-09-21 HE17 | 2019-09-22 HE18 | 2019-09-23 HE15 | 2019-09-24 HE16 | 2019-09-25 HE16 | 2019-09-26 HE15 |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Resource Committed          | 74,587          | 75,110          | 81,983          | 78,350          | 77,049          | 81,378          |
| Resource Uncommitted        | 69,222          | 37,896          | 31,111          | 34,728          | 36,056          | 33,499          |
| Uncommitted > 16 hr         | 17,054          | 9,676           | 8,230           | 9,018           | 10,269          | 9,338           |
| Uncommitted 12-16 hr        | 6,983           | 3,251           | 2,149           | 2,421           | 2,421           | 2,136           |
| Uncommitted 8-12 hr         | 3,061           | 2,562           | 1,944           | 2,474           | 2,439           | 2,081           |
| Uncommitted 4-8 hr          | 13,540          | 5,136           | 3,930           | 4,752           | 4,758           | 4,011           |
| Uncommitted < 4 hr          | 28,583          | 17,270          | 14,858          | 16,063          | 16,169          | 15,933          |
| Renewable Forecast          | 10,466          | 4,132           | 2,809           | 6,323           | 8,847           | 4,279           |
| Resources Available         | 154,275         | 117,138         | 115,903         | 119,401         | 121,952         | 119,156         |
| NSI (+ export, - import)    | 1               | -1,183          | -752            | -682            | -679            | -755            |
| Projected Load              | 82,502          | 77,326          | 82,872          | 82,820          | 83,788          | 83,879          |
| Operating Reserve Margin    | 2,409           | 2,810           | 2,410           | 2,410           | 2,410           | 2,410           |
| Obligation                  | 84,911          | 80,136          | 85,282          | 85,230          | 86,198          | 86,289          |
| Resource Operating Margin * | 69,363          | 38,185          | 31,373          | 34,853          | 36,433          | 33,622          |

\* Resources includes Generators, DRRs & EARs (emergency resources not initially included)

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# MOM Forecast Readers Guide

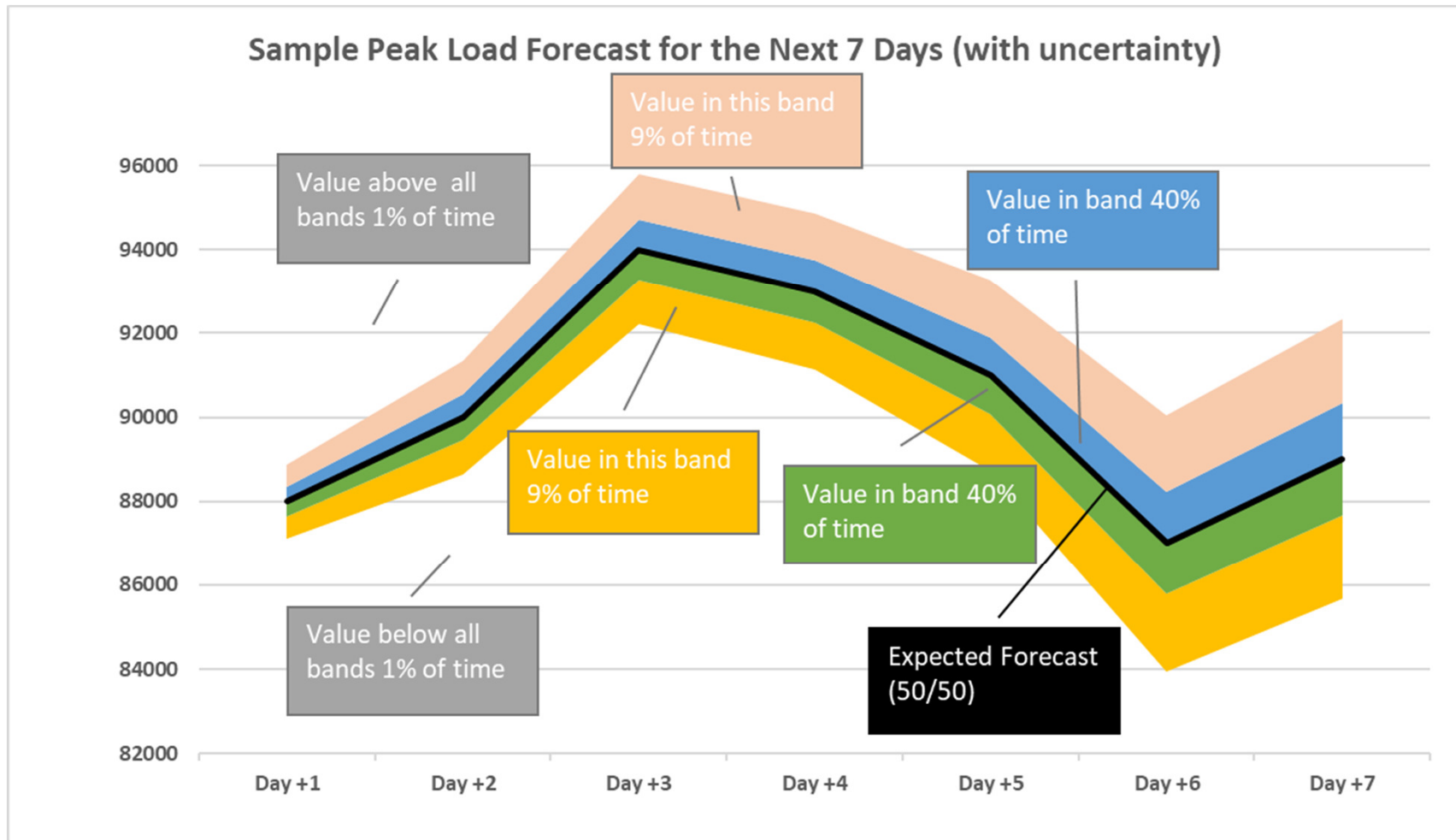
- Draft version has been included along with the MSC meeting materials
- Comments are welcomed

# Incremental enhancements are contemplated

- MISO will use internal and Stakeholder feedback to prioritize near-term evolution of MOM Forecast
- Likely near-term enhancements include:
  - Regional breakdown (North, Central, South)
  - Compute Actuals (after-the-fact) for each component
    - Needed to assess accuracy in future forecasts
  - Possible adjust time “buckets” for off-line capacity
- Other enhancements could include:
  - Include emergency capacity availability
  - Include outage/derate data from CROW



# Key objective will be to identify and quantify uncertainties



# Potential longer-term MOM Forecast refinements, if warranted

- Improve estimates of resource outages, by:
  - Estimating future forced outages
  - Identifying risks of capacity returning from outage
- Anticipate RDT Flow
- Estimate BTMG contributions
- Improve Interchange Forecasting
  - More than just scheduled interchange
  - Price-sensitive
  - Depends on neighboring system conditions
- Anticipate Stranded Capacity
- Other...

# Additional Information

- Issue Tracking Tool for MOM Forecast
  - <https://www.misoenergy.org/stakeholder-engagement/issue-tracking/multi-day-operating-margin-forecast/>
- For questions/comments:
  - Chuck Hansen (chansen@misoenergy.org)