

What do we need from Wind Generation Forecasting?

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Keeping the lights on
24 hours a day, 7 days a week

SYSTEM OPERATOR

Keeping the energy flowing

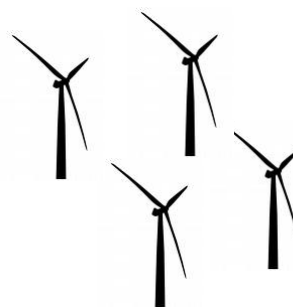
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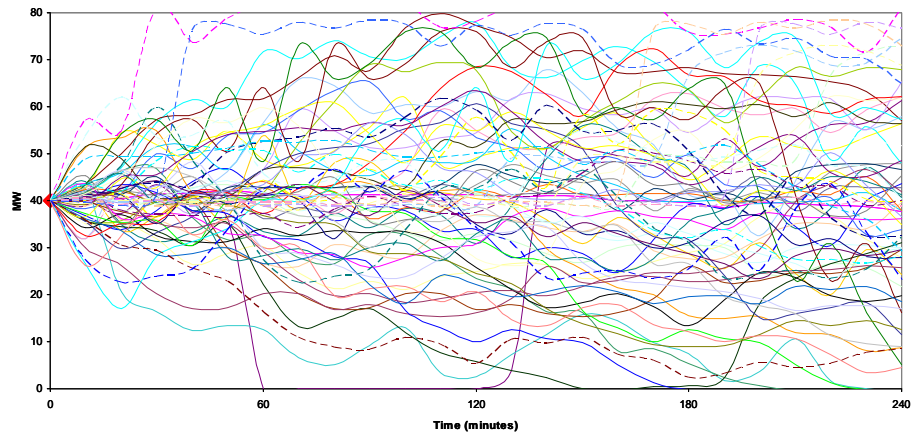
SYSTEM OPERATOR

Forecasting

- Wind generation will make up a large part of the future generation mix
- The variability of wind and other types of generation output needs to be incorporated in market and operational processes
- Good forecasting of variable output generation is essential for efficient market outcomes and maintaining secure power system operation



Wind generation



Forecast Types

Market forecast

- Used in market scheduling timeframe
- Half hour average
- POE MW value
- Upper and lower limits
- Submitted by participants

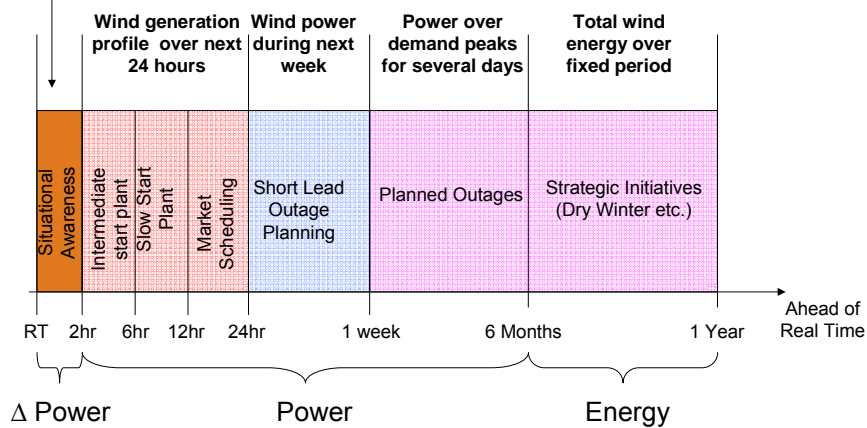
Forecast Types

Security forecast

- Multiple Horizons
- Different forecast type for each Horizon
- Generated by SO
- Used in Grid Security assessments

Forecasting Requirements

Timing of large changes in generation output



Summary

- The right forecast for the job
- Maintain separation of responsibility
 - Participants – offer assets
 - SO – maintain grid security

Questions?