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January 28, 2010 Event

**Kent Saathoff**

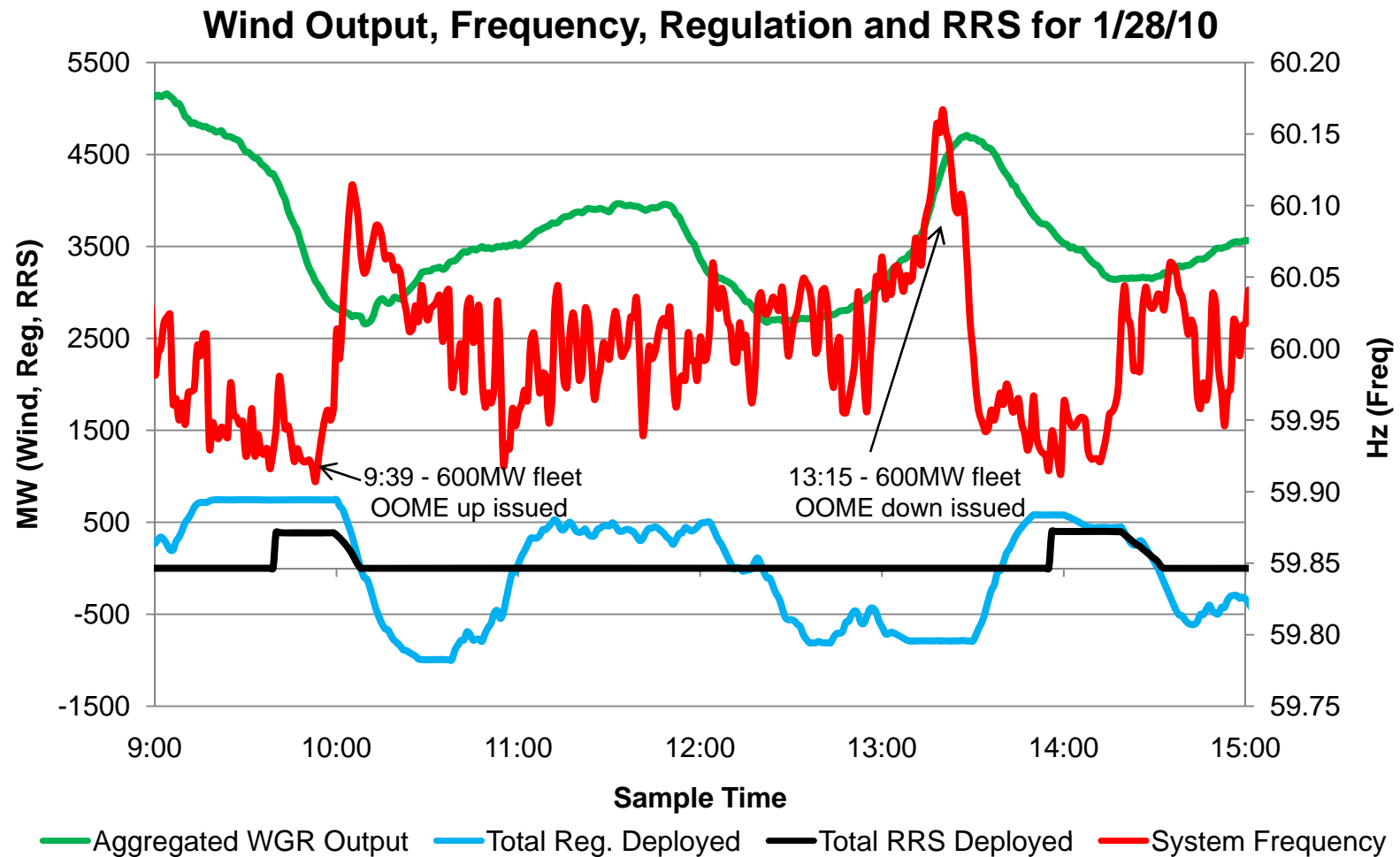
**ERCOT Board of Directors Meeting  
February 16, 2010**

## Strong Cold Front & Heavy Rains

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- **A strong cold front moved southward from the Texas Panhandle into the Sweetwater region.**
- **The cold front became temporarily stationary in the Sweetwater region from just after 3:00 am until 12:00 pm.**
- **A low pressure developed along the front in the McCamey region during this period.**
- **Wind forecast tool did not forecast well**

# All Values on a Single Graph



# Main Points

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- **This was not an emergency event**
  - Never got below 2,500 MW Responsive Reserves
  - Did not violate frequency control standards
- **Showed some limitations of current operational tools**
  - 15 minute balancing market requires predictions 30 minutes in advance
  - Have to compensate with fleet OOME instructions
- **Improvements coming**
  - Implementation and improvement of wind ramp-rate forecasting tool (current and ongoing)
  - Implementation of 5 minute Security Constrained Economic Dispatch (SCED) and SCED on demand for market solution (December 1, 2010)
  - Review of Ancillary Service requirements for increasing wind (ongoing)