

Flexible Ramping Products Requirements Incorporating FMM and EIM

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Flexible Ramping Product to meet Real Ramping Need

Net system demand = load + export - import - internal self-schedules - supply deviations



Real ramping need:

Potential net load change from interval t to interval t+5 (net system demand t+5 – net system demand t)

California ISO

Posted two methods for calculating FMM requirement

- Method 1 Compare actual metered movement using 5-min data
 - Start point is average metered load of three 5-min intervals in first 15-min interval
 - End points are highest/lowest metered load in 5-min intervals in next 15-min interval
 - Historical distribution of actual movement
- Method 2 Compare FMM forecast to actual 5-minute meter data
 - Start point is the FMM forecast net load
 - End points are highest/lowest metered load during 5-min intervals of FMM time period
 - Historical distribution of the differences

California ISO



- ISO will be performing calculations using actual data
- The results will be published with the draft final proposal
- Flexible ramping product will be brought to the BOG for decision in February 2015

