



FEDERAL ENERGY REGULATORY COMMISSION

FACT SHEET

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MEDIA CONTACT

Mary O'Driscoll – 202.502.8680

FERC Study: Using Frequency Response to Assess Reliable Integration of Wind and Other Renewable Resources

The Federal Energy Regulatory Commission (FERC) has commissioned a new study that will use Frequency Response to assess reliable integration of wind and other renewable energy resources.

- This is a groundbreaking study. This is the first time anyone has looked at using this specific metric – frequency response – to objectively determine how much renewable energy can be reliably integrated into the bulk power system.
- This is particularly important given state renewable energy goals, the recent discussion regarding possible national minimum renewable energy goals, and given Chairman Wellinghoff's stated goals for FERC: integration of energy efficiency, demand response and renewable resources into the grid for the benefit of consumers around the country with no harm to the reliability of the bulk power system.
- FERC is charged with the oversight of the reliability of the nation's bulk power system.
 - This study will provide FERC with the information it needs to protect and improve the reliability of the grid.
 - FERC will use the results of the study to validate an approach to assess the reliability impacts of integrating renewables into the grid.

The Study:

- The study will be performed by Lawrence Berkeley National Laboratory.
- The study has three main goals
 - determine if frequency response is an appropriate metric to assess the reliability impacts of integrating renewables;
 - use the resulting metric to assess the reliability impact of various levels of renewables on the grid; and
 - identify what further work and studies are necessary to quantify and mitigate any reliability impacts associated with the integration of renewables.
- The study should be completed in six months.

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