IEA: Electricity Security Advisory Panel

Federal Energy Regulatory Commission

Washington D.C.



Commissioner John Norris

Federal Energy Regulatory Commission

June 11, 2014 Paris, France

The statements herein do not necessarily reflect the views of the Commission or the United States Government

888

The Federal Energy Regulatory Commission, or FERC, is an independent agency that regulates the interstate transmission of electricity, natural gas, and oil.

FERC also reviews proposals to build liquefied natural gas (LNG) terminals and interstate natural gas pipelines as well as licensing hydropower projects.

 Regulates the transmission and wholesale sales of electricity in interstate commerce;

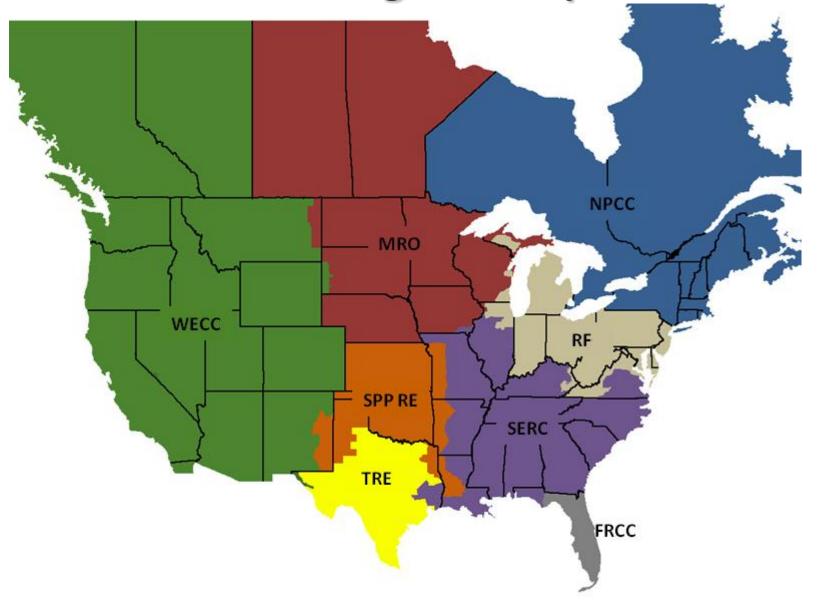
FERC Responsibilities

- Regulates the transmission and sale of natural gas for resale in interstate commerce;
 - Regulates the transportation of oil by pipeline in interstate commerce;
 - Reviews the siting application for electric transmission projects under limited circumstances;
 - Protects the reliability of the high voltage interstate transmission system through mandatory reliability standards;
 - Enforces FERC regulatory requirements through imposition of civil penalties and other means;

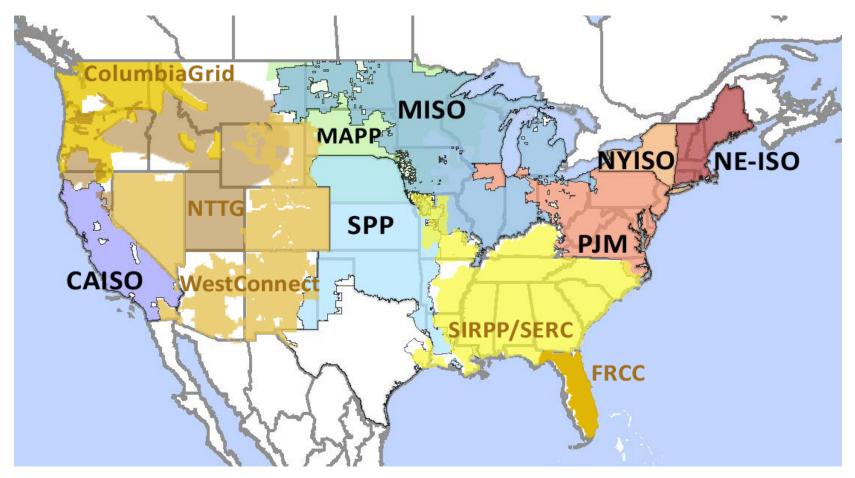
Disclaimer:

The statements herein do not necessarily reflect the views of the Commission or the United States Government.

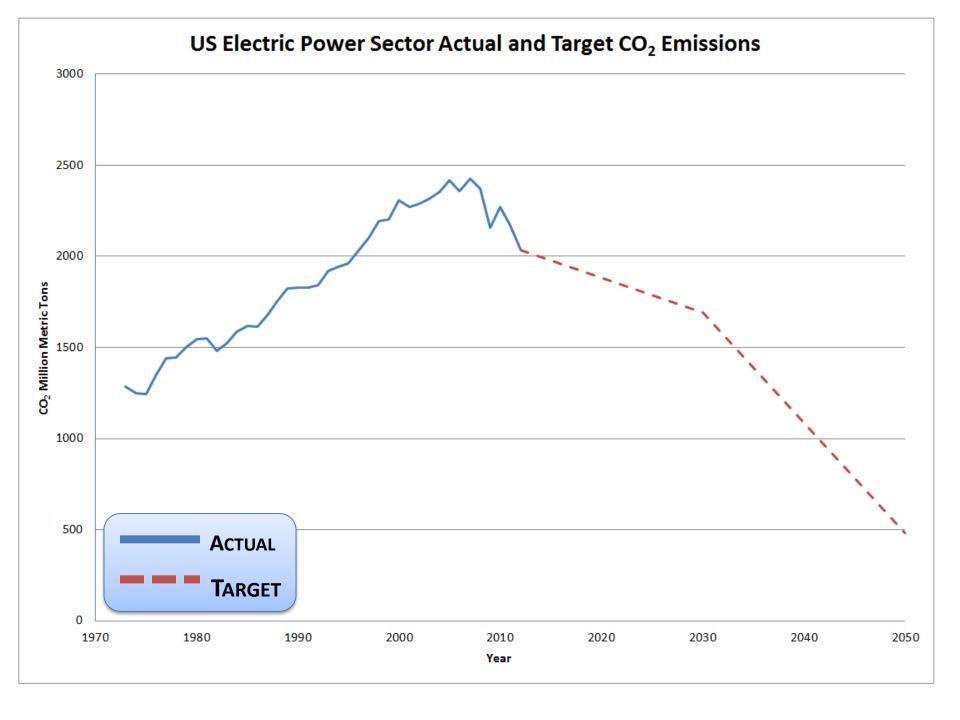
NERC Regions Map



Current Transmission Planning Regions*

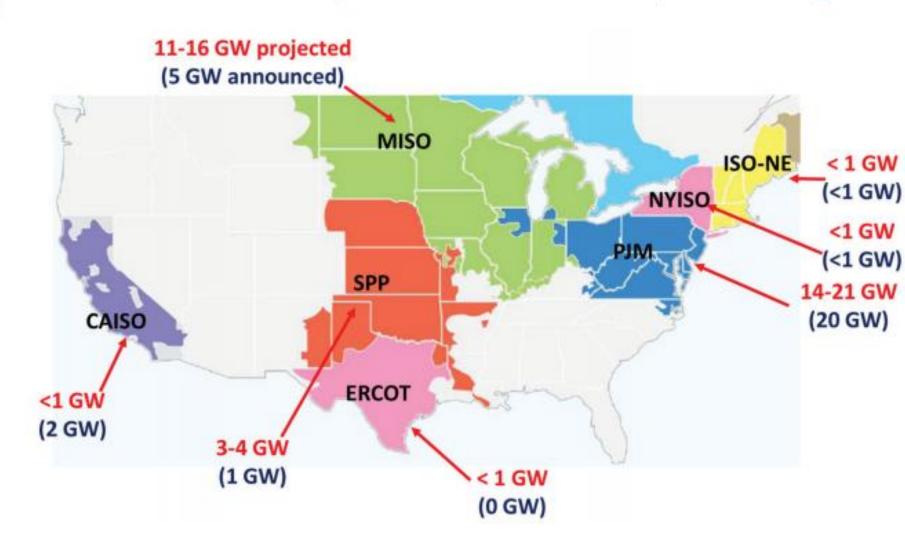


- This map is for illustration purposes only. This map generally depicts the borders of regional transmission planning processes through which transmission providers have complied with Order No. 890. Those borders may not be depicted precisely for several reasons (e.g., not all transmission providers complying with Order No. 890 have a defined service territory). Additionally, transmission planning regions could alter because transmission providers may choose to change regions.
- · Source: Derived from Energy Velocity



Coal Retirements – November 2013

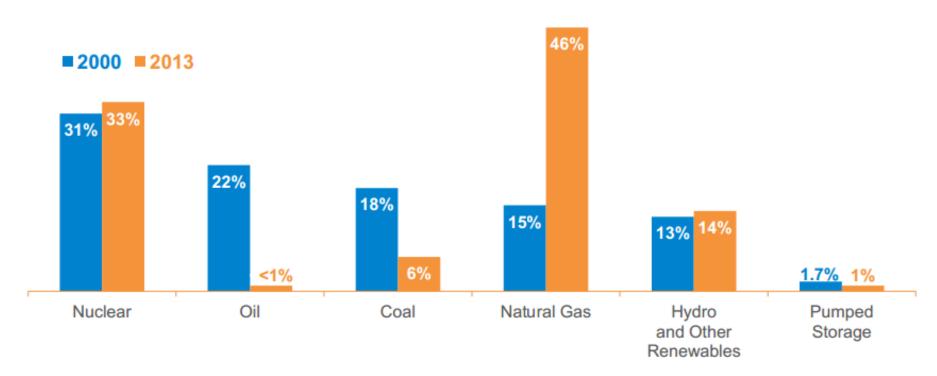
Figure 3 Announced and Projected Coal Retirements by ISO/RTO Region



Dramatic Changes in the Energy Mix

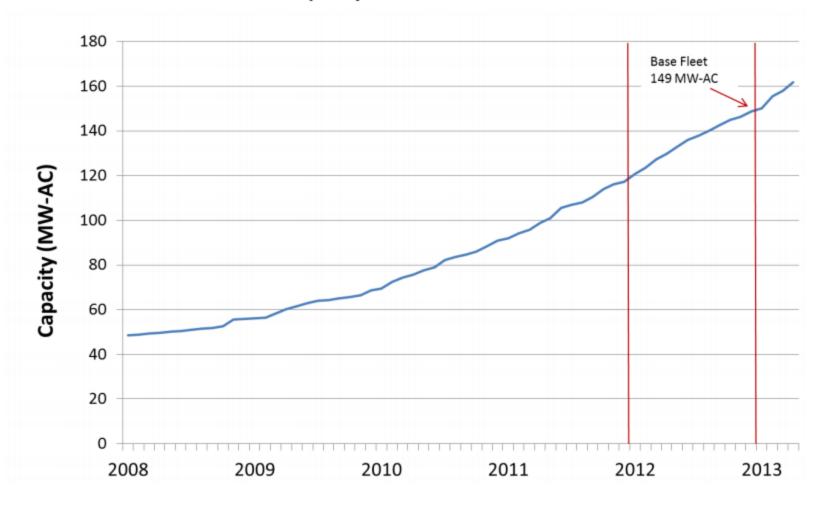
The fuels used to produce New England's electric energy have shifted as a result of economic and environmental factors

Percent of Total **Electric Energy** Production by Fuel Type (2000 vs. 2013)



Source: ISO New England 2014 Regional Electricity Outlook

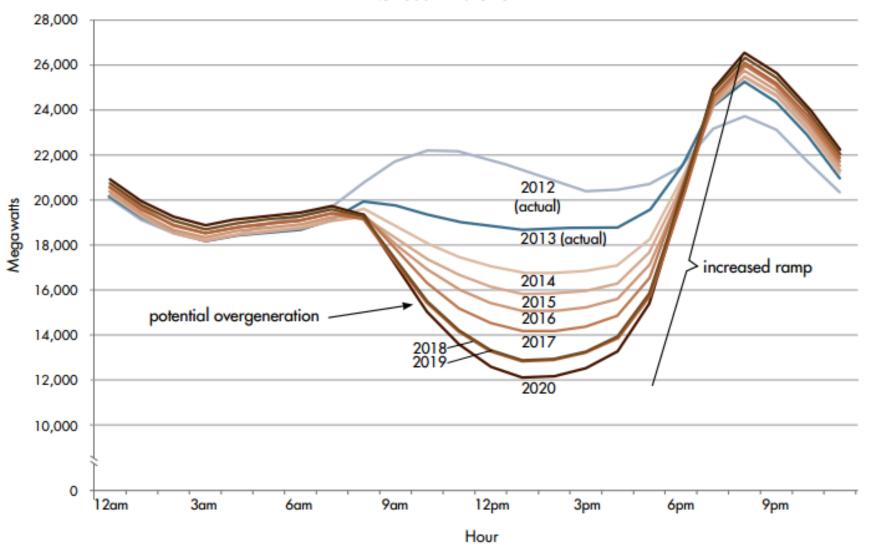
Figure 3. SDG&E Distributed PV Fleet Capacity Over Time



The Duck Curve

(Net load chart)

Net load - March 31



Scarcity Pricing

 A methodology for accurately pricing energy and reserves to reflect when a system is approaching a shortage in reserves

 Important even when capacity adequacy requirements are met because capacity adequacy is based on forecast assumptions that may not hold for a particular day