

## **An innovative, reliable, and affordable grid**

### Relevant studies, reports, and analyses

Grid operators & reliability entities

Government

National laboratories

Independent consultants

Associations, institutions & NGOs

Academic publications

### Grid operators & reliability entities

1. [State of Reliability 2017](#)  
North American Electric Reliability Corporation  
June 2017
2. [2016 Comprehensive reliability plan](#)  
New York Independent System Operator  
April 2017
3. [Evolving resource mix and system reliability](#)  
PJM Interconnection  
March 2017
4. [Using renewables to operate a low-carbon grid](#)  
California Independent System Operator  
December 2016
5. [2016 Long-term reliability assessment](#)  
North American Electric Reliability Corporation  
December 2016
6. [2016 Wind integration study](#)  
Southwest Power Pool  
January 2016
7. [Beyond 33% renewables: Grid integration policy for a low-carbon future](#)  
California Independent System Operator  
November 2015

### Government

1. [Short-term energy outlook](#)  
U.S. Energy Information Administration  
June 2017

2. **Quadrennial energy review**  
U.S. Department of Energy  
January 2017
3. **The power of transformation: Wind, sun, and the economics of flexible power systems**  
International Energy Agency  
February 2014

## National laboratories

1. **Demonstration of essential reliability services by a 300 MW solar PV power plant**  
National Renewable Energy Laboratory  
April 2017
2. **Eastern renewable generation integration study**  
National Renewable Energy Laboratory  
August 2016
3. **The role of advancements in solar PV efficiency, reliability, and cost**  
National Renewable Energy Laboratory  
May 2016
4. **Low carbon grid study: Analysis of a 50% emission reduction in California**  
National Renewable Energy Laboratory  
January 2016
5. **Renewable electricity futures: Operational analysis of the western interconnection at very high renewable penetrations**  
National Renewable Energy Laboratory  
September 2015
6. **Relevant studies for NERC's analysis of EPA's CPP**  
National Renewable Energy Laboratory  
June 2015
7. **Grid integration and the carrying capacity of the US grid to incorporate variable renewable energy**  
National Renewable Energy Laboratory  
April 2015
8. **Western wind and solar integration study phase 3 – frequency response and transient stability**  
National Renewable Energy Laboratory  
December 2014
9. **Meta-analysis of high penetration renewable energy scenarios**  
National Renewable Energy Laboratory  
September 2013
10. **Eastern frequency response study**  
National Renewable Energy Laboratory  
May 2013
11. **Renewable electricity future study, Volume 2: Renewable electricity generation and storage technologies**  
National Renewable Energy Laboratory  
February 2012
12. **Nebraska statewide wind integration study**  
National Renewable Energy Laboratory  
March 2010
13. **20% Wind energy by 2030**  
National Renewable Energy Laboratory  
July 2008

## Independent consultants

1. **Reply comments of Michael Milligan, Ph. D. to FERC**  
Michael Milligan  
October 2017
2. **Electric System Reliability: No Clear Link to Coal and Nuclear**  
Rhodium Group  
October 2017
3. **Coal-Fired Electricity Generation in the United States and Future Outlook**  
M.J. Bradley & Associates, LLC  
September 2017
4. **Electricity markets, reliability and the evolving U.S. power system**  
The Analysis Group  
June 2017
5. **Advancing past “baseload” to a flexible grid**  
The Brattle Group  
June 2017
6. **Reliability risks due to coal retirement at ERCOT**  
The Brattle Group  
December 2016
7. **Integrating renewable energy into the electricity grid**  
The Brattle Group  
June 2015
8. **Minnesota renewable energy integration and transmission study**  
General Electric  
October 2014
9. **PJM renewable integration study**  
General Electric  
March 2014

## Associations, institutions & NGOs

1. **The state of wholesale power markets: What’s wrong with proposed changes in Eastern RTOs?**  
Energy Innovation  
June 2017
2. **Secretary Perry, we have some questions too**  
Energy Innovation  
May 2017
3. **Energy fact check: The impact of renewables on electricity markets and reliability**  
American Council on Renewable Energy  
May 2017
4. **Changing the power grid for the better**  
Advanced Energy Economy Institute  
May 2017
5. **Renewable energy builds a more reliable and resilient electricity mix**  
American Wind Energy Association  
May 2017
6. **Solar and renewables benefit the grid and the US economy**  
Solar Energy Industries Association  
January 2016
7. **Renewables and reliability fact sheet: Grid management solutions to support CA’s clean energy future**  
Union of Concerned Scientists  
March 2015

## Academic publications

1. **Abstracts of 25 Peer-Reviewed Published Journal Articles Supporting the Result That the Electric Grid can Stay Stable with Electricity Provided by 100% or Near-100% Renewable Energy**  
Stanford University  
August 2017
2. **Can coal make a comeback?**  
Columbia Center on Global Energy Policy  
April 2017
3. **Potential for concentrating solar power to provide baseload and dispatchable power**  
Nature Climate Change  
June 2014
4. **Managing variable energy resources to increase renewable electricity's contribution to the grid**  
Scott Institute for Energy Innovation an Carnegie Mellon University  
May 2013
5. **Supplying baseload power and reducing transmission requirements by interconnecting wind farms**  
Journal of Applied Meteorology and Climatology  
February 2007