

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



Finding the ways that work

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. **Electricity markets, reliability and the evolving U.S. power system**
The Analysis Group
June 2017
2. **Advancing past “baseload” to a flexible grid**
The Brattle Group
June 2017
3. **Reliability risks due to coal retirement at ERCOT**
The Brattle Group
December 2016
4. **Integrating renewable energy into the electricity grid**
The Brattle Group
June 2015
5. **Minnesota renewable energy integration and transmission study**
General Electric
October 2014
6. **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



Finding the ways that work

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