RPS 101:

What is a Renewable Portfolio Standard?

June 15th
Tulane University Law School
Joseph Daniel
Sr. Energy Analyst

Concerned Scientists

QUICK ROAD MAP



ABOUT UCS



Concerned Scientists healthy planet and safer world.



OVERVIEW

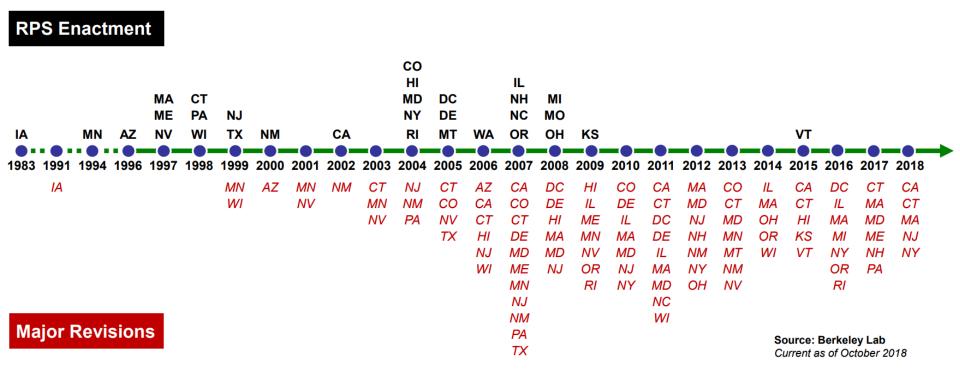
Common Elements of an RPS

Target Amount Target Year

Eligible Resources

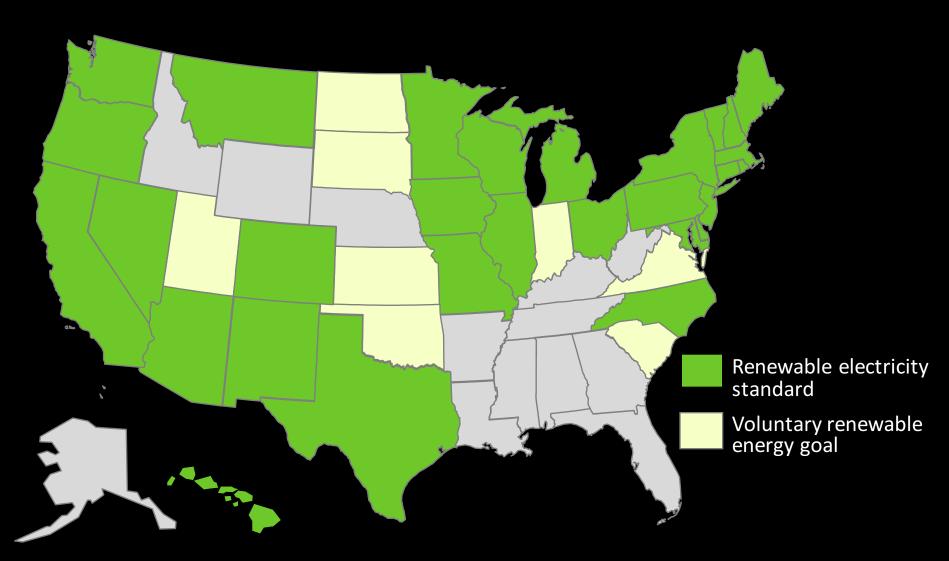
36 Years of RPS Policies

2019 activity (New Orleans?)

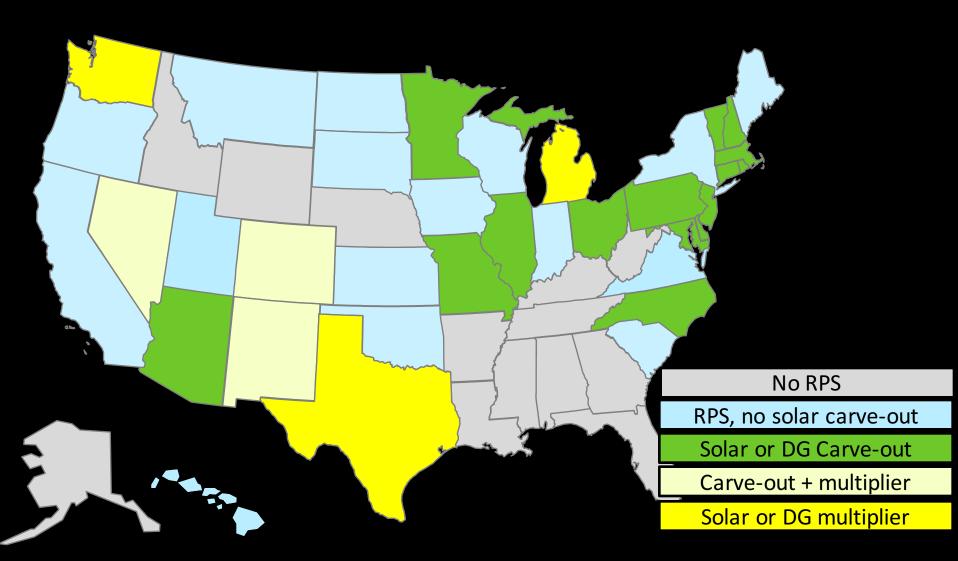


2019 activity (NM, WA, DC, NV, MD, PR, CT)

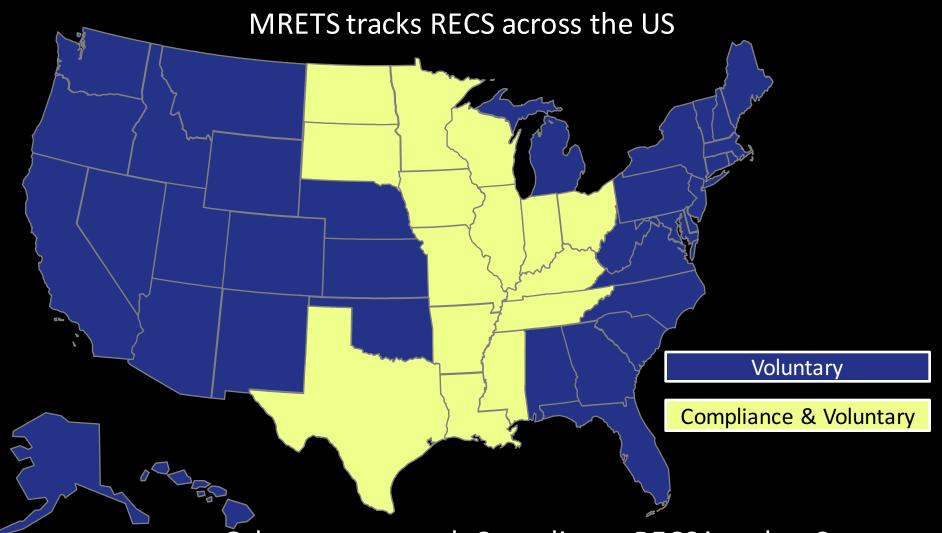
Renewable Portfolio Standards



Carve-outs (or Set-asides)



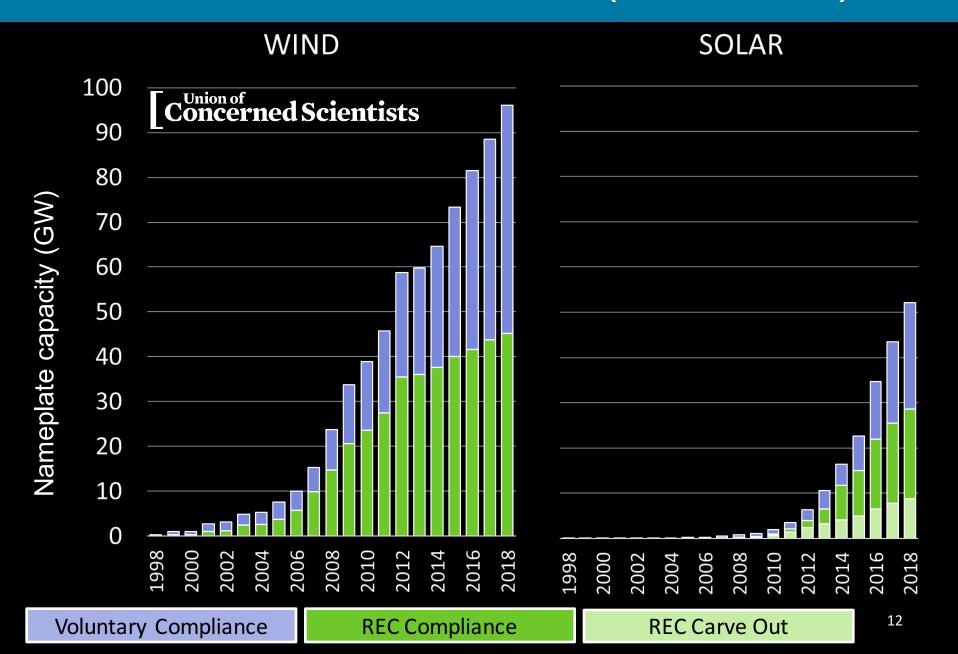
Renewable Energy Credit (REC) trading



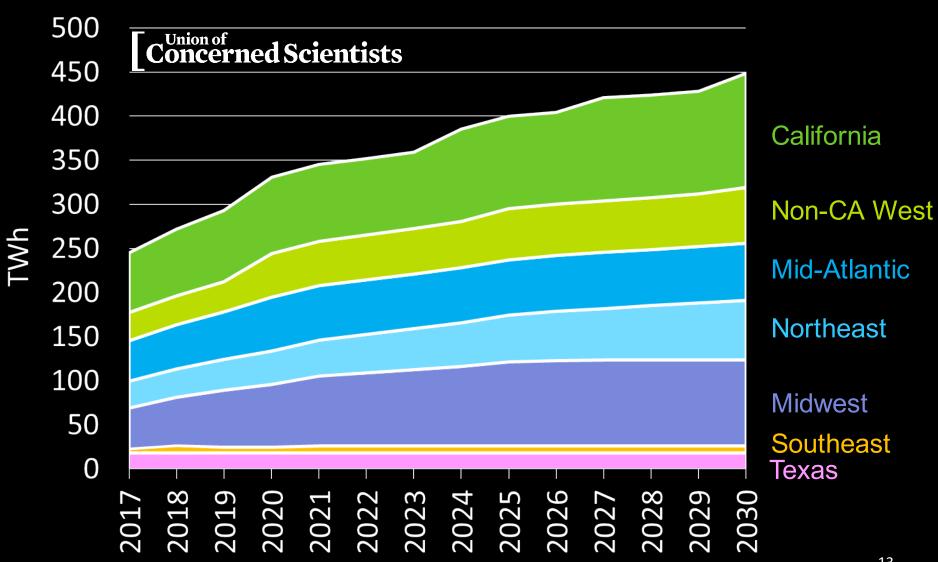
Other groups track Compliance RECS in other States Concerned Scientists

SUCCESS

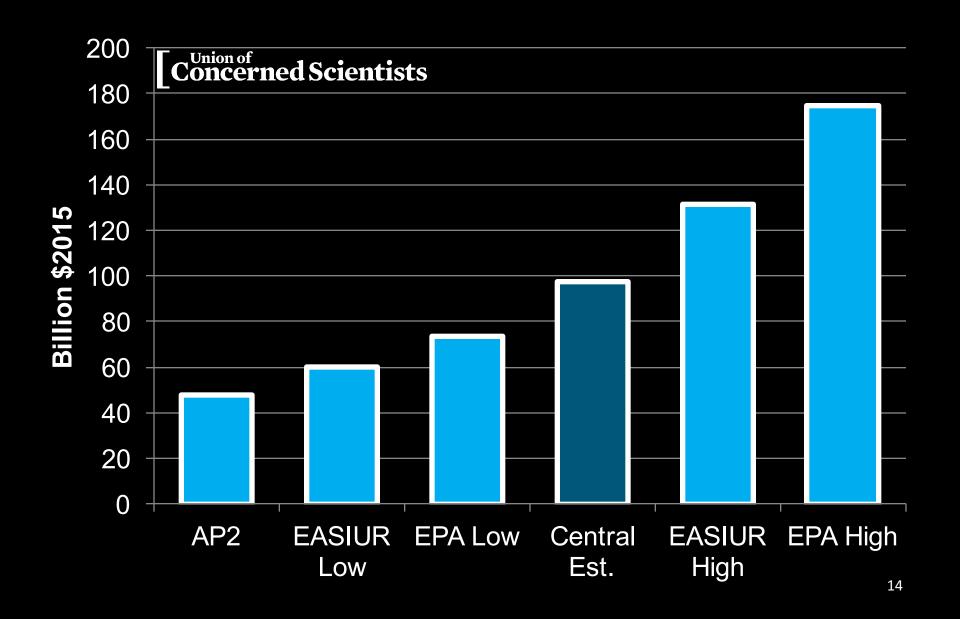
Renewables Growth (Historical)



Renewables Growth (Projected)



Monetized Health Benefits



Other benefits

Employment (direct and indirect)

Reduced reliance on fossil fuels

Reduced water consumption

Reduced toxic air pollution

Reduced greenhouse gas emissions

COSTS

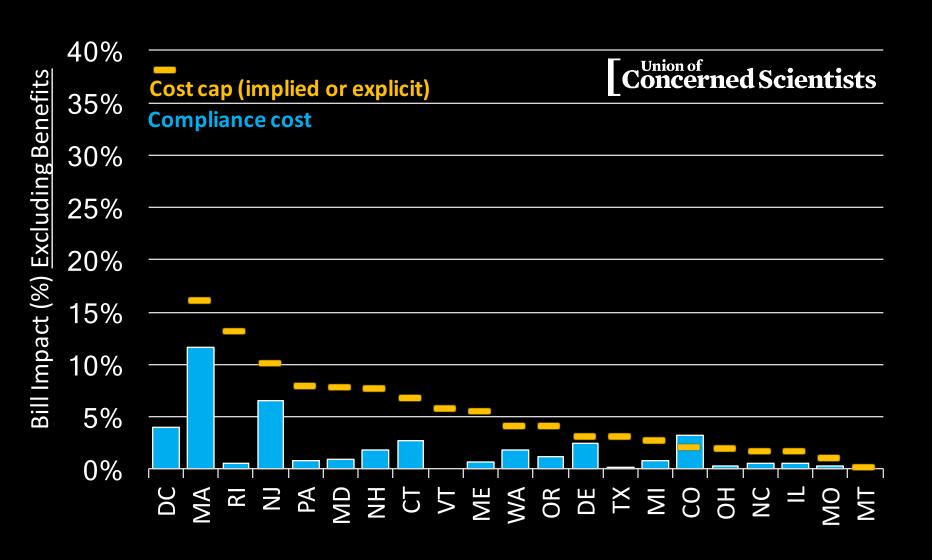
Cost Containment

Renewable Energy Fund Cap Renewable Energy Contract Price Cap

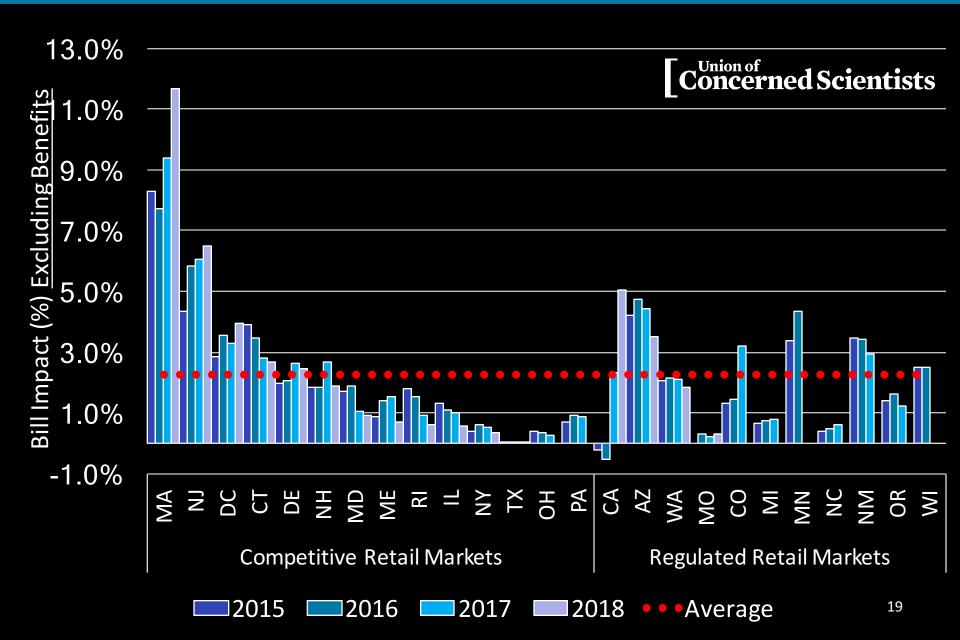
Alternative Compliance Payment

Rate/Bill Impact

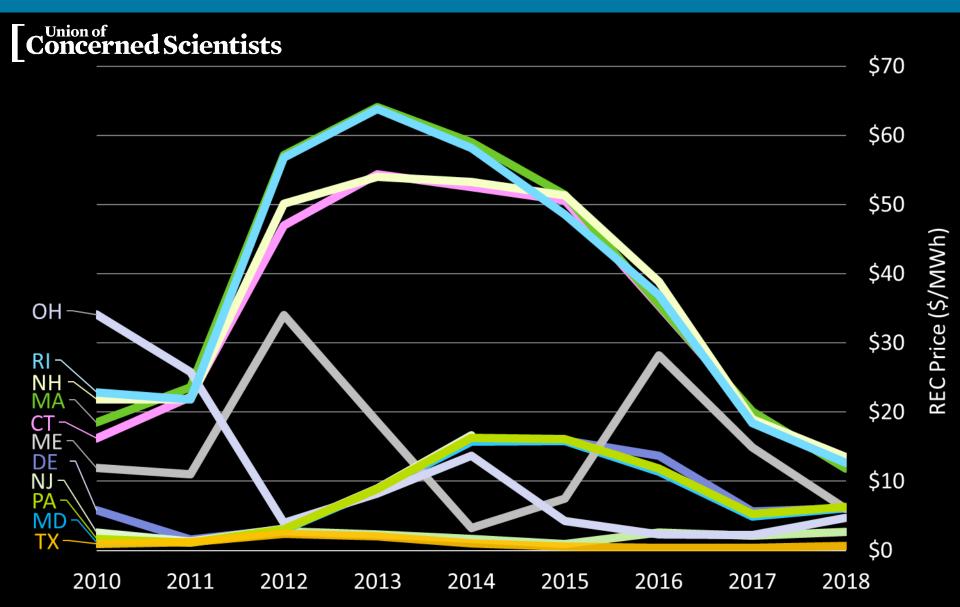
Compliance costs vs. cost cap



RPS Compliance Costs (% Bill Impacts)

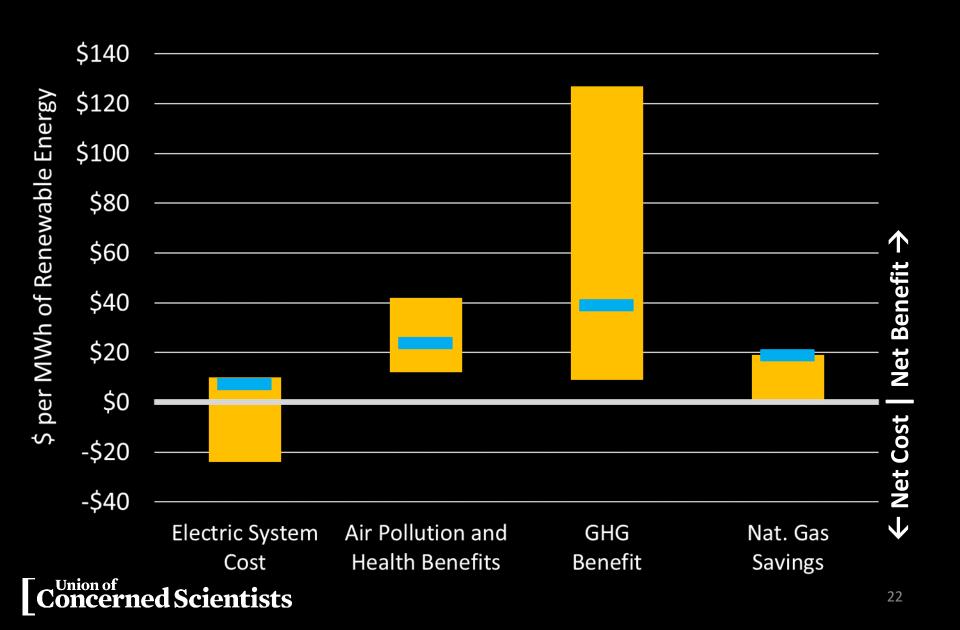


"Tier 1 REC" Prices



Net Benefits

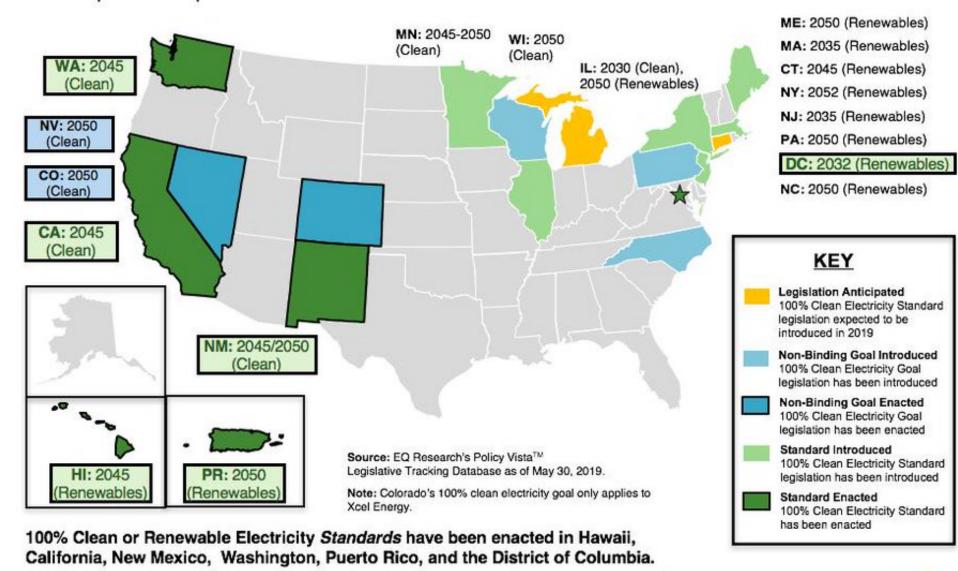
Net Benefits of an RPS



100% Clean or Renewable Electricity Targets

Anticipated, Proposed or Enacted 100% Standards and Goals

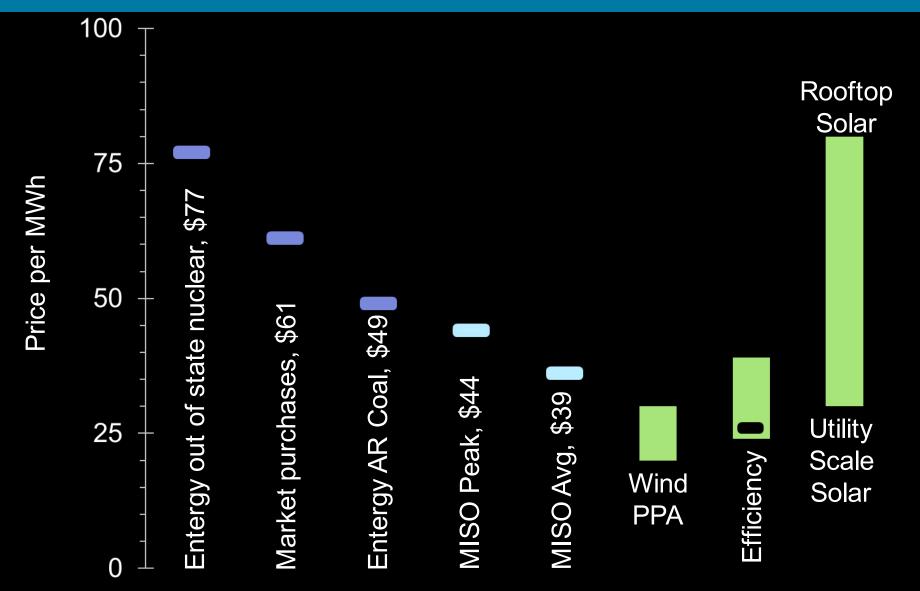
100% Clean or Renewable Electricity Goals have been enacted in Nevada and Colorado.





WHAT WOULD AN RPS MEAN FOR NEW ORLEANS

Energy Choices for New Orleans



Data Sources and References

- Energy Information Agency Form 860
- Federal Energy Regulatory Commission Form 1
- S&P Global Market Intelligence
- NREL Solar Benchmark 2018
- NREL Wind Benchmark 2018 Q1
- LBNL: RPS Cost Benefit 2017
- LBNL: 2018 RPS Update
- o CPI: Limiting the Cost of Renewables
- Synapse Energy Economics: Cost of Saved Energy
- DSIRE
- EQ Research
- MRETS

