

Day 24: Addressing Climate Change at the Sub-National Level

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PUBPL 481

Road map

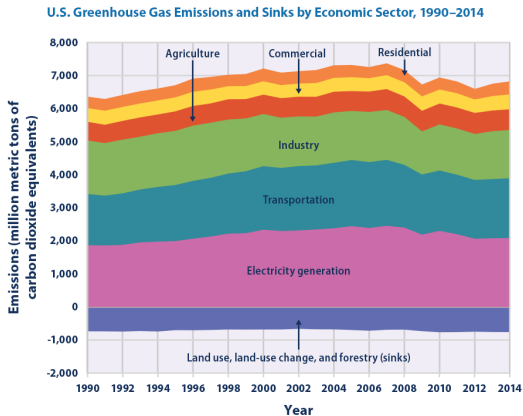
- What are state and local governments doing?

State and Local Government Actions

What are the benefits and drawbacks of having state and local governments take the lead in addressing climate change?

State and Local Government Actions

Sources of Greenhouse Gases



Data source: U.S. EPA (U.S. Environmental Protection Agency). 2016. Inventory of U.S. greenhouse gas emissions and sinks: 1990–2014. EPA 430-R-16-002. www.epa.gov/climatechange/ghgemissions/usinventoryreport.html.

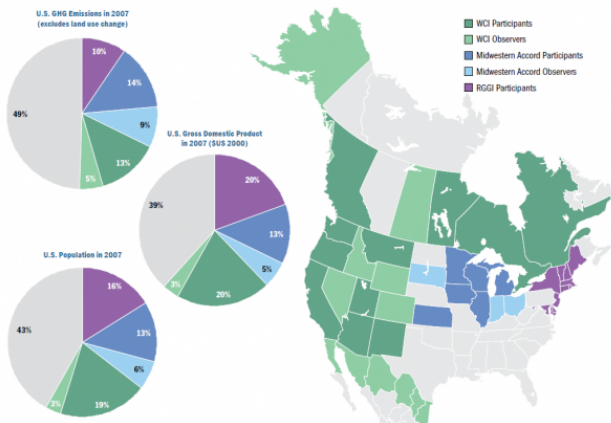
For more information, visit U.S. EPA's "Climate Change Indicators in the United States" at www.epa.gov/climate-indicators.

Figure: U.S. EPA

State and Local Government Actions

Regional Partnerships

Figure 3 | Regional Cap-and-Trade Programs



Climate Analysis Indicators Tool (CAIT US) Version 4.0. (Washington, DC: World Resources Institute, 2011).

Figure: World Resources Institute

Regional Greenhouse Gas Initiative

- Est. 2009
- 10 states + 2
- PA in 2022
- \$300 million in auction proceeds in 2022

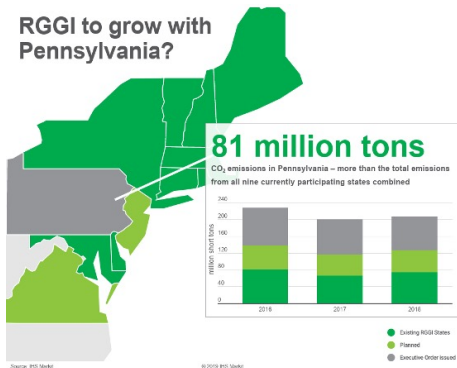


Figure: Luckow 2019

<https://youtu.be/0lNgAIyTDNc>

Bell and Mallinson 2021

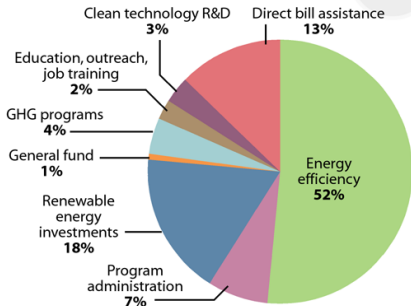
How RGGI States Invested Their Cap-and-Trade Revenue

Over the past three years, the nine states in the Regional Greenhouse Gas Initiative (RGGI) put the majority of the program's revenue into energy efficiency projects, followed by renewable energy investments.

HOW RGGI PROCEEDS WERE SPENT

By project, all RGGI states, 2015-2017

inside
climate
news



SOURCE: The Analysis Group; spending data reported to RGGI

PAUL HORN / InsideClimate News

Figure: PA DEP

State and Local Government Actions

Renewable Energy Portfolio Standards



Energy Efficiency & Renewable Energy

Renewable Portfolio Standard Policies

www.dsireusa.org / August 2016

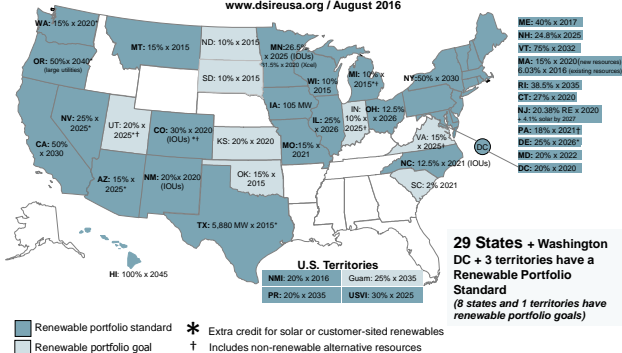


Figure: Solar Energy Industries Association

State and Local Government Actions

Energy Efficiency Resource Standards

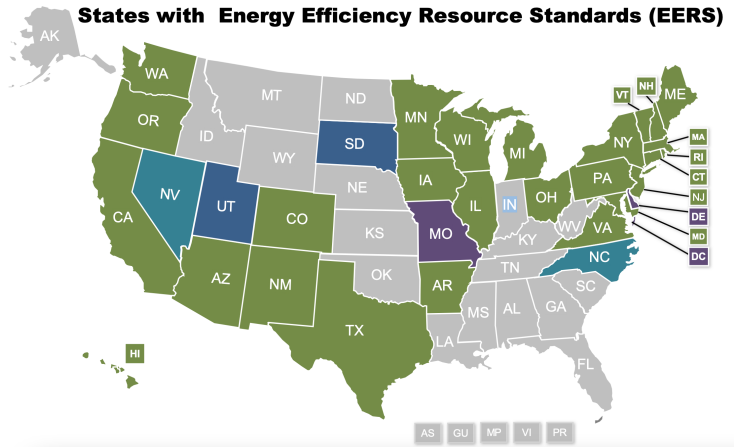
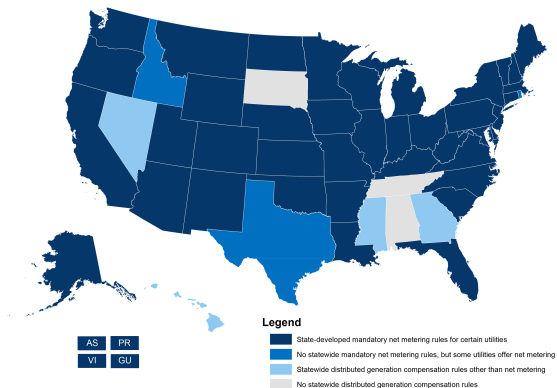


Figure: [National Conference of State Legislatures](#)

State and Local Government Actions

Net Metering

41 States, DC, and four U.S. territories have mandatory net metering rules



Source: "The 50 States of Solar," by NC Clean Energy Technology Center and Meister Consultants Group

B Metropolitan Policy Program
at BROOKINGS

Figure: Brookings Institute

State and Local Government Actions

Transportation

What can states do?

Agriculture

What can states do?

Conflictual Federalism

Preemption

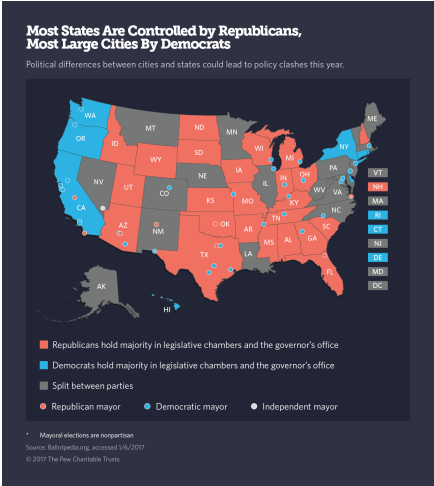


Figure: Quinton 2017

Hope

There is still a lot that states can do to tackle climate change, but unclear as to whether it is enough. Risks of shirking are great. States still act in the interests of their citizens. But, those interests are increasingly aligned with carbon emissions reduction.