

Revolution Required: Meeting Current & Future Energy Challenges

Eileen V. Quigley

The City of Tomorrow Series
Kühne Logistics Universität Hamburg
May 7, 2015



Climate Solutions
PRACTICAL SOLUTIONS TO GLOBAL WARMING



Climate Solutions Mission

Accelerate *practical, profitable* solutions to global warming by:

- ✓ Galvanizing leadership
- ✓ Growing investment
- ✓ Bridging divides

GOAL: Make the Northwest a national and world leader in the clean energy economy





Policy Leadership

- Oregon Legislature
- Washington Legislature
- Northwest Delegation

Movement Building

- Business Partnerships
- Power Past Coal
- Stand Up to Oil
- Alliance for Clean Energy and Jobs
- Renew Oregon

Strategic Innovation

- Pathways Project
- New Energy Cities
- Sustainable Advanced Fuels

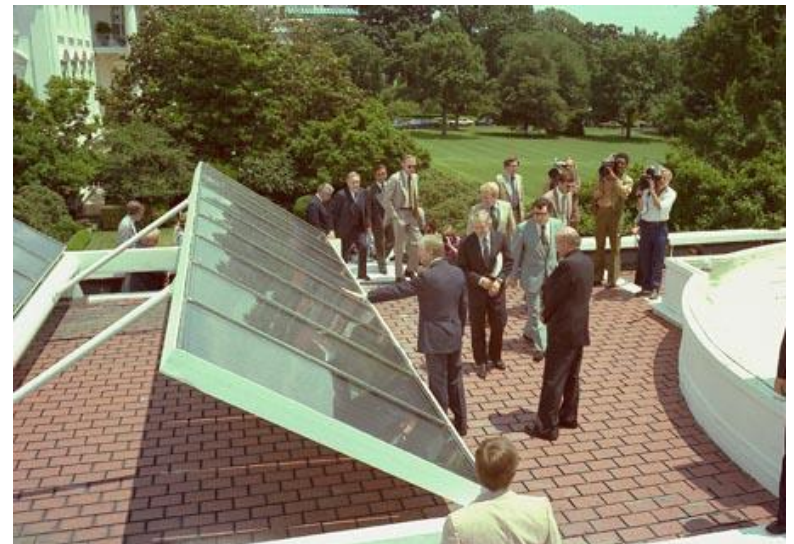


U.S. Energy Overview 1973-1997



U.S. Energy Crises of the 1970s

Solar Panels on the White House



U.S. Energy Overview 2000-2015

Environmental Priorities

Global warming ranks lowest among common environmental concerns

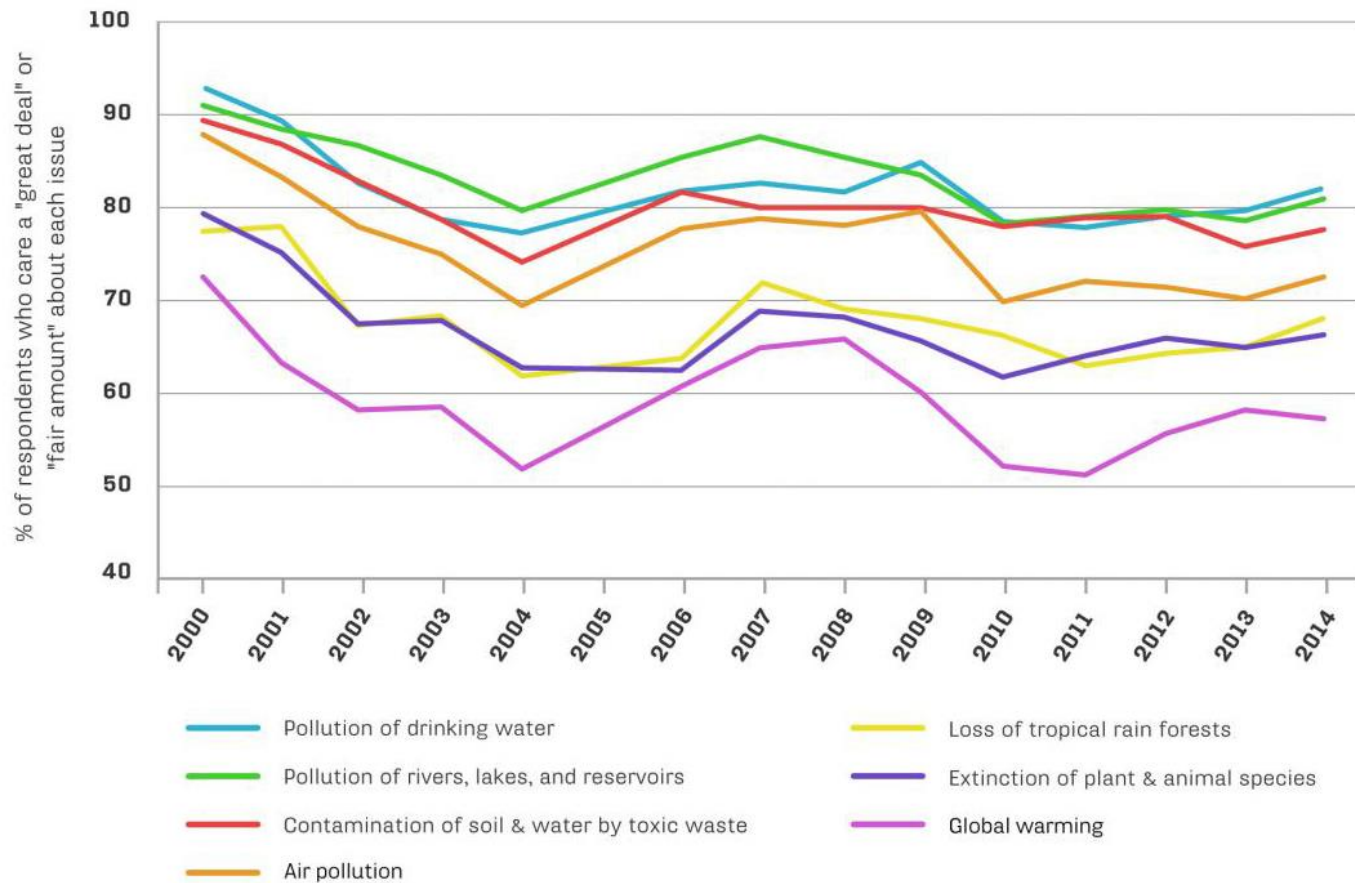


ILLUSTRATION: FRANK LECLAIR

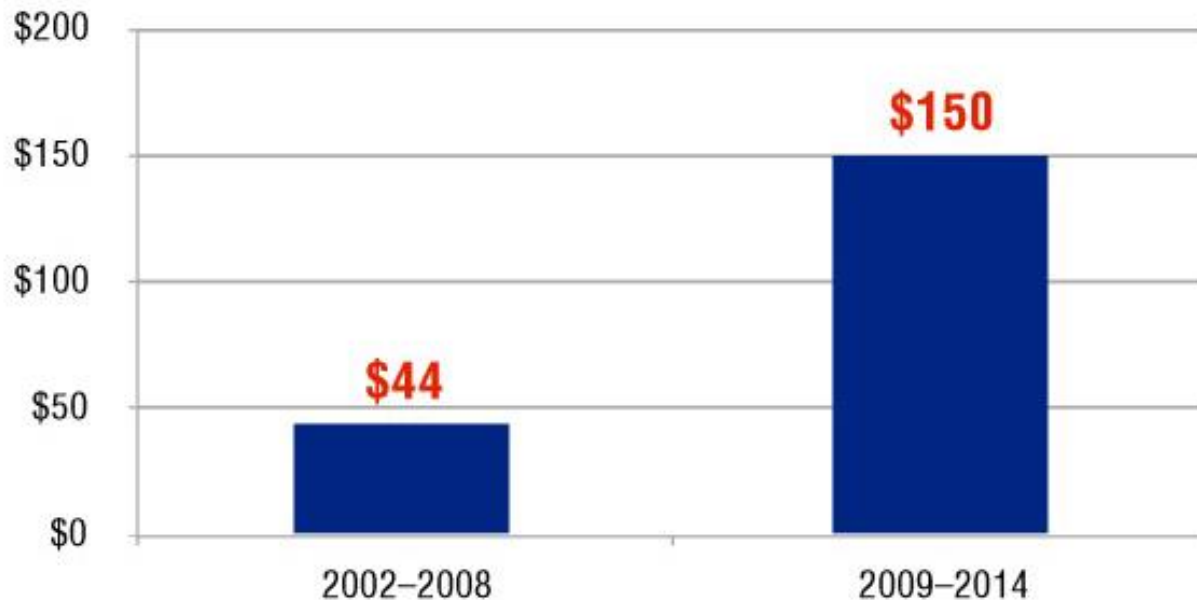
BOSTON REVIEW



Federal Clean Energy Investment

Figure 2

Cumulative Federal Spending on Clean Tech by Period (billions)

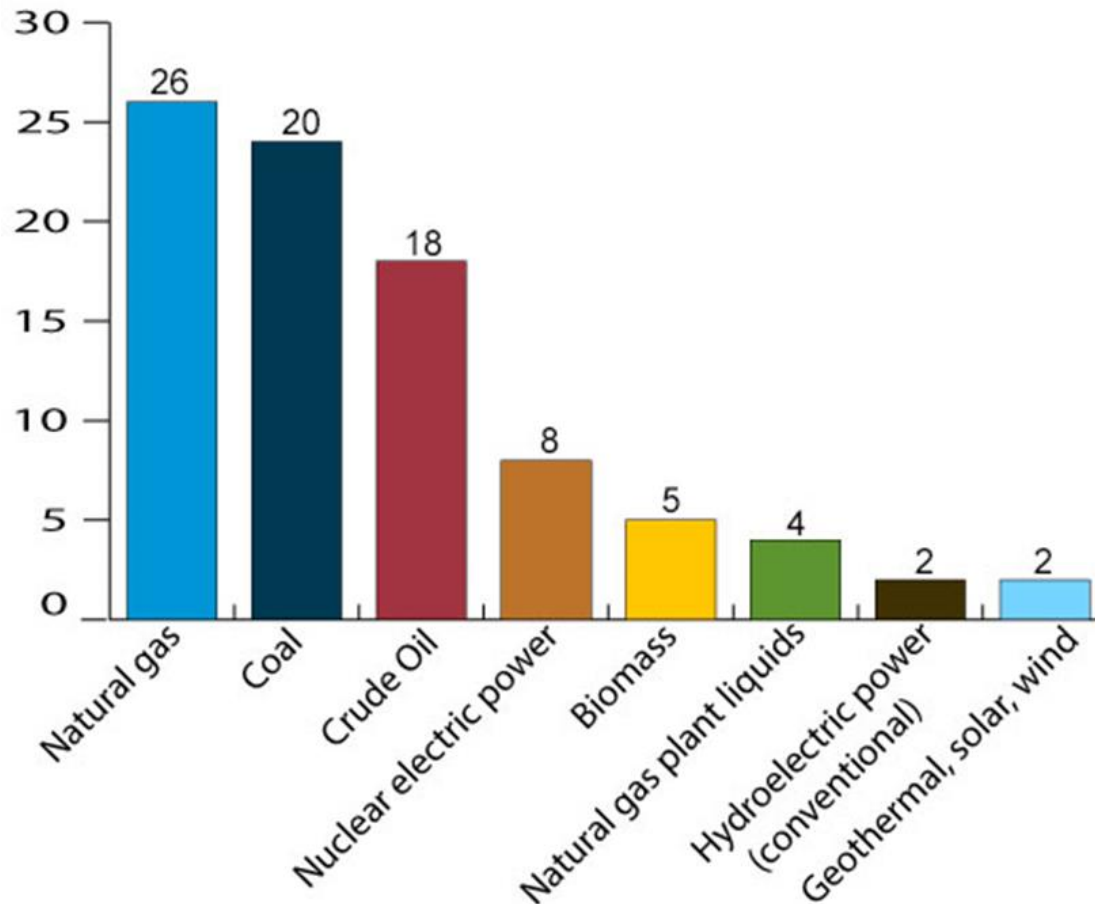


Shale Oil and Gas Boom



U.S. Energy March 2015

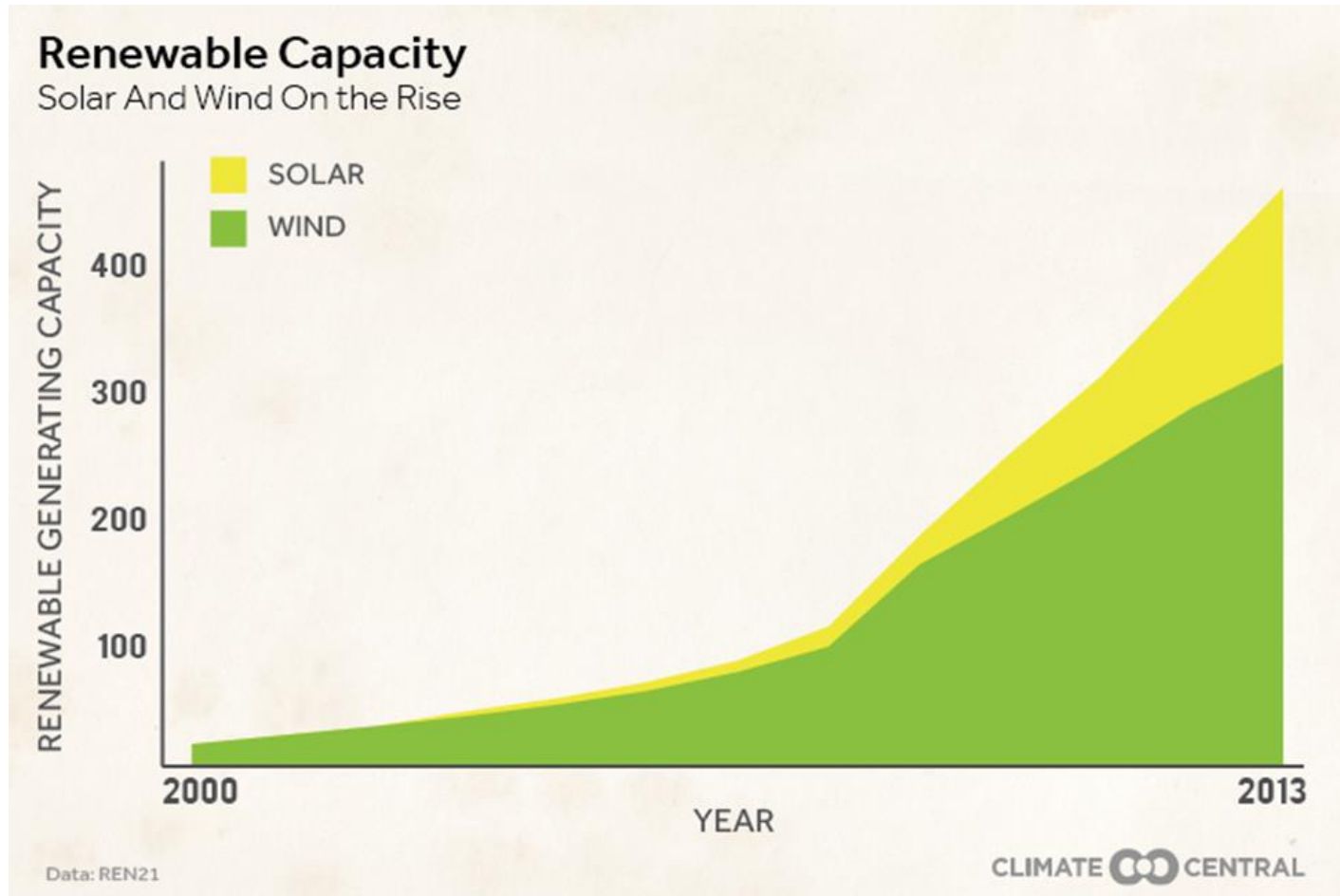
U.S. primary energy production by major source, 2014
quadrillion Btu



Source: U.S. Energy Information Administration, *Monthly Energy Review* (March 2015), preliminary data



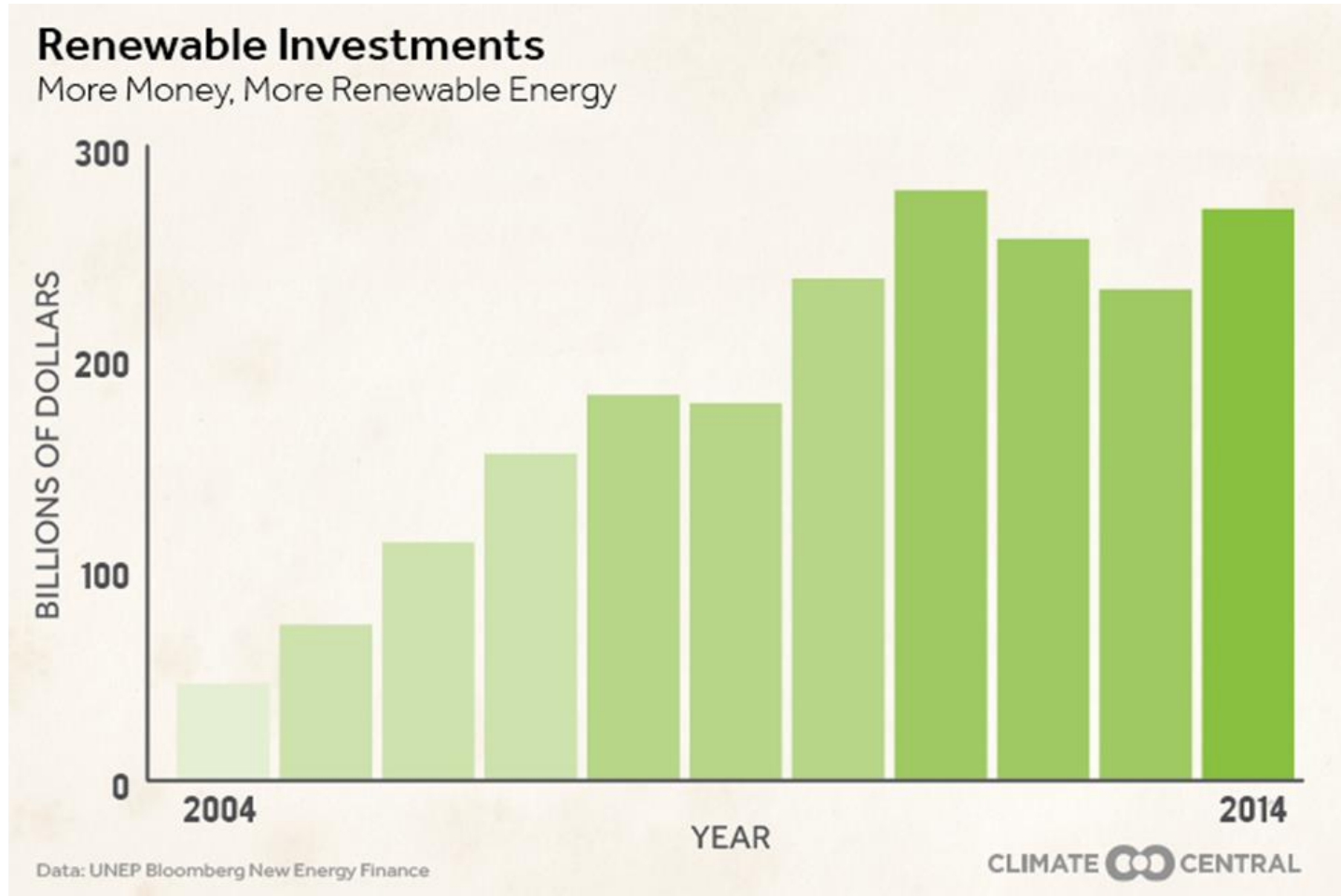
Explosive Growth of Wind & Solar



Source: <http://www.climatecentral.org/news/clean-energy-trends-earth-day-18916>



Less Money Purchasing More RE

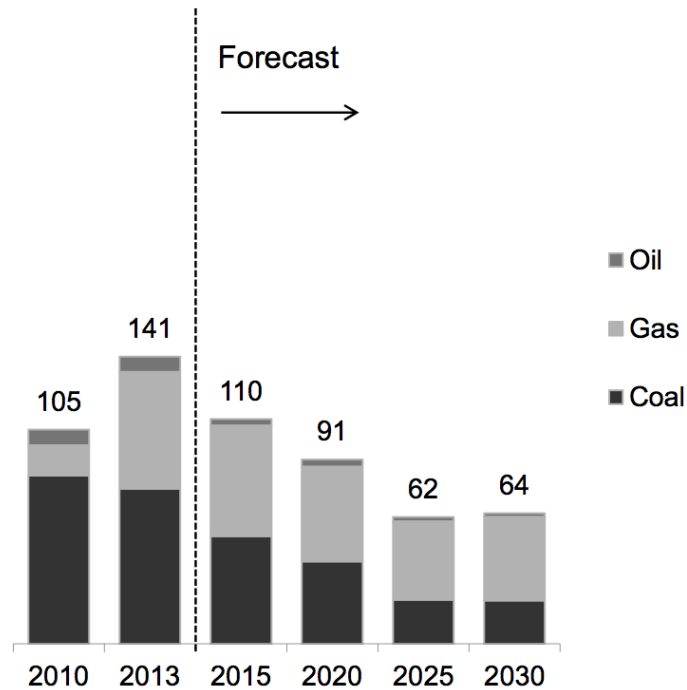


Source: <http://www.climatecentral.org/news/clean-energy-trends-earth-day-18916>

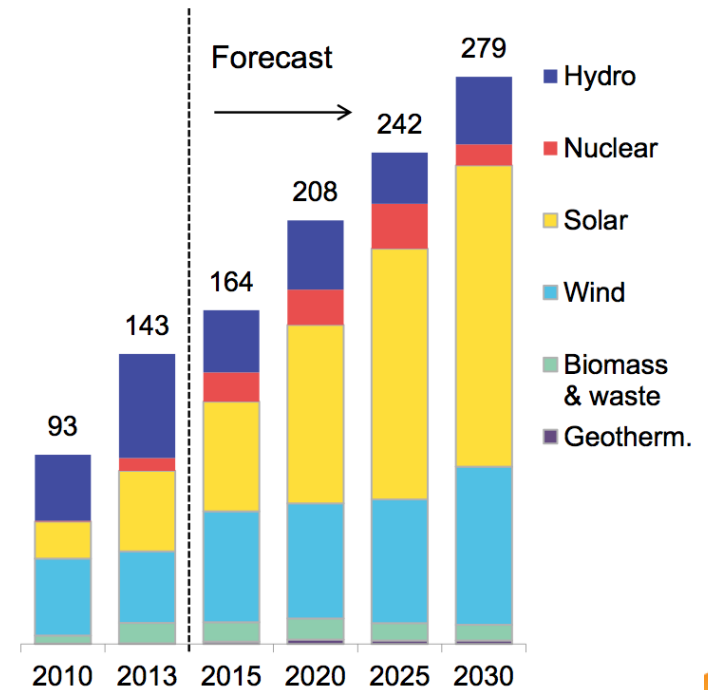


Fossil Fuels Losing the Race

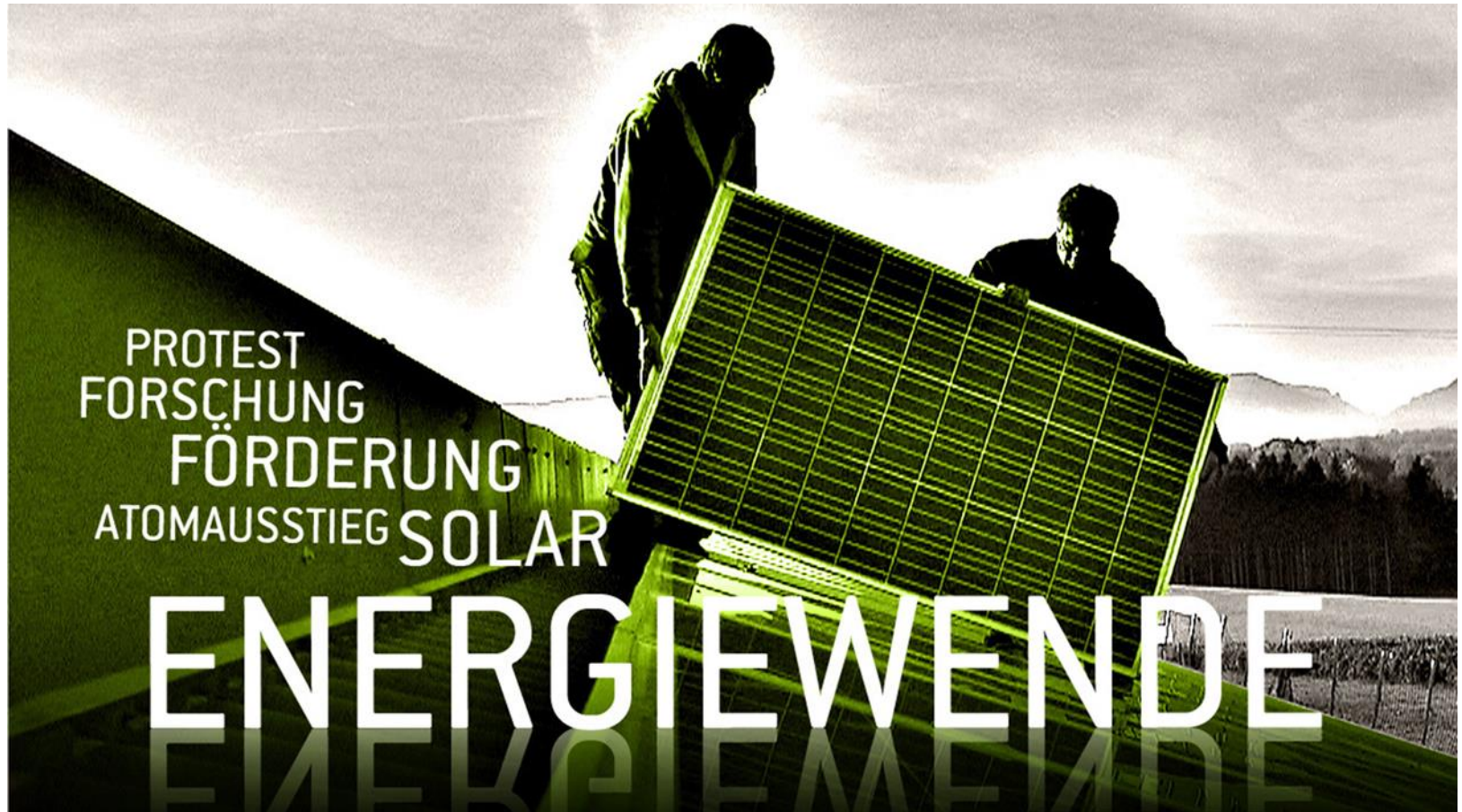
FOSSIL FUEL



CLEAN ENERGY



U.S. View on Energiewende



Climate Action in the U.S.-RPS

DSIRE®

NC CLEAN ENERGY
TECHNOLOGY CENTER

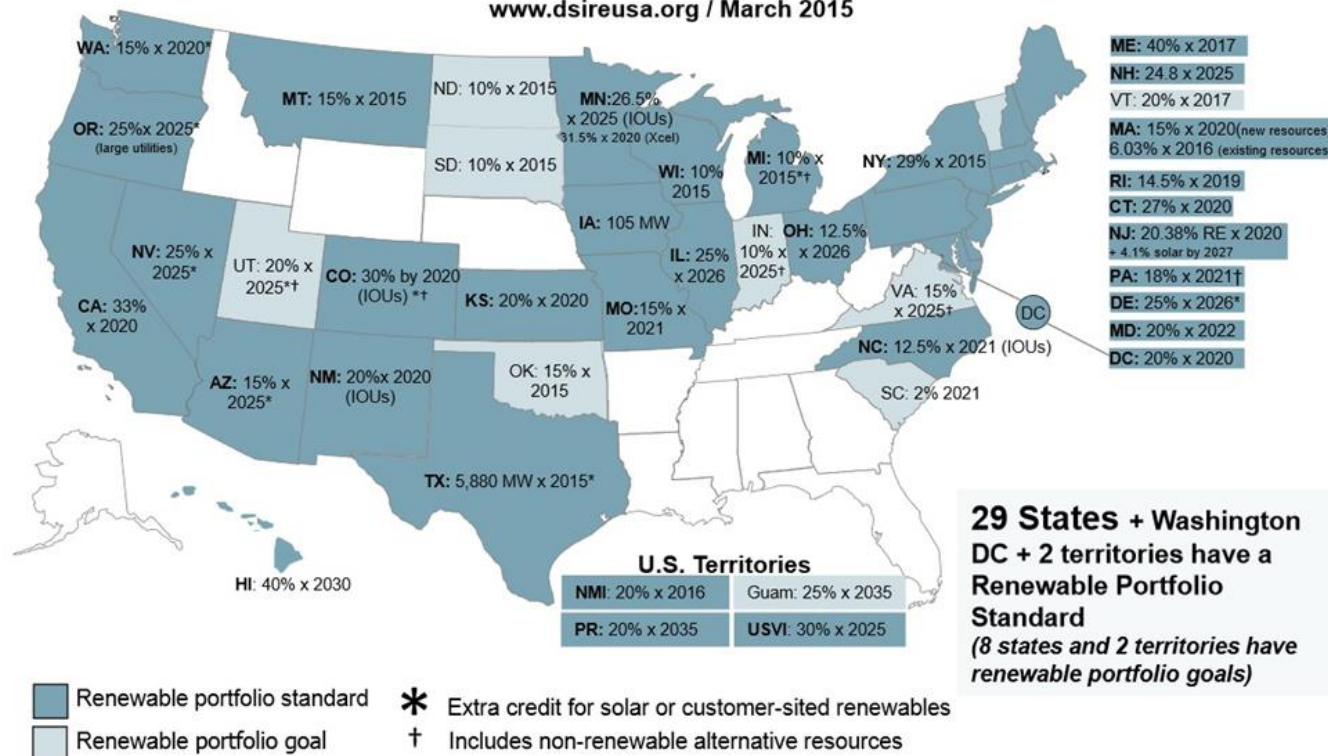


U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

Renewable Portfolio Standard Policies

www.dsireusa.org / March 2015



Source: U.S. Department of Energy: Energy Efficiency & Renewable Energy.

<http://ncsolarcen-prod.s3.amazonaws.com/wp-content/uploads/2014/11/Renewable-Portfolio-Standards.pdf>



Climate Action in the U.S.-EERS

DSIRE®

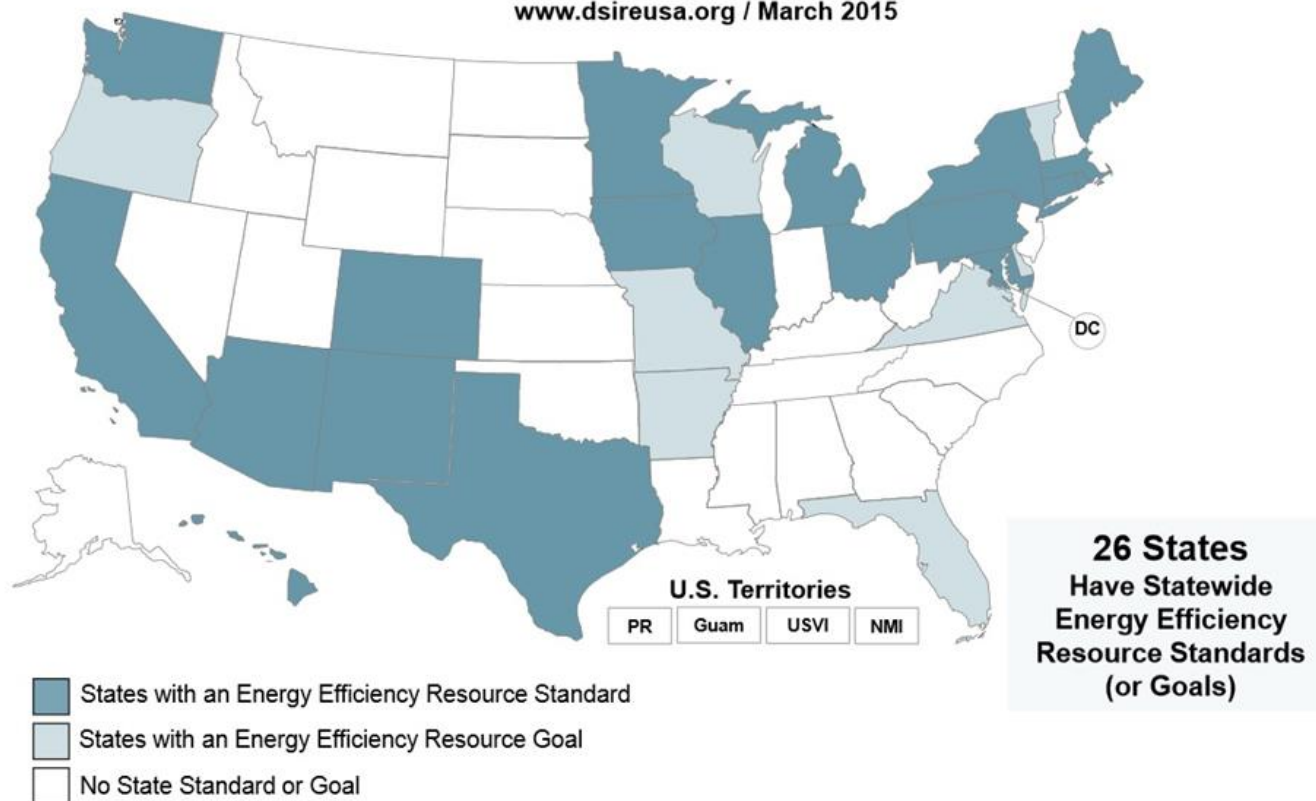


U.S. DEPARTMENT OF
ENERGY

Energy Efficiency &
Renewable Energy

Energy Efficiency Resource Standards (and Goals)

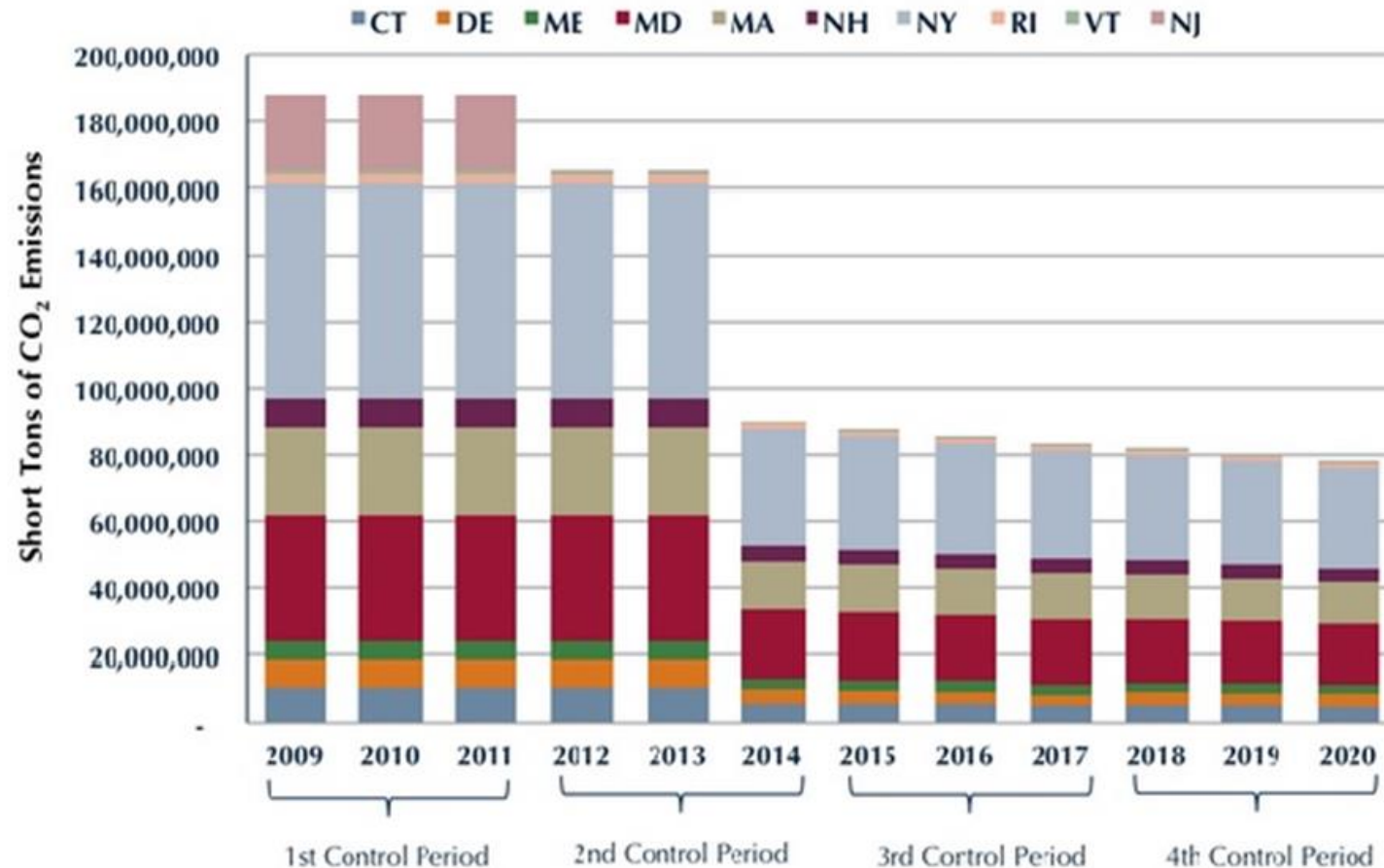
www.dsireusa.org / March 2015



Source: U.S. Department of Energy: Energy Efficiency & Renewable Energy. <http://ncsolarcen-prod.s3.amazonaws.com/wp-content/uploads/2015/03/Energy-Efficiency-Resource-Standards.pdf>



Carbon Pricing in the U.S.



Clean Power Plan



Big Bend Coal Power Station in Apollo Beach, Florida in the United States. (Photo: Wknight94 / Wikimedia Creative Commons)



State Level Climate Efforts

New York—Customer Control

No. Carolina—Energy Freedom Act

Florida—Ballot Solar Choice

Georgia—3rd Party Solar Leasing

Hawaii—Clean Energy Initiative





City-Led Clean Energy Innovation

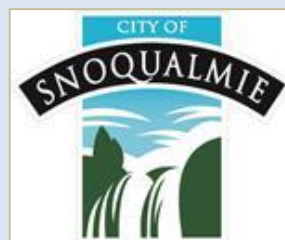
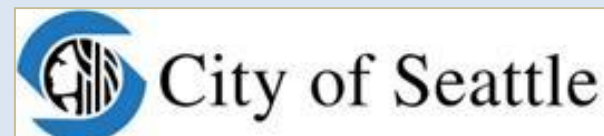
- 100 Percent Renewable Cities
- Carbon Neutral Cities
- New Energy Cities





KING COUNTY-Cities

CLIMATE COLLABORATION



Fossil Fuel Industry Thwarts Progress



[Home](#) > [What We Do](#) > [Stop Global Warming](#) > [PolluterWatch](#) >
Koch Industries: Secretly Funding the Climate Denial Machine

Koch Industries: Secretly Funding the Climate Denial Machine

The Koch Brothers have sent at least \$79,048,951 to groups denying climate change science since 1997.

Greenpeace uses 1997 as a benchmark year due to increased coordinated backlash against global climate negotiations leading to the Kyoto Protocol of 1998. We define climate change denial as "anyone who is obstructing, delaying or trying to derail policy steps that are in line with the scientific consensus that says we need to take rapid steps to decarbonize the economy [\[2\]](#)."

PolluterWatch

Koch Indust

- > CASE STUDI
- > CASE STUDI
- > CASE STUDI
- > CASE STUDI
- > Koch Indu:
- > Koch Direc
- > Koch PAC I
- > Koch Fund
- > Koch Indu:

GREENPEACE

Greenpeace USA



Secret funding helped build vast network of climate denial thinktanks

Anonymous billionaires donated \$120m to more than 100 anti-climate groups working to discredit climate change science

● How Donors Trust distributed millions to anti-climate groups



Climate sceptic groups are mobilising against Obama's efforts to act on climate change in his second term.
Photograph: Justin Sullivan/Getty Images

But It's Not Working As Well Now



U.S. Engaged



“Say You Want a Revolution?”



“[t]he U.S. is on the verge of a **REVOLUTION** in the way we make, move, and use energy.”



Thank you

Eileen V. Quigley
Director of Strategic Innovation

eileen@climatesolutions.org

206.443.9570 x 34 (office)

206.579.9644 (mobile)



Climate Solutions.
PRACTICAL SOLUTIONS TO GLOBAL WARMING

