Stacking the Benefits of Clean Energy

Health

Agricultural

Environmental





Renewable Energy Summit 2019: Stacking the benefits of renewables



January 17, 2019

Key Pillars of Deep Decarbonization

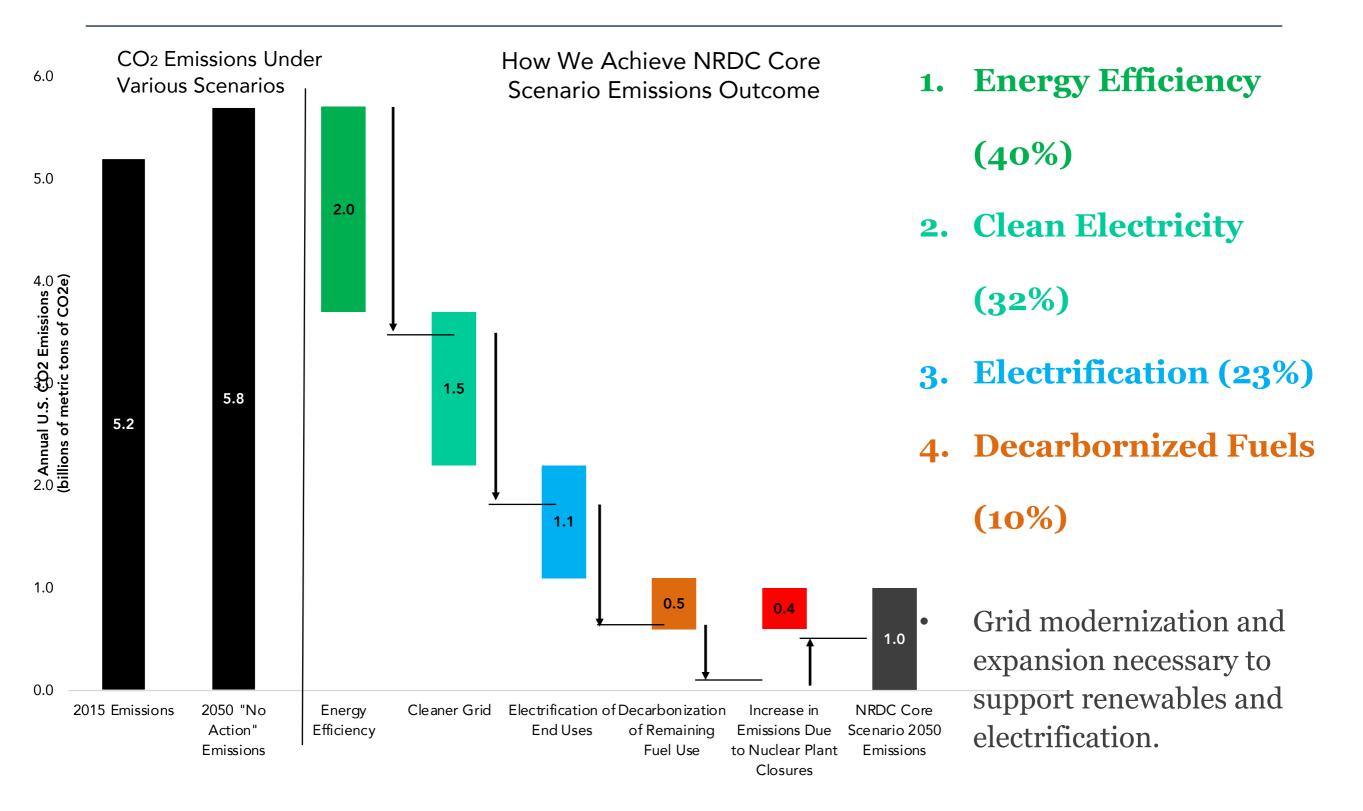


ENERGY EFFICIENCY

RENEWABLE ENERGY

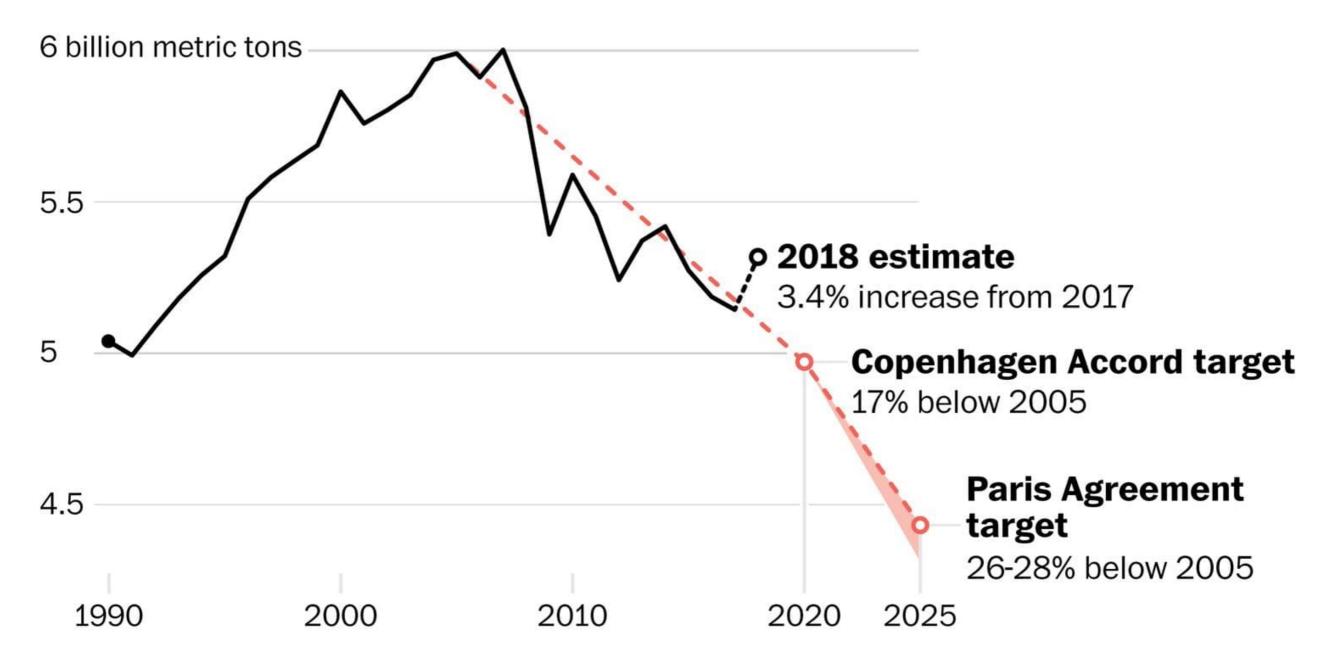
ELECTRIFICATION

NRDC's PATHWAY: How we get to 80x50



U.S. drifts farther from emissions targets

Energy-related CO₂ emissions are estimated to have increased in 2018

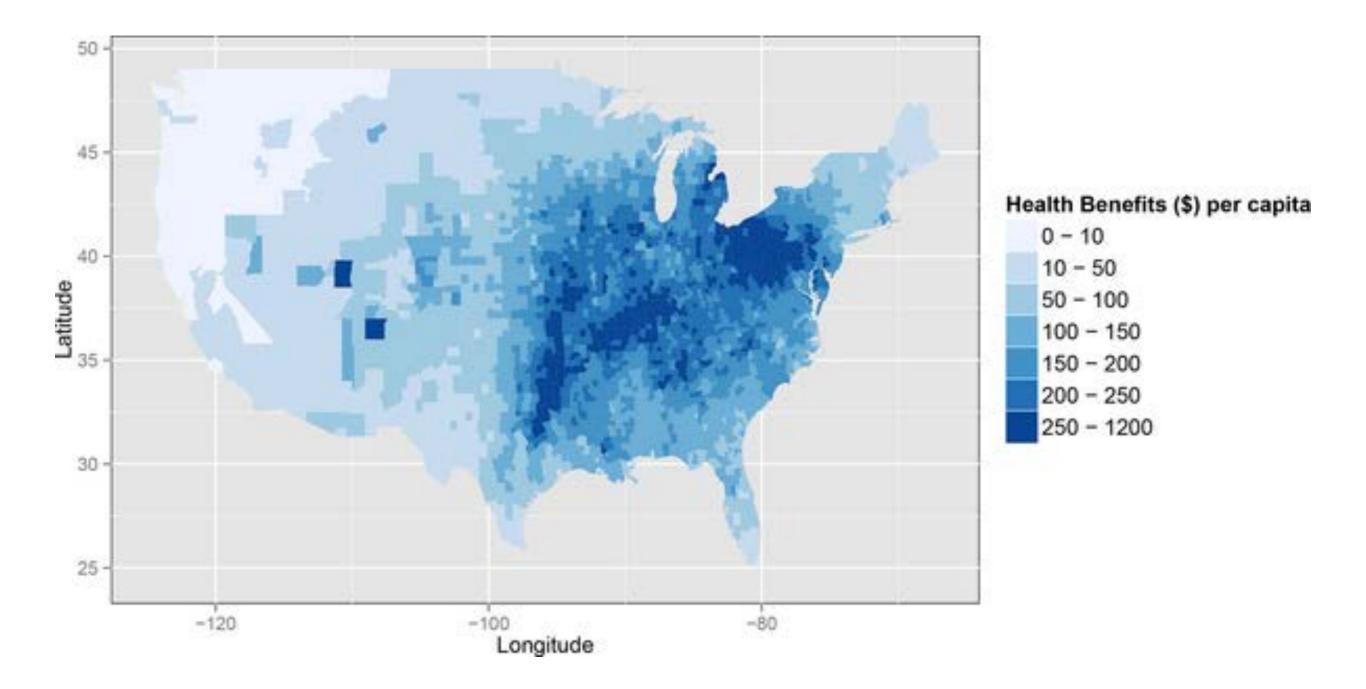


Note: Energy-related CO₂ emissions represent roughly three-quarters of all U.S. greenhouse gas emissions.

Source: Rhodium Group

JOHN MUYSKENS/THE WASHINGTON POST

Fig 2. Annual co-benefits per capita for 18 to 99 year-olds under moderately stringent, highly flexible carbon standards in 2020 (2010 USD).



Buonocore JJ, Lambert KF, Burtraw D, Sekar S, Driscoll CT (2016) An Analysis of Costs and Health Co-Benefits for a U.S. Power Plant Carbon Standard. PLOS ONE 11(6): e0156308. https://doi.org/10.1371/journal.pone.0156308 https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0156308



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ergy from more than 1,200 solar panels powers Benjamin Freund's 650-acre dairy farm and home in East Canaan, Conn. Solar Projects Sow Tension On the Bright Side tion of Counties.

s panels supplant rops on more farms, states weigh limits on big renewable fields

BY JOSEPH DE AVILA

The boom in solar energy is forcing states and farming communities to grapple with where large renewable-energy projects should be built.

In Connecticut, a state senator has proposed a bill that would discourage the use of farmland for solar projects.

The pressure in rural areas U.S. solar power generation in stems, in part, from simple thousand megawatt hours economics. Some farmers are installing solar panels on a patch of their land to help off-30,000 set energy costs. Other farmers are renting out entire fields to solar companies that 20,000 can afford to pay premium prices for access to clear fields that don't require much work 10,000 or money to prepare for a solar project.

"Of course, there can be local tension in terms of what people are used to on the Source: Department of Energy farmland, what people like to THE WALL STREET JOURNAL. see in a rural environment," the Bonen director of

2016: 36,755 -

2010

ling Clean Energy

2006

A. Same

Benjamin Freund, who has a dairy farm in East Canaan, Conn., in recent years installed more than 1,200 solar panels on a patch of his land and on top of his dairy barn. The generated power offsets his entire \$6,000 monthly energy bill.

peting with solar companies when he needs access to other farmland, but he also doesn't like being told what he can

"From a property rights standpoint, this is a heavyhanded way to say that my property no longer has this de-

the application.

He said he doesn't like com-

build on his property.



Turfgrass

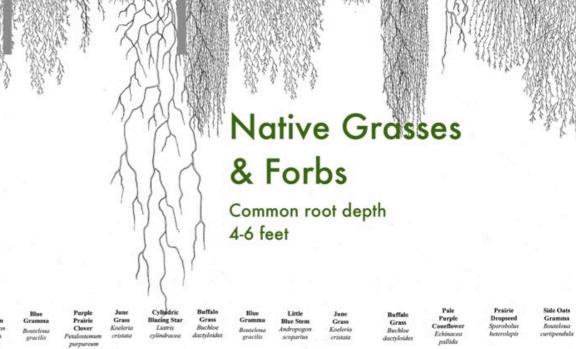
Maximum root



DEEP DIVE

Pollinator habitats: The bees' knees of rural solar development

As utility-solar grows, environmentalists, academics and beekeepers encourage utilities to consider their ecological footprint more holistically.



Solar Site Management for Soil, Storm Water, and Pollinator Benefits

Organic Valley launches community solar partnership to be 100 percent renewably powered by 2019



Farmer-owned cooperative will become the largest food company in the world to source all its electricity from renewable resources within the decade.

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BRIEF

In bid to help bees, Xcel to require vegetation disclosure in solar RFPs

AUTHOR

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Dive Brief:

• Xcel Energy Minnesota announced Friday it will be the first utility in the



