



# Union of concerned scientists renewable energy

4 days ago&#0183; While renewable energy deployment is essential to mitigate climate change, the interplay between renewable energy consumption and environmental degradation may not be ...

Overall, renewable energy sources including solar help to stabilize and make the U.S. electricity system more resilient, both economically and environmentally. References: [1, 2, 3] Fraunhofer Institute. 2015. Photovoltaics report. [4] International Energy Agency (IEA). 2014. Technology roadmap: Concentrating solar power. Paris, France.

To many people, the most familiar forms of renewable energy are the wind and the sun. But biomass (plant material and animal waste) is the oldest source of renewable energy, used since our ancestors learned the secret of fire. Note: This page addresses biopower--using biomass to generate electricity.

Fortunately, Minnesota can show climate leadership and meet 100% of its electricity needs with renewable energy by 2035, according to "On the Road to 100% Renewables for Minnesota,&quot; an analysis released today by COPAL and the Union of ...

Since the late 1990s, the DOE National Renewable Energy Laboratory (NREL) has been working with state governments to produce and validate high-resolution wind resource potential assessments on a state-by-state basis. ... Union of Concerned Scientists (UCS). 2013. Ramping Up Renewables: Energy You Can Count On. [5] Anthony Lopez, Billy Roberts ...

A Union of Concerned Scientists (UCS) analysis examines the tremendous opportunities--and challenges--for the United States as it seeks to reduce its heat-trapping emissions in line with science-informed goals, meet its international commitments, and, at the same time, realize significant economic and public health benefits.

The US Department of Energy (DOE)'s Advanced Research Projects Agency-Energy (ARPA-E) has a program dedicated to research on storage that can provide power for long durations (10-100 hours). Extended discharge of storage systems can enable long-lasting backup power and even greater integration of renewable energy.

6 days ago&#0183; According to the Union of Concerned Scientists, "studies as well as field and aerial measurements have shown that high rates of methane leakage can be found throughout the natural gas system ...

To answer this, the Union of Concerned Scientists undertook a comprehensive, two-year review of the climate emissions from vehicle production, operation, and disposal. We found that battery electric cars generate half the emissions of the average comparable gasoline car, even when pollution from battery manufacturing is accounted for.



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The energy business is one of the largest industries in the world. Major fossil fuel companies routinely make billion-dollar profits, extracting and distributing oil, gas, and coal. Unfortunately, fossil fuels produce carbon dioxide (CO<sub>2</sub>) when burnt--and CO ...

A comprehensive overview of solar power technologies, benefits, costs, and more from the Union of Concerned Scientists, including rooftop solar panels, large-scale solar power plants, and how solar panels work. ... By investing in renewable energy, we can directly ramp down gas--and decrease its climate, health, and environmental harms.

The Union of Concerned Scientists (UCS) is a national nonprofit organization founded more than 50 years ago by scientists and students at the Massachusetts Institute of Technology. Our mission : The Union of Concerned Scientists puts rigorous, independent science into action, developing solutions and advocating for a healthy, safe, and just future.

John Rogers is a senior energy analyst at the Union of Concerned Scientists with expertise in clean energy technologies and policies and a focus on solar, wind, and natural gas. ... Reducing Reliance on Natural Gas through Renewable Energy. Union of Concerned Scientists. Cambridge, MA. Garcia, P., J. McNamara, J. Rogers, and M. Ru. 2015.

A survey by the National Renewable Energy Laboratory of large wind facilities in the United States found that they use between 30 and 141 acres per megawatt of power output capacity (a typical new utility-scale wind turbine ...

The state took an important first step toward a cleaner energy future when it passed its renewable electricity standard (RES) in 2008, which requires Michigan utilities to ramp up renewable energy development to meet 10 percent of the state's electricity needs by 2015.

ELCC is not a new concept, but its use has skyrocketed in the past decade. At its core, the ELCC of a generating resource is a measurement of that resource's ability to produce energy when the grid is most likely to experience ...

[12] U.S. Energy Information Administration (EIA). 2014. Annual Energy Outlook 2014. [13] Office of Energy Efficiency and Renewable Energy (EERE). 2008a. An evaluation of enhanced geothermal systems technology. Washington, DC: U.S. Department of Energy. [14] Tester, J. et al. 2006.

New analysis by the Union of Concerned Scientists reveals that renewable energy, not gas, is the state's lowest-cost long-term solution. A strengthened renewable portfolio standard (RPS) would help ensure the transition to clean energy actually takes place.



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The Union of Concerned Scientists undertook a comprehensive analysis of the most prominent and well-funded non-light-water reactor (NLWR) designs. We asked: What are the benefits and risks of NLWRs and their fuel cycles ? ... renewable energy sources such as wind and solar. The current rate of construction of new nuclear plants around the world ...

The economics of rooftop solar. Rooftop solar is increasingly cost-effective for home owners, business owners, and their communities. Reductions in technology prices, innovative financing, and growing networks of solar installers and financial partners all helped drive down the prices for household systems in the United States by 45% percent from 2010 to ...

The Production Tax Credit (PTC) is a federal incentive that provides financial support for the development of renewable energy facilities. Companies that generate electricity from wind, geothermal, and "closed-loop" bioenergy (using dedicated energy crops) are eligible for a federal PTC, which provides a 2.3-cent per kilowatt-hour (kWh) incentive for the first ten ...

State and federal policymakers across the US have taken notice of the potential of hydrokinetic energy, and have begun to support its development through legislative and monetary means; ocean energy is an eligible resource for credit under renewable electricity standards in sixteen states, and for federal renewable energy production tax credits ...

The Union of Concerned Scientists puts rigorous, independent science to work to solve our planet's most pressing problems. Joining with people across the country, we combine technical analysis and effective advocacy to create ...

The Union of Concerned Scientists opposes the deployment of solar geoengineering because it poses unacceptably high environmental, social, and geopolitical risks. Instead, UCS supports continued modeling research, observational studies, and strong, inclusive public participation in decision-making over whether and how further research should ...

The U.S. Federal Energy Regulatory Commission (FERC) released new rules today that will help accelerate the transition to a clean and equitable electric system by working to build more transmission capacity, according to the Union of Concerned Scientists (UCS).

A new fact sheet by the Union of Concerned Scientists (UCS), "Why Does Wind Energy Get Wasted?" explores the main causes of wind curtailment. ... "by building more transmission to more effectively move renewable energy across the grid, by turning coal plants down or off so that renewables can get from the grid to the load, and by building ...

Renewable energy is growing rapidly and is already a significant source of electricity in many states and countries. The amount of electricity generated from renewable sources such as wind and solar power increased



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nearly four-fold in the United States from 2007 to 2012.

Paula Garcia is a Senior Bilingual Energy Analyst and Energy Justice Lead in the Climate and Energy Program at the Union of Concerned Scientists. She evaluates energy resource and climate solutions in the electricity sector and works to further public understanding of clean energy technologies, policies and markets. ... Reducing Reliance on ...

The Union of Concerned Scientists advocacy group estimates that at least 32,000 deaths could be prevented if the U.S. can achieve net-zero emissions by 2050, as renewable ...

The Union of Concerned Scientists (UCS) and an expert advisory committee released a report that confirms that the US can and must meet its climate goals by sharply phasing down fossil fuels throughout the economy by ramping up clean energy solutions such as renewable energy, energy efficiency, and widespread electrification.

Information on renewable energy, including wind and solar power; nuclear-power safety issues and work of the Union of Concerned Scientists to switch America to clean, safe, renewable, and affordable power.

2 union of concerned scientists and concentrating solar power (CSP) systems constitute the majority of solar's electricity-generating capacity overall. All three help to stabilize and make ...

Climate change is one of the most devastating problems that humanity has ever faced--and the clock is running out. Table of Contents Climate change is one of the most devastating problems that humanity has ever faced--and the clock is running out. For over 200 years, humanity has powered itself ...

From our regional office in Oakland, the Union of Concerned Scientists has advocated for climate, energy, and transportation legislation for decades. We're fighting for rules that cut carbon equitably, recognizing that policies won't work if they ignore the communities most affected by climate change. We're also focused on the science.

Colorado's proposed renewable energy standard is in the middle of what the other 17 states have already adopted. The proposed minimum rebate for solar systems is among the lowest of rebates currently available in 16 other states. The Union of Concerned Scientists (UCS) analyzed the costs and benefits of the renewable energy standard as written ...

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