

Compared to command-and-control regulations, carbon pricing is a market-based mechanism that creates financial incentives to reduce greenhouse gas (GHG) emissions. Twelve states that are home to over a quarter of the U.S. population and account for a third of U.S. GDP have active carbon-pricing programs and are successfully reducing emissions. Those states are California, ...

The introduction of a thermal renewable energy certificate could also make tracking and claims easier and more standardized for these types of projects. The Renewable Thermal Collaborative (RTC) is facilitated by the Center for Climate and Energy Solutions, David Gardiner and Associates, and World Wildlife Fund. The goal of the RTC is to raise ...

The Center for Climate and Energy Solutions (C2ES) is pleased to present a hybrid public event during New York Climate Week and the UN General Assembly. ... Key topics will also include renewable energy integration, climate finance, and the implementation of Article 6. Attendees can look forward to engaging high-level panel discussions, an ...

C2ES's latest series of papers provides recommendations to take forward key targets and signals from the first GST. For a summary of recommendations, ... Other critical policy signals to parties from COP28 include tripling renewable energy capacity and doubling energy efficiency globally by 2030, as well as reflecting such efforts in the new ...

In early June, C2ES convened a group of stakeholders from across Virginia for a regional roundtable on long duration energy storage. The conversation highlighted opportunities for LDES to play a role in the energy transition in Virginia, and paired LDES companies and experts with policymakers and community representatives interested in learning ...

the Climate Innovation 2050 initiative, the Center for Climate and Energy Solutions (C2ES) ... with renewable energy.<sup>1</sup> About half of industrial heat is used for low- or medium-temperature processes (below 400 degrees C or 750 degrees F), while the other half

**Policy Options Carbon Price.** A price on carbon, such as a greenhouse gas cap-and-trade program, would raise the cost of electricity produced from fossil fuels relative to low-carbon sources. Electric energy storage would then have increased value where relatively inexpensive low-carbon electricity could be stored to displace carbon-intensive power.

The Center for Climate and Energy Solutions (C2ES) has identified a number of possible high-level signals for success at COP28; including: ... Tripling renewable energy capacity by 2030, including increasing the share of renewable energy sources in global electricity generation to at least two-thirds by 2030 with the aim



## C2es renewable energy

of full decarbonization ...

The Bailey Bioenergy Facility is saving DC Water \$10 million a year in energy costs and has reduced Blue Plains" carbon emissions by 50,000 tons each year, he said. The solution, which can be implemented elsewhere, takes what is literally a waste product and turns it into a renewable resource that can be relied on for electricity.

Attend renewable thermal panels on everything from case studies to financing to innovation; and then find new partners during a variety of networking opportunities, including a reception and plated dinner. ... government officials, and other stakeholders working to decarbonize thermal energy, including leaders from C2ES. Connect with us in ...

Currently, the most common way to fulfill renewable energy matching commitments is through power purchase agreements (PPAs). Through a PPA, a tech company directly buys wind or solar from an independent developer or pays a utility to procure those renewables and act as a broker. ... C2ES Comments on IRC Sections 45Y and 48E. These ...

focuses on the GST decision"s call to Parties to contribute to, in a nationally determined manner, the tripling of renewable energy capacity globally by 2030; sets out barriers and solutions, as identified by our work and others, that must be addressed and ...

Renewable Energy: Renewable energy harnesses the power of the wind, sun, water, tides and other planetary resources (like geothermal heat, which comes from the Earth"s core) to produce electric power. Agricultural "biomass" products also can be used to generate electricity and heat when combusted with coal. ... C2ES thanks the Alcoa ...

Interest in microgrids is growing because of their ability to incorporate renewable energy sources and sustain electricity service during natural disasters. To increase deployment, a clear legal framework is needed to define a microgrid and set forth the rights and obligations of the microgrid owner with respect to customers and the larger ...

The company issued \$5.75 billion in sustainability bonds in 2020, and signed agreements totaling nearly six gigawatts of renewable energy from 2021 to 2020. As a result of renewable energy purchasing, Google decreased its cumulative scope 1 and scope 2 emissions 65 percent from 2011 to 2021 compared to a business-as-usual scenario.

By developing and scaling a diverse set of on-site generation and storage technologies and leveraging innovative approaches for off-site generation, Kaiser Permanente and Fifth Third Bank are using renewable energy to transform their environmental footprints and better serve communities.

Energy storage is crucial to enabling new clean energy to serve as firm, reliable electricity generation. Virginia



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has one of the largest state-level energy storage targets in the country, with a goal to deploy 3.1 GW of energy storage capacity by 2035--enough to power more than 2.3 million homes--and aims to procure 100 percent of its electricity from non-emitting sources by ...

The Commission underscored the necessity of employing a wide range of net-zero technologies, including renewable energy, nuclear energy, energy efficiency, storage, Carbon Capture Storage, Carbon Capture Utilization carbon removals, geothermal and hydro-energy, and all other current and future net-zero energy technologies. ... C2ES is working ...

This is one in a series of briefs prepared as part of C2ES's Climate Innovation 2050 initiative, which brings together leading companies to examine potential pathways toward substantially decarbonizing the U.S. economy. Other briefs focus on Agriculture & Forestry, Manufacturing, Oil & Gas, Power Generation, and Transportation. (Note: Full citations to supporting materials can ...

Publication Enhancing Action & Cooperation for the Tripling of Renewable Energy Capacity Globally. In order to implement the GST targets and signals through enhanced NDC ambition and implementation, major barriers must be meaningfully addressed, turned into opportunities for enhanced international cooperation, and translated into development ...

Canada has one of the cleanest electricity systems in the world. In 2016, about 80 percent of Canada's electricity came from zero-emitting sources like conventional hydropower, wind, solar, and nuclear. Canada has set a goal of increasing the share of zero-emitting sources to 90 percent by 2030. Four Canadian provinces require electricity utilities to deliver [...]

This brief explains how and why renewable energy certificates (RECs) differ from greenhouse gas (GHG) emission offsets (offsets). While the Offset Quality Initiative (OQI) is a strong supporter of renewable energy and believes it has a critical role to play in addressing climate change, OQI does not believe that RECs sold in voluntary green power or mandatory renewable energy ...

C2ES aims to advance policies and actions to reduce greenhouse gas emissions, promote and accelerate the clean energy transition, strengthen adaptation and resilience to climate impacts, and facilitate the necessary financial investments to achieve this. The organization provides information and analysis on the scientific, economic, technological, and policy dimensions of climate and energy challenges. Their solutions are formed by stakeholder processes, bringing t...

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