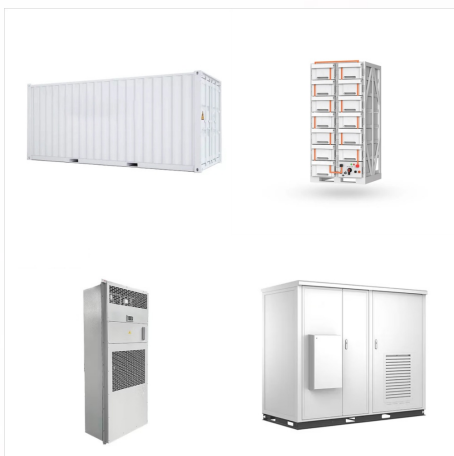


The other six cities that are already running on 100 percent renewable energy are Aspen, Colorado, Burlington, Vermont, Georgetown, Texas, Greensburg, Kansas, Rock Port, Missouri and Kodiak Island



Download this piece as a PDF. By Joshua Rhodes\*  
Georgetown, TX has received a lot of attention in the media and elsewhere for its decision a few years ago to contract for 100% renewable electricity, partly because it was one of the first municipalities to do so, and partly because Georgetown is not nearly as "blue" as the People's Republic of Austin just 30 miles ???



However, wind and solar energy are intermittent sources that currently need back up power from reliable energy sources like coal, nuclear, and natural gas to keep the lights on, keep our homes heated, and keep our factories running. The truth is, the physics of wind and solar energy render 100 percent renewable energy nothing more than a myth.

# CAN A CITY RUN ON 100 RENEWABLE ENERGY



Cities should set ambitious clean energy targets now ??? 100% clean electricity by 2035, and 100% clean energy by 2050 ??? to reap local benefits for air pollution, health, jobs and energy security. ???

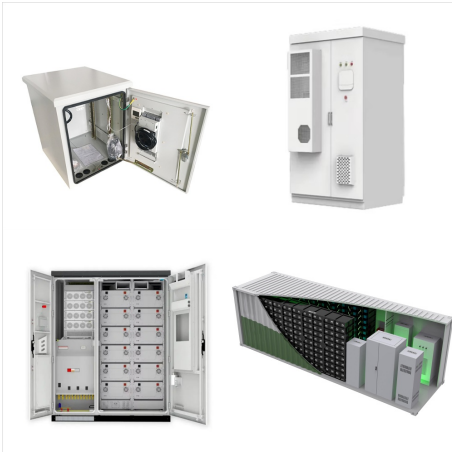


The city of Santa Barbara made an ambitious commitment last week. By 2030, the city wants to run entirely on clean, renewable energy. Santa Barbara is the 30th city in the United States to commit to this goal, along with places like San ???



In addition, a ground-breaking study by the US Department of Energy's National Renewable Energy Laboratory (NREL) explored the feasibility of generating 80 percent of the country's electricity from renewable sources by 2050. They found that renewable energy could help reduce the electricity sector's emissions by approximately 81 percent .

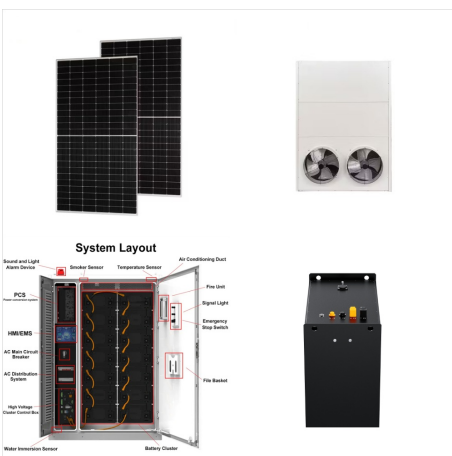
# CAN A CITY RUN ON 100 RENEWABLE ENERGY



"The Sapphire Wind Farm produces enough clean energy to power 115,000 homes and displaces 700,000 tonnes of carbon dioxide, while bringing economic benefits to the local NSW New England region and the ACT." The headline of this story was updated on 1 June 2021. Renewable energy was replaced by renewable electricity.



San Diego is not waiting for Washington to get its act together on climate change. The southern California city is moving forward with an ambitious plan to run on 100% renewable energy and cut



The city of Las Vegas officially achieved a milestone last week, when Boulder Solar 1 ??? a solar power plant on the edge of Boulder City, Nevada ??? went live. According to the Huffington Post

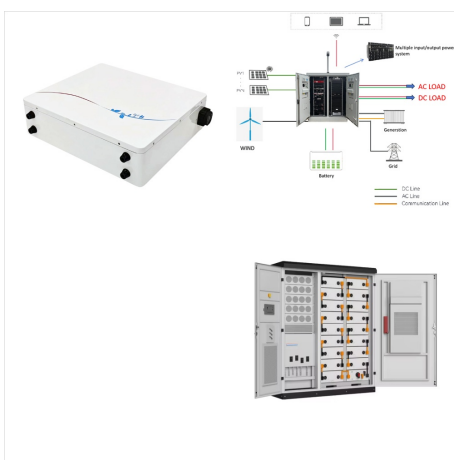
# CAN A CITY RUN ON 100 RENEWABLE ENERGY



The Bay Area city is pushing to go 100% renewable in the next six years with the help of solar energy and reductions in how much energy the city uses overall. Population: 960,000 100% renewable



OAKLAND, Calif. ??? Across the United States, 100 cities and towns have committed to transition to 100 percent clean, renewable energy. On Dec. 5, Cincinnati, Ohio became the 100th city in the nation to establish this goal when its City Council approved a resolution committing to 100 percent renewable energy by 2035. Cincinnati's community-wide ???



The City of Sydney ??? the central business district of Sydney and its surrounding inner city suburbs ??? will now be powered using 100% renewable energy, a switch forecast to save half a million dollars and 200,000 tonnes of CO2 emissions from ???

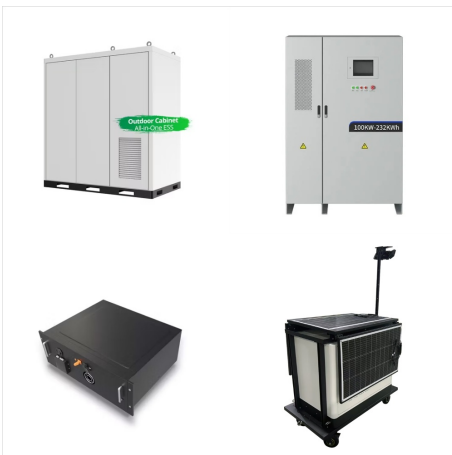
# CAN A CITY RUN ON 100 RENEWABLE ENERGY



A rapid, global transition to renewable energy is essential to avoid the worst impacts of climate change. Cities are vital to this shift as they are major energy consumers, accounting for around three-quarters of global final energy use. 1 Cities have the power to send a strong demand signal to the energy sector, the leverage to shift regional or national policies, and the opportunity to



If it buys enough renewable energy to cover its consumption, it can claim to be "consuming 100 percent renewable energy." Think of it as a shared pool of drinking water. Water comes in from



Renewable energy comes from unlimited, naturally replenished resources, such as the sun, tides, and wind. Renewable energy can be used for electricity generation, space and water heating and cooling, and transportation. Non-renewable energy, in contrast, comes from finite sources, such as coal, natural gas, and oil.



# CAN A CITY RUN ON 100 RENEWABLE ENERGY



Mumbai, May 31, 2023 ??? Capgemini today announced that its facilities in India are operating on 100 percent renewable energy (RE), achieving a new sustainability milestone. This allows the company to avoid over 70,000 tonnes of carbon emissions per annum. The company transitioned to 100 percent renewable energy through onsite renewable energy generation, offsite ???



It finds that every city has massive potential to cost-effectively boost renewable energy use at the local level. The report outlines three priority areas where cities can take action: renewable energy in buildings (for heating, cooling, cooking, and appliances); sustainable options for transport (electric mobility and biofuels); and creating



Cities powered by renewable energy is defined as "city-wide", not just municipal. Data on renewable energy mix is self-reported via CDP's questionnaire. This data is from cities disclosing to us in 2015, 2016 and 2017. 314 cities in 2015 increasing to 533 ???

# CAN A CITY RUN ON 100 RENEWABLE ENERGY



Every year, the world uses 35 billion barrels of oil. This massive scale of fossil fuel dependence pollutes the earth, and it won't last forever. On the other hand, we have abundant sun, water and wind, which are all renewable energy sources. So why don't we exchange our fossil fuel dependence for an existence based only on renewables? Federico Rosei and Renzo Rosei ???



The simulation aims to find the minimum cost of the installed capacity for supplying electric power to a city with 100% renewable energy resources and BESS. The simulation determines the appropriate values of wind, solar, and a battery that could cover the total load for all the available data. A total of 24 h for loss of load has been



Iceland has achieved even greater success with using geothermal energy for heating. In 1933, only 3 percent of Reykjavik's population was served by a district heating system. Nearly everyone used

# CAN A CITY RUN ON 100 RENEWABLE ENERGY



It was nearly 100 degrees, one of the hottest days during the hottest summer on global record when Tallahassee's City Commission voted unanimously to approve its Clean Energy Plan ??? a guide for the city to run on net 100% renewable energy by 2050. The plan lays out actions for the rest of this decade, but how the city will reach that end goal is still being ???



Its biggest success: 100% of the city grid's electricity comes from renewable sources. Not only is its electricity clean, but it's affordable too. The city hasn't raised energy rates in eight years. As the first city in the country to make such a leap, there's much we can learn from their experience as other cities follow their lead.



??? Last year, Google consumed as much energy as the city of San Francisco. Page 1 of the New York edition with the headline: Google Says Its Data Centers Will Run Entirely on Renewable Energy



# CAN A CITY RUN ON 100 RENEWABLE ENERGY



At smaller scales, hundreds of U.S. cities, states, and corporations have already taken bold action in setting their own local targets for 100% renewable energy???and with recent analyses like the Los Angeles 100% Renewable Energy Study (LA100), we have growing confidence that reliable, 100% renewable power grids are feasible.



The road maps show how 80 to 85 percent of existing energy could be replaced by wind, water, and solar by 2030, with 100 percent by 2050. The result is a substantial savings relative to the status