

A new report by the National Renewable Energy Laboratory (NREL) examines the types of clean energy technologies and the scale and pace of deployment needed to achieve 100% clean electricity, or a net-zero power grid, in the United States by 2035. This would be a major stepping stone to economy-wide decarbonization by 2050.

The cumulative off-grid renewable energy capacity has increased from 231 megawatts (MW) in 2008 to nearly 1.2 GW in 2017 (Figure 3). The deployment of solar technologies has been a key driver of growth in off-grid capacity, with over 820 MW installed as solar lights, home systems and mini-grids and for commercial/public services.

Wind, currently the most prevalent source of renewable electricity in the United States, grew 14% in 2020 from 2019. Utility-scale solar generation (from projects greater than 1 megawatt) increased 26%, and small-scale solar, such as grid-connected rooftop solar panels, increased 19%.

For the study, funded by the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy, NREL modeled technology deployment, costs, benefits, and challenges to decarbonize the U.S. power sector by 2035, evaluating a range of future scenarios to achieve a net-zero power grid by 2035.

Off-grid renewable power can come from a variety of sources, ranging from large isolated power grids to solar lights and solar home systems. In addition to households, off-grid renewables provide power for water pumping, street lighting, telecommunications towers, rural schools and clinics, as well as for remote commercial and industrial ...

USADF is an independent U.S. Government agency established by the U.S. Congress to support and invest in African-owned and African-led enterprises that improve the lives and livelihoods of people in underserved communities in Africa.

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This article explains what off-grid living is and why it's appealing to more people than ever. Whether you're looking to live completely off the grid or increase your energy independence (and eliminate your power bill), see how Panasonic's solar panels and EVERVOLT home battery system can get you there.

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For many people, powering their homes or small businesses using a small renewable energy system that is not connected to the electricity grid -- called a stand-alone system -- makes economic sense and appeals to their environmental values.

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