



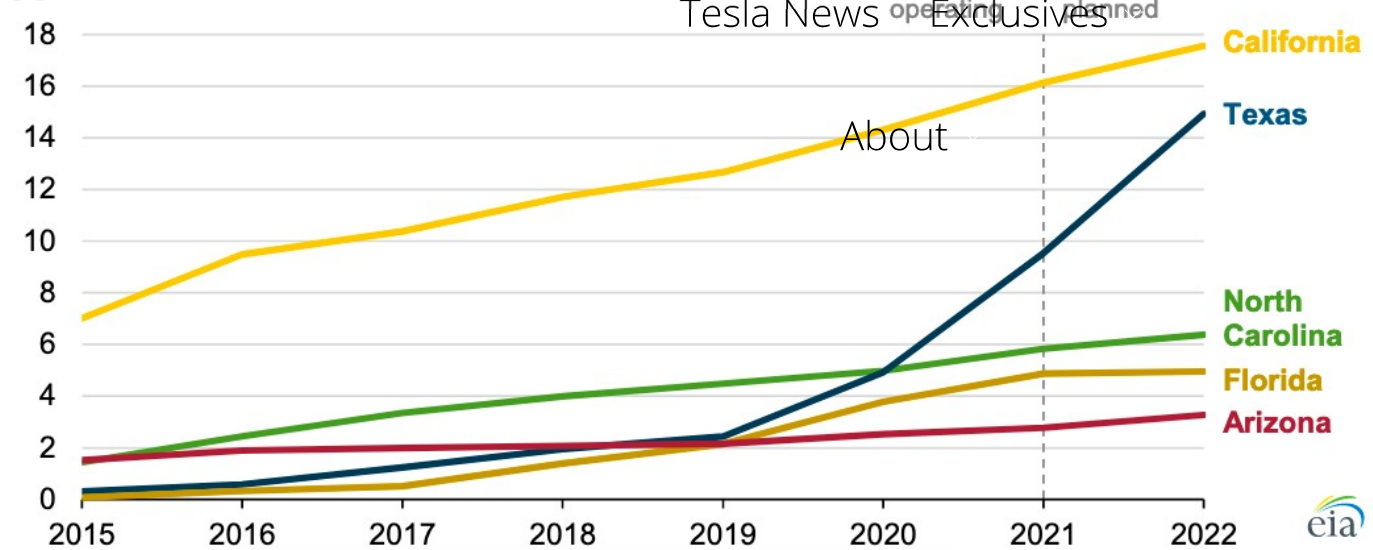
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Utility-scale solar capacity, top five states as of 2020 (2015–2022)

gigawatts



Source: U.S. Energy Information Administration, [Detailed State Data](#), [Preliminary Monthly Electric Generator Inventory](#)

Texas is staking its claim to the renewable energy economy of the future, with wind, solar, and green hydrogen, too (via US Energy Information Agency).

## CLEAN POWER

# If All Goes According To (Renewable Energy) Plan, Texas Will Be Fine

With its mighty power grid stumbling under the weight of extreme weather, Texas is staking its claim to the renewable energy economy of the future and green hydrogen is in the mix.



By [Tina Casey](#) Published June 26, 2021



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Extreme weather has been punching holes in the legendary ERCOT power

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stability are popping up all across the state.

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# Lone Star State Stakes Renewable Energy Claim

Despite its status as a global oil and gas producer, Texas has somehow become a US wind power pace-setter and it is also coming on strong in the solar energy department, so let's leave that aside and take a look at something new and different.

Earlier this month, Texas A&M University let word slip that it is working on a "Floating Renewable Energy Station" that can harvest energy from multiple sources including waves, currents, and solar energy, in addition to wind energy.

"With questions about the short- and long-term reliability and sustainability

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Interesting! It's kind of weird to call nuclear energy renewable, but that's not what is really interesting. The interesting thing is the question of where they plan to park this ocean-going floating energy harvesting station.

Texas sits on the Gulf of Mexico, where offshore wind resources are less than optimal. Nevertheless, the Energy Department's National Renewable Energy Laboratory recently took a look at the potential for offshore wind development among the Gulf states, and Louisiana leaped at the opportunity. Texas did not seem interested, but piling multiple energy harvesting devices onto one platform could make the financials look more attractive.

The idea of combining solar panels with wind turbines is not a particularly new thing in the

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## EV SALES CHARTS, GRAPHS, & STATS

### World Plugin Vehicle Sales — Top Automakers (2020)

Top plugin electric vehicle automakers across world, with data aggregated by Jose Pontes of EV Volumes for CleanTechnica.com.

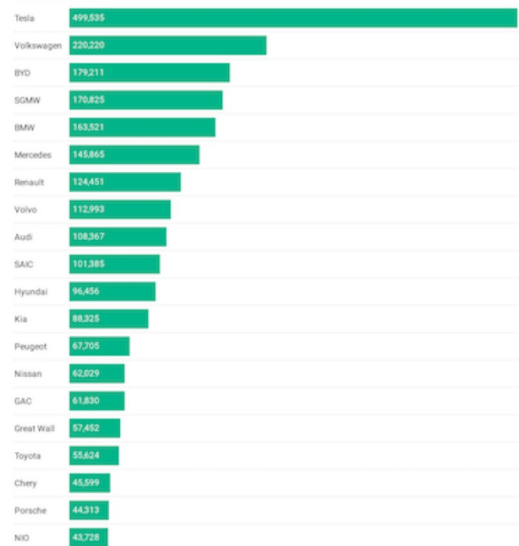


Chart: CleanTechnica • Source: EV Volumes • Created with Datawrapper

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with that.

In any case, TAMU research leader Moo-Hyun Kim is looking far beyond the shores of Texas. [Floating wind turbines](#) are already a thing in coastal areas where the water is too deep for conventional, fixed-platform construction. In the US, that would include practically all of the Pacific coast as well as Hawaii. Maine is another [floating wind-curious](#) coastal state.

## Of Course There Has To Be A Hydrogen Angle

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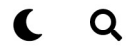
1 billion EUR of oil expenses per day



### RENEWABLE ENERGY 101 IN DEPTH

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global supply of hydrogen relies almost entirely on converting natural gas, but not for long. Electrolysis systems can also be put to work teasing hydrogen out of plain old water, with an electrical current. That made no sense when costs were high and the grid depended almost entirely on fossil fuels, but now low-cost renewable energy has changed the game.

In terms of Texas, and other coastal states, offshore wind farms could provide the clean kilowatts for onshore electrolysis facilities in

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systems.

The project launched in January, and the University of Texas has not been letting the grass grow under its feet.

Earlier this week, UT released study on the potential for [integrating hydrogen gas](#) into the nation's natural gas grid. There is already a movement afoot to transition [from natural gas to green hydrogen](#) for power plant

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said in a press statement. "In order to achieve the goal of having hydrogen as a meaningful sector in our current energy system with competitive cost, we need to see material progress in scaling up to pilot test capacity and strong cost reduction evidence in the

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