



MARKETS TECHNOLOGY MONEY HEALTHCARE ENERGY MINING GREEN POLITICS FEATURED COMPANIES

REPORTS

Road to Decarbonization: The United Sta Electricity Mix



The following content is sponsored by the National Public Utilities Council



U.S. ELECTRICITY MIX

ELECTRICITY GENERATION BY STATE (2020)

The U.S. has made some bold decarbonization pledges, including a carbon pollution-free utilities sector by 2035.

HAWAII



While some states are getting close to eliminating fossil fuels, others have a lot of work to do.



COAL











Water-plentiful regions like the PACIFIC NORTHWEST and NEW ENGLAND generated the most hydroelectricity.

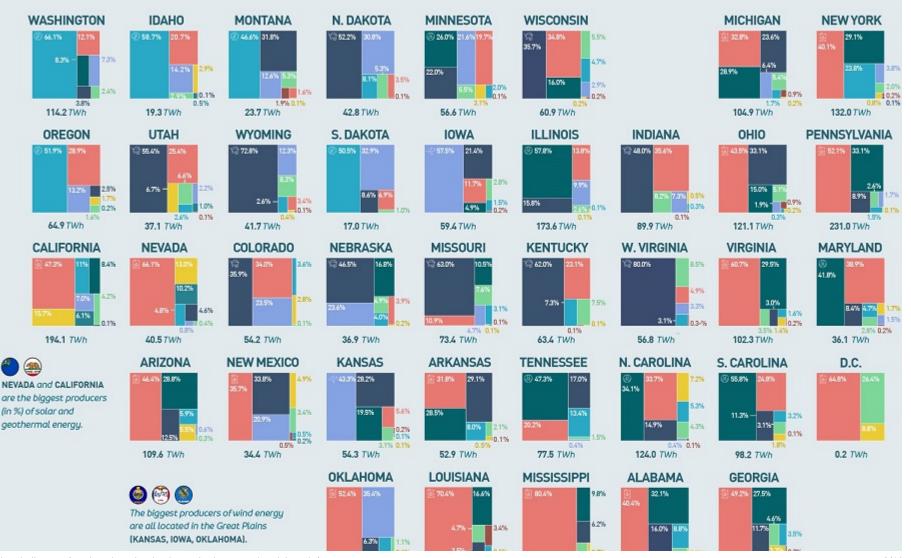


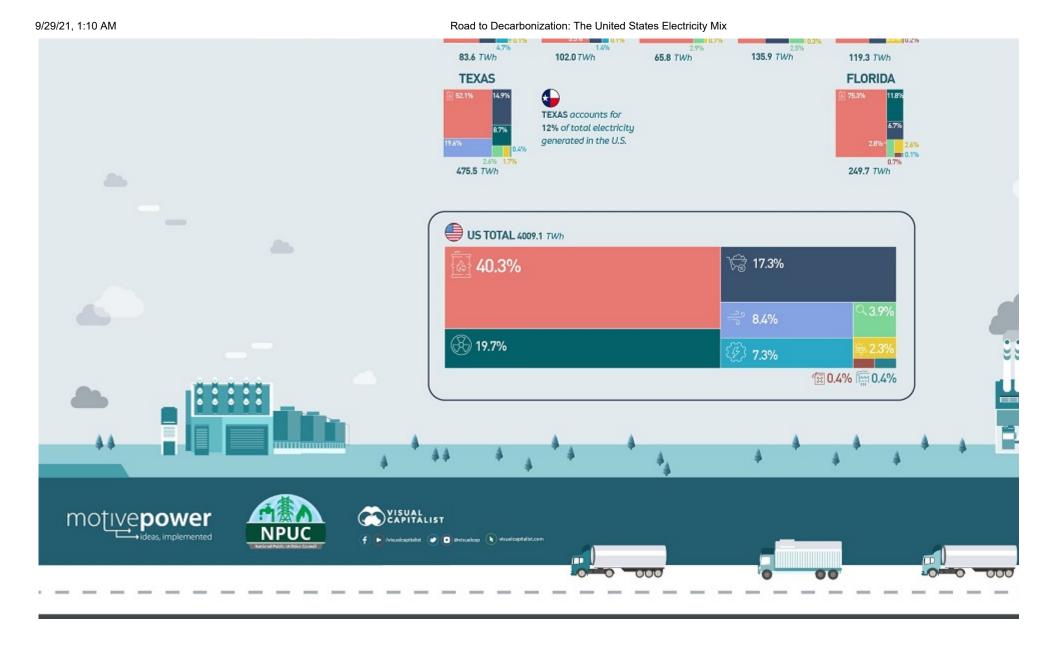






BIOMASS AND OTHER





Road to Decarbonization: The United States Electricity Mix

The U.S. response to climate change and decarbonization is ramping up, and putting a focus on the country's electricity mix.

As pressure has increased for near-term and immediate action after the UN's latest IPCC report on climate change, major economies are starting to make bolder pledges. For the United States, that includes a carbon pollution-free utilities sector by 2035.

But with 50 states and even more territories—each with different energy sources readily available and utilized—some parts of the U.S. are a lot closer to carbon-free electricity than others.

How does each state's electricity mix compare? This infographic from the National Public Utilities Council highlights the energy sources used for electricity in U.S. states during 2020, using data from the U.S. Energy Information Administration.

The U.S. Electricity Generation Mix By State

How does the United States generate electricity currently?

Over the course of 2020, the U.S. generated **4,009 TWh** of electricity, with the majority coming from fossil fuels. Natural gas (40.3%) was the biggest source of electricity for the country, accounting for more than nuclear (19.7%) and coal (17.3%) combined.

Including nuclear energy, non-fossil fuels made up **41.9%** of U.S. electricity generation in 2020. The biggest sources of renewable electricity in the U.S. were wind (8.4%) and hydro (7.3%).

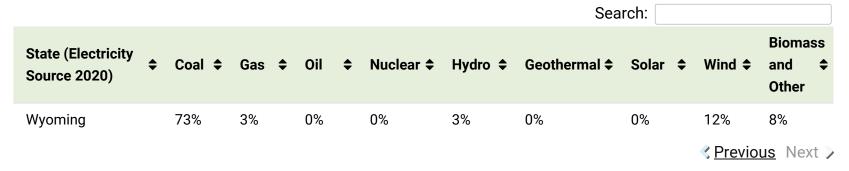
But on a state-by-state breakdown, we can see just how different the electricity mix is across the country (rounded to the nearest percentage).



Join the 250,0 receive our (

Your email a

Sign up



At a glance, regional availability of a fuel source and historical use is clear.

For example, coal is the most-used electricity source in **West Virginia**, **Kentucky**, and **Wyoming**, historical coal rich regions and economies.

On the flip side, the **Pacific Northwest** and **New England** generated the most hydroelectricity, and the biggest producers of wind energy were all located in the **Great Plains**. Even the biggest percentage producers of solar and geothermal energy, **California** and **Nevada**, have plenty of access to sunlight and geothermal activity.

The Changing Electricity Landscape

But for the U.S. to reach its ambitious carbon-free goal by 2035, the biggest impact will need to come from the biggest electricity producers.

That title currently goes to **Texas**, which generated **12% of total U.S. electricity in 2020**. Despite being the most populous state, California generated less than half Texas' output, and less than both **Florida** and **Pennsylvania**.

		Search:
State	Electricity Generated 2020 (TWh)	\$

State	Electricity Generated 2020 (TWh)	\$
D.C.	0.2	



So although it's positive that many states in the Pacific Northwest and New England have more plentiful non-fossil fuel electricity, their overall impact on the total U.S. picture is lessened.

Still, more and more states (and countries) are increasing their efforts and ambitions to decarbonize, and that progress makes it easier and more affordable over time. States that might struggle to attain carbon-free electricity, or where costs are too high, face less hurdles as technology improves and subsidies increase.

And with most major U.S. based utilities focusing on improving their ESG reporting and keeping up with decarbonization pledges of their own, the total electricity mix is expected to shift rapidly over the next decade.

National Public Utilities Council is the go-to resource for all things decarbonization in the utilities industry. Learn more.

Receive free Visual Capitalist content straight to your inbox.

Get your mind blown on a daily basis:

Your email address

Sign up for free

RELATED TOPICS: #Energy #Power #United States #Electricity #Map #US #Climate Change #Carbon #Fossil Fuels #Mapped #Decarbonization #Carbon Neutral #Paris Agreement #Utilities #Electricity Mix #By State

DON'T MISS

The Importance of FDI and Why It Must Be Revived

UP NEXT

How to Invest in the Booming Chip-Tech Industry

>

CLICK FOR COMMENTS

YOU MAY ALSO LIKE



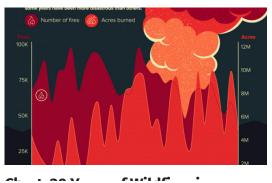
Ranked: The 50 Companies That Use the Highest Percentage of Green Energy



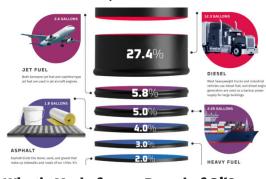
The Best Selling Vehicles in America, By State



This Simple Chart Reveals the Distribution Of Global Wealth







SPONSORED

7 ESG Essentials Investors Need to Know

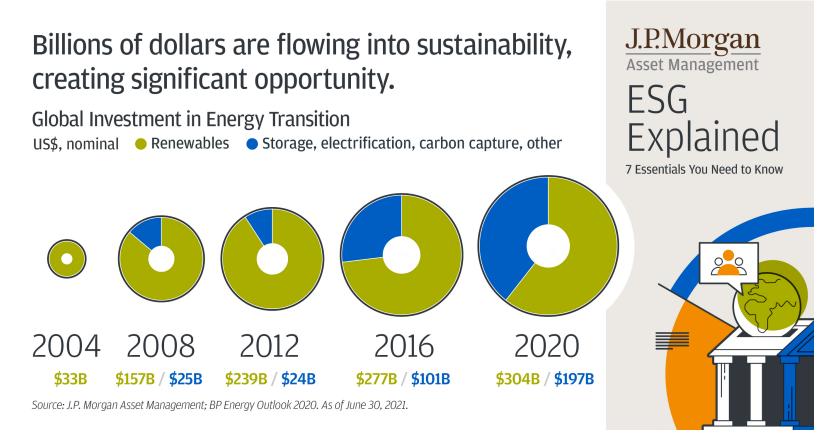
Want to invest in ESG, but not sure where to start? Begin with these 7 ESG essentials every investor should know.



Published 13 hours ago on September 28, 2021

Sponsored Content





7 ESG Essentials Investors Need to Know

From consumers to policy makers, many economic actors are backing sustainability—and creating a powerful portfolio opportunity for investors.

The use of environmental, social, and governance factors (altogether known as ESG) is increasingly informing investment decisions. But although ESG investing has grown in prominence in a few short years, there's a disconnect:

- 69% of retail investors are interested in ESG, yet...
- Only 10% actually invest in products that incorporate ESG factors

To properly capitalize on this trend, it's important to first fully understand it.

CONTINUE READING

SPONSORED

Antimicrobial Copper: The Germfighting Metal

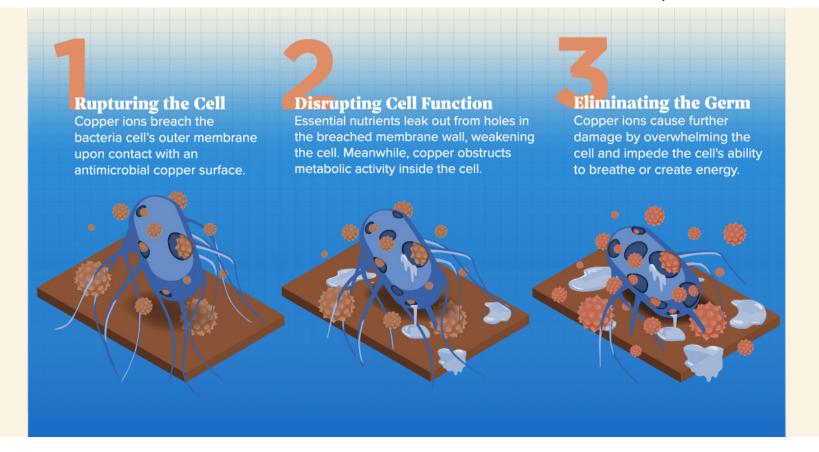
Antimicrobial copper kills over 99.9% of certain bacteria within two hours of exposure. How does copper kill germs?



Published 1 day ago on September 27, 2021

By Sponsored Content





Antimicrobial Copper: The Germ-fighting Metal

Copper has a wide range of uses in electronics, infrastructure, and energy technologies. The red metal is virtually everywhere, from the wires in our devices to the buildings we live in.

However, copper's medicinal applications, which go back thousands of years, aren't as widespread in the modern world.

In this infographic from our sponsor <u>Trilogy Metals</u>, we explore copper's ability to fight bacteria and its expanding role in modern healthcare.

Dr. Copper: How Copper Fights Germs

onner is naturally antimicrohial, and ancient civilizations recognized this property

CONTINUE READING

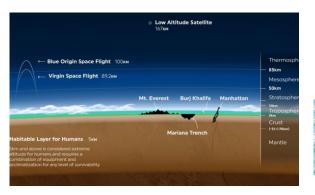
POPULAR



GREEN / 3 weeks ago

MISC / 4 weeks ago

The World's 25 Largest Lakes, Side by Side



20% Ceneratory operators & particular trainers

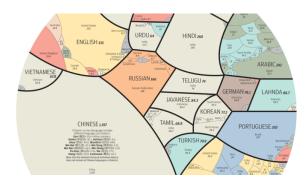
20% Computer numerically considered operators & particular trainers

20% Computer numerically considered operators & particular trainers

20% Computer numerically considered operators & particular trainers & particular & particular trainers & particular tr

ECONOMY / 2 weeks ago

The 20 Fastest Growing Jobs in the Next Decade



MISC / 2 weeks ago

All World Languages in One Visualization



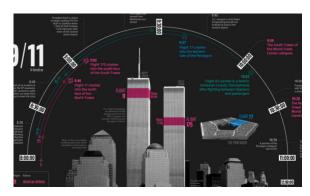
The Bigges

By country, 2021

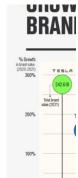
Mapping Market C



HEALTHCARE / 2 weeks ago



MISC / 3 weeks ago



DATASTREA

Razor Thin: A New Perspective on Earth's Atmosphere

Visualizing the World's Biggest Pharmaceutical Companies

9/11 Timeline: Three Hours That Changed Everything

Ranked: 1 Brands in

