



FEBRUARY 2024

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FIRST RESPONDER SAFETY TRAINING

We would like to extend a big Thank You to all the First Responders who joined us in December and January for safety training. We're thankful for all the First Responders in our communities, and we want to be sure they are knowledgeable about safe procedures around downed power lines and other electrical hazards, in order to ensure their own safety as well as the public. We saw over 70 representatives from local fire departments, emergency medical services, and law enforcement. We appreciate all our area First Responders for their commitment to keeping our communities a safe place to live and work!



WINTER TIP FOR IRRIGATION SERVICES

If you have a service used for irrigation only (or any other seasonal use), be sure your disconnect switch is in the OFF position for the winter months. If the disconnect is left in the ON position, a small amount of usage could occur in charging equipment such as capacitors in your pump panel, even if the motor is not in use. In order to avoid paying for electricity you aren't using, be sure to check those switches!



THE ELECTRIC GRID EXPLAINED IN 10 CHARTS

This month we wanted to share an article we received that has great information explaining the complexities of the electric grid. Below is a portion of the article ***The Electric Grid Explained In 10 Charts*** by Robert Bryce on Jan 17, 2024. To see the full article, please visit <https://robertbryce.substack.com/p/the-electric-grid-explained-in-10>.

So, what is the electric grid? I like to think of it as the Mother Network. It's the energy system that fuels our society's most-critical networks, from hospitals and traffic lights to water systems and the Internet. Meredith Angwin, the author of the landmark 2020 book *Shorting the Grid: The Hidden Fragility of Our Electric Grid*, has a good definition. She recently told me the

grid is "everything that connects us to electricity." In these charts, I ignore what Angwin calls the "policy grid" and focus mainly on the physical grid — the sprawling network that allows electricity worth \$500 billion per year to be generated and delivered to customers from Maine to Hawaii and from Florida to Alaska.

These 10 charts are not the definitive explanation of the electric grid. Instead, they are an effort to help readers understand the thingness of the thing we call the electric grid.

Perhaps the most amazing part of the U.S. electric grid is that somehow — despite its massive size, competing policies, and myriad of different owners — it all works.

The Grid Is Our Biggest, Most Important, & Most Complex Energy Network.



500 kV switchyard, Grand Coulee Dam

Source: https://en.wikipedia.org/wiki/Electrical_substation#/media/File:Grand_Coulee_Dam_electrical_switchyard.jpg

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**The following names have been drawn for a \$25 bill credit.
Contact Wyrulec Company at 877-WYRULEC to claim your credit!**

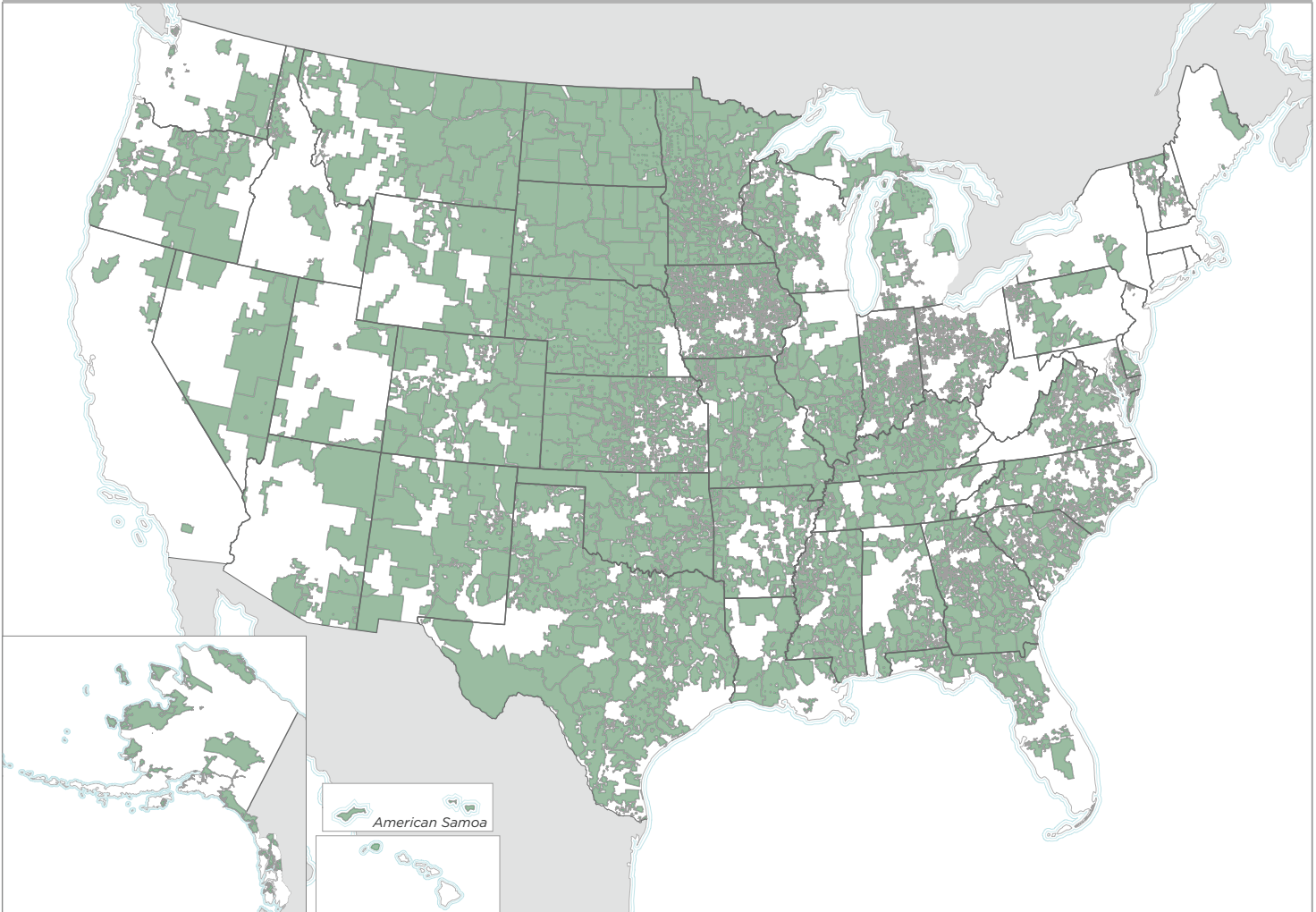
Larry Pyle
Brian Keithly

Lianne Read
Judi Lyles

Dustin Ludwig



America's Electric Cooperatives

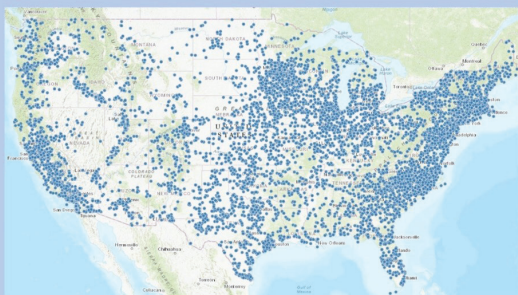


REV: February 2020

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(Wyrulec addition)

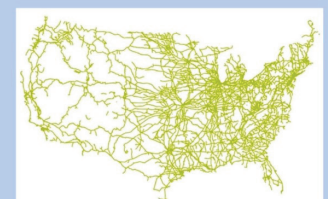
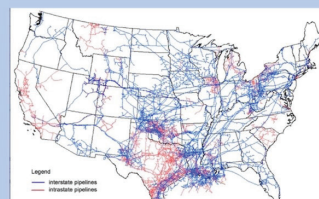
12,538 Utility-Scale Power Plants



Source: [https://www.eia.gov/tools/batchquery/batchquery.cfm?_lang=en&_topic=electricity&_unit=1000&_start=1990&_end=2019&_type=1&_fuel=1&_plant=1](https://www.eia.gov/tools/batchquery/batchquery.cfm?_lang=en&_topic=electricity&_unit=1000&_start=1990&_end=2019&_type=1&_fuel=1&_plant=1&_unit=1000&_start=1990&_end=2019&_type=1&_fuel=1&_plant=1)

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Fueled By Hydrocarbons Delivered By Pipelines And Railroads, With

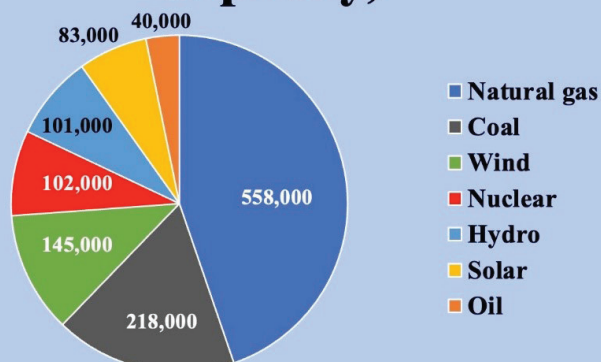


Source: https://www.eia.gov/tools/batchquery/batchquery.cfm?_lang=en&_topic=electricity&_unit=1000&_start=1990&_end=2019&_type=1&_fuel=1&_plant=1

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continued . . . THE ELECTRIC GRID EXPLAINED IN 10 CHARTS

A Total of 1.25 TW of Generation Capacity,

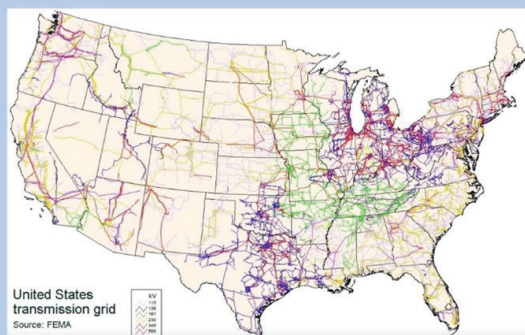


Generation Capacity, By Fuel, in Megawatts, 2023

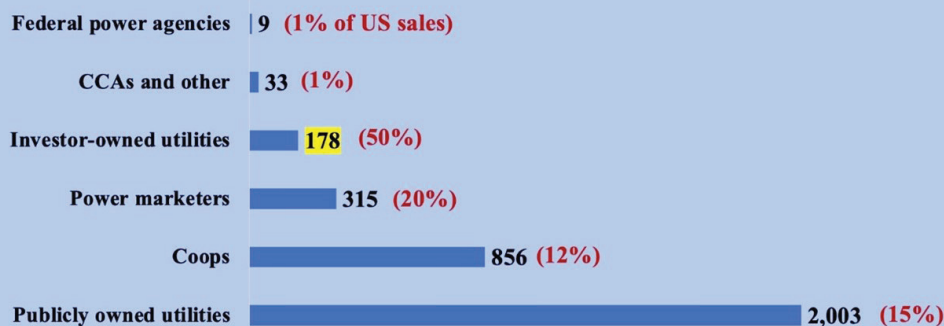
Source: APPA, https://www.publicpower.org/system/files/documents/Americas_Electricity_Generating_Capacity_2023_Update.pdf

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Delivering Juice Via 6.1 Million Miles Of Wires, Poles, And Transformers,



And It's All Owned And Managed By 3,394 Electric Providers



Source: APPA, https://www.publicpower.org/system/files/documents/2021_Public-Power-Statistical-Report.pdf

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