



Line Items

The Official
Newsletter
Of Excelsior EMC

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DID YOU KNOW?

Nuclear energy provides nearly one-fifth of U.S. electricity.



Fossil fuels are the largest sources of energy for electricity generation



The grid is designed so that any individual generator or transmission line can fail, and the grid stays online seamlessly.



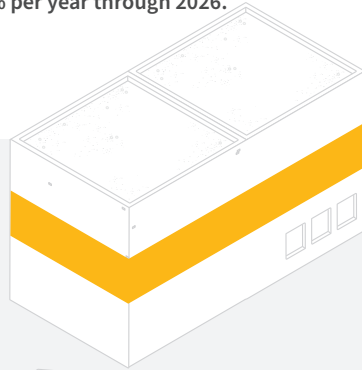
The U.S. grid is very reliable, operating at 99.95% reliability.

Soaring Demand

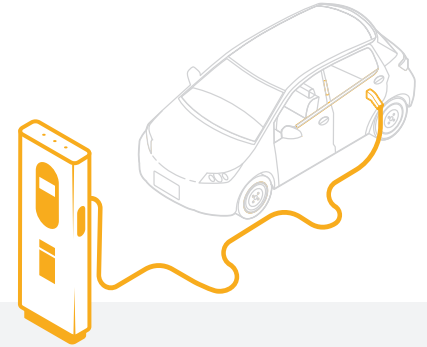
After decades of flat or declining electricity demand, the United States is in the midst of a boom in power use. Recent data shows that power consumption nationwide is set to increase by at least 38 gigawatts between now and 2028. This trend would ordinarily be great news for the power industry. However, government policies aimed at shutting down fossil-fuel-based generation and years-long delays in permitting and siting for new transmission lines are turning this power boom into a capacity crisis. Here are the primary demand drivers:

Electrification

Electric vehicle adoption, electrification of home heating and industrial electrification are expected to increase overall U.S. energy consumption by 1% per year through 2026.



↑
65%



Data Centers

Driven by explosions in artificial intelligence, cryptocurrency and cloud computing, total U.S. data center load is projected to increase by 65% by 2050.

Economic Growth

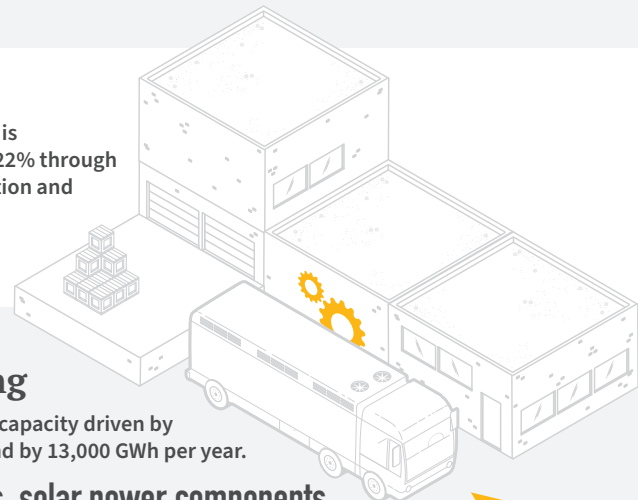
Residential power consumption is expected to increase by 14% to 22% through 2050 due to increases in population and steady economic growth.



Manufacturing Growth/Onshoring

New, expanding and “onshored/reshored” manufacturing capacity driven by federal incentives is expected to increase industrial demand by 13,000 GWh per year.

Key products: EVs, batteries, semiconductors, solar power components



Total Demand

Analysts predicted in 2023 that U.S. peak demand will increase by at least 38 GW over the next five years, nearly double the growth rate predicted in 2022.

The U.S. peak demand in 2023 was 741.8 GW.

2027

Forecast
835 GW

Forecast
852 GW

2028

Sources: NRECA, EPRI, Grid Strategies, U.S. EIA, International Energy Agency; Design: Jerry Mosemak



Line Items

Joseph Jones
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When your power goes off, don't stay in the dark longer than you have to. To restore your power as quickly as possible, we need your correct phone number. Your phone number is the quickest way for us to locate your home or business when you call to report an outage.

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Between the Lines

by
Greg Proctor
President/CEO

Back to School

Excelsior EMC is continually learning to improve service for members.

It's a new school year and kids of all ages are getting ready for a fresh year of learning! From kindergarten through college, students attend school to gain knowledge about a broad variety of subjects and learn new skills that will prepare them for the future. In a similar vein, Excelsior EMC is continually learning in order to advance technology that improves electric service, reliability, and safety and in turn, enhances the quality of life for the members we serve in our local communities.

Excelsior EMC keeps abreast of industry trends because the energy sector is rapidly changing. Innovations in technology and energy types are fueling demand for more options. On the consumer front, people are looking for more ways to manage their energy use with smart technologies.

We're working to help sift through the options for our members in ways that benefit the greater community. At the same time, we never lose sight of the top priority--providing safe, reliable and affordable electricity.

Using the latest technology improves operational efficiency. For example, advanced metering infrastructure (AMI) is the integrated system of meters, communications networks, and data management systems that enables two-way communications between utilities and consumers. This system collects energy consumption data and transfers it to our office. Because this information is collected remotely, it enhances our system's efficiency, helps costs, and improves work processes.

In an outage, AMI helps distinguish between events that impact a single home or multiple outages. This is critical because resolving either issue is a very different process. However, one of the biggest benefits of improved technologies, especially for outages caused by extreme weather is pinpointing the outage location, which helps to reduce risk for crews out on the road during severe weather events.

In addition to providing essential information during major outages, Excelsior EMC analyzes AMI data for anomalies including outages, damaged meters, and energy theft. Detecting these problems early helps our cooperative save money and improve reliability for the whole community.

Whether it's examining various energy options or exploring how emerging technologies can better serve our members, for Excelsior EMC, our "school year" is never over. We will continue to learn from our members about their priorities for the future, and we will continue to study and research the issues so that we can better serve you, now and in the future.



Every Member Counts

Power Pole Clutter

Flyers, satellite dishes, posters, basketball hoops, decorative lights, even hunting stands. You name it, someone has tried to staple, nail or tie it to a power pole. Here's a quick look at the dangers and pitfalls associated with unauthorized pole attachments.

Illegal

Many state and local laws and the National Electrical Safety Code prohibit any unauthorized items on poles.



Pole Damage

Even small holes can allow moisture and insects past the pole sealant, which can shorten the life of the pole or weaken it and cause it to fall in a storm.



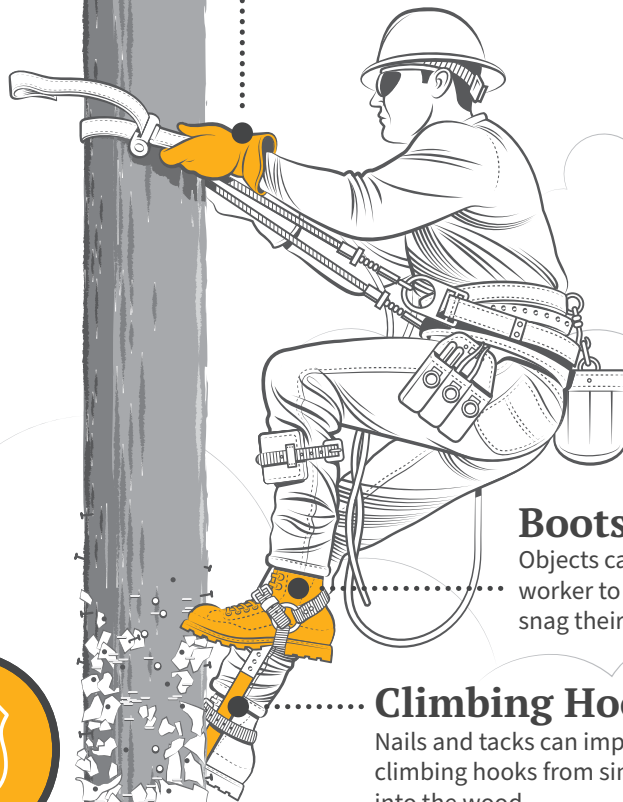
Hinders Repairs

Posters and flyers can hide identifying markers on poles and slow repair work.



Gloves

Staples, tacks and nails can puncture a lineworker's insulated rubber gloves and expose them to electric shock.



Boots

Objects can cause a worker to fall if they snag their boots.

Climbing Hooks

Nails and tacks can impede climbing hooks from sinking into the wood.



Dangerous

A person who gets too close to energized lines while attaching an object can be electrocuted.



Distraction

Some materials posted on poles, like mirrors or holiday decorations, can be a distraction to drivers.

TIPS TO BEAT THE SUMMER PEAK

When we all work together to lower energy use during peak hours, we can lock in lower electricity rates, so everyone saves. Here are a few simple ways to save during peak summer hours.
(3:00 PM- 8:00 PM)

- 1** Raise the thermostat a few degrees.
- 2** Use ceiling fans (in occupied rooms) to feel cooler.
- 3** Avoid using major appliances.
- 4** Close drapes and blinds to block heat from the sun.
- 5** Turn off and unplug non-essential electronics and lights.



HOME ENERGY SURVEY



To manage our future energy needs, Excelsior Electric Membership Cooperative is conducting a residential home energy survey. We sponsor this survey to get an up-to-date picture of how our members use energy in their homes. The survey contains questions on the type of appliances in your home, including heating, cooling, water heating, lighting, and other home energy uses. Your participation is essential as only a limited number of members will be selected. In the next few months, you may receive an email asking you to participate. Please consider completing the survey. Thank you in advance for your participation.

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