



POWERGRAM

A monthly newsletter for OCEC Members

BALANCING ELECTRICITY SUPPLY AND DEMAND

Electricity is essential for nearly every aspect of daily life—so essential that we rarely think about how it's produced and delivered to our homes. You might be surprised to learn that behind the scenes, a network of experts is working daily (and even by the minute) to anticipate how much electricity you need before you even use it.

We're all connected to the electric grid, so ensuring the right amount of electricity for all involves a complex process of forecasting energy demand, planning for capacity and securing enough supply to meet Americans' needs.

Powerful sources

First, electricity must be generated at a power plant using either traditional sources, such as coal, natural gas or nuclear energy, or from renewable sources, such as solar, wind or hydropower.

At OCEC, we work closely with Tri-State Generation & Transmission, our local wholesale power partner, to secure enough electricity for our communities, using a diverse mix of energy sources to generate the power we deliver to your home or business. By maintaining a diverse energy mix—coal, natural gas, wind and hydropower—OCEC has options to ensure reliable power at a competitive cost.

On a larger scale, across the country, electricity supply and demand are managed through a market that includes long-term planning agreements, where electricity is bought and sold just like other common goods and services. Because OCEC works with our wholesale power partner, which is also a cooperative, we are able to pool resources and expertise to deliver affordable power to our local communities.

Electricity supply changes throughout the day because demand fluctuates based on consumers' needs. For example, OCEC knows that we need to ensure more electricity in the mornings when you're starting your day, and in the evenings when you're cooking dinner, running appliances and watching TV. Demand also increases when weather patterns change, such as extremely warm or cold temperatures.

Managing supply and demand across the grid

Across the country, other electric utilities are managing the same task of balancing supply and demand, which is why we have a larger network of key players in place to ensure enough power is delivered across the grid.

In most cases, the amount of electricity generated and how much is sent to specific areas are coordinated and monitored by regional transmission organizations (RTOs) and independent system operators (ISOs). In other areas, individual electric utilities perform these tasks.

RTOs, ISOs and electric utilities act as air traffic controllers for the electric grid. They forecast when you, your neighbors and communities across a large region will need more power. These organizations take measured steps to ensure there's enough supply to meet demand.

Looking ahead

As the energy sector undergoes rapid change, it's important for all consumers to understand the basics of electricity supply and demand.

Electricity use in the U.S. is expected to rise to record highs this year and next, with the demand for electricity expected to at least double by 2050. At the same time, energy policies are pushing the early retirement of always-available generation sources, which will undoubtedly compromise reliable electricity.

OCEC remains committed to providing affordable, reliable energy to the members we serve. That's why we are preparing now for increased demand and other challenges that could compromise our local electric supply.

Managing the balancing act of electricity supply and demand is a complex job, which is why we have a network of utilities, power plant operators and energy traffic managers in place to direct the electricity we need and keep the electric grid balanced.



JANUARY CALENDAR PHOTO
submitted by Bill Denney

**JANUARY
2025**

**CLOUDCROFT
575-682-2521**

**ALTO
575-336-4550**

**CARRIZOZO
575-648-2352**

**LOBBY HOURS
8 AM - 4 PM
MONDAY - FRIDAY**

**TO REPORT AN
OUTAGE, CALL
1-800-548-4660**

**FOR BALANCE
INFORMATION OR TO
PAY YOUR BILL, CALL
1-855-940-3957**

WWW.OCEC-INC.COM

ENERGY EFFICIENCY TIP

Taking steps to help your home heating system run more efficiently can reduce energy use and lower your winter bills. Check to see if any air vents around your home are blocked by furniture, curtains or other items. Obstructed vents force your heating system to work harder than necessary and can increase pressure in the ductwork, causing cracks and leaks to form. If necessary, consider purchasing a vent extender, which can be placed over a vent to redirect air flow from underneath furniture or other obstructions.

Source: energy.gov

DEADLINE

Applications for the Electric Cooperative Youth Tour are due by **Thursday, January 16**. Complete and return your application today!

Please encourage students you know to apply for this unique opportunity. Applications may be picked up at your local OCEC office, from your school guidance counselor or at www.ocec-inc.com.



APPLY NOW FOR 2024 SCHOLARSHIPS

The Otero County Electric Education Foundation began awarding scholarships to area students in 1989. Since its inception, more than \$1.9 million has been awarded to students attending a university, college, or technical school.

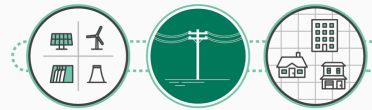
The scholarship is \$1,500 per semester for the first two semesters. It increases to \$2,000 per semester for an additional six semesters if the required GPA is maintained and the student continues enrollment.

To be eligible, the student must be an active member receiving electric service from OCEC. Applications are available in OCEC offices, from your school guidance counselor, or at www.ocec-inc.com.



A Balancing Act: ELECTRICITY SUPPLY AND DEMAND

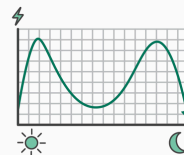
Behind the scenes, a network of people and facilities work together to ensure you have electricity when you flip the switch.



Electricity is generated at a power plant, then sent across the grid to homes, schools and businesses.

The amount of electricity generated and how much is sent to where it's needed are typically coordinated and monitored by regional grid operators that essentially act as energy traffic managers.

Regional Grid Operators



As electricity demand varies throughout the day, grid operators, power plant operators and electric utilities work to forecast, plan and purchase enough electricity for everyone.

Ensuring communities have the exact amount of electricity they need is a challenging task, but behind the scenes, a network of industry experts make it happen every day.



Factors that Impact Electricity Supply and Demand



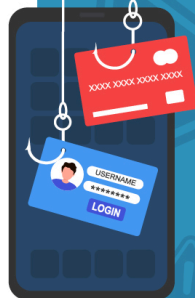
- Demand Surges
- Extreme Temperatures
- Infrastructure Costs and Availability
- Supply Chain Challenges
- Fuel Costs
- Federal and State Regulations

TIPS TO AVOID ENERGY SCAMS



Never make a utility bill payment to anyone calling you on the phone, coming to your door (unless that is a verified bill payment method used by your utility company), texting you or emailing you. Always call your utility company at the number provided on your bill or on the utility's website if you have a question about payment or billing information. Know your utility bill payment options—online, by phone, automatic bank draft, mail or in person.

Source: *Utilities United Against Scams*



TO MAKE A PAYMENT BY PHONE OR OBTAIN YOUR BALANCE, PLEASE CALL

1-855-940-3957