AUGUST 2021

A Newsletter From

powerlines

Coweta-Fayette EMC

True Natural Gas

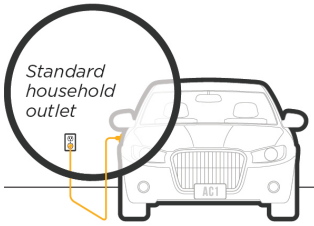
RELYCO Security Resources

HOME CHARGING OPTIONS FOR ELECTRIC VEHICLES

Electric vehicle (EV) owners have multiple options for charging their vehicle at home. There are three common EV charging levels: Level One, Level Two and DC Fast Charge.

Electric Vehicle Charging Levels

AC Level One



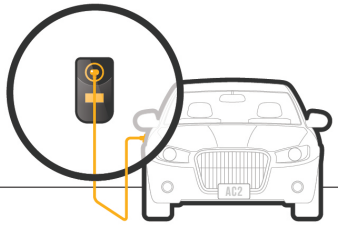
VOLTAGE:
120V 1-Phase AC

AMPS:
12-16 Amps

CHARGING LOADS:
1.4 to 1.9 KW

VEHICLE CHARGE TIME:
3-5 Miles per Hour

AC Level Two



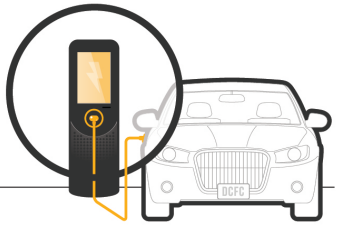
VOLTAGE:
208V or 240V 1-Phase AC

AMPS:
12-80 Amps (typ. 32 Amps)

CHARGING LOADS:
2.5 to 19.2 kW (typ. 6.6kW)

VEHICLE CHARGE TIME:
10-20 Miles per Hour
20+ for some EV models

DC Fast Charge



VOLTAGE:
208V or 480V 3-Phase AC

AMPS:
<100 Amps

CHARGING LOADS:
50-350 kW

VEHICLE CHARGE TIME:
60-80 Miles in 20 Minutes

Sources: Advanced Energy and EPA

Level One Charging

Level One is the most basic charging level. If you choose this option, your EV will typically include an adapter that plugs into a typical 120-volt outlet. This is the easiest and cheapest charging solution, but it will take much longer to charge your EV.

Level Two Charging

Level Two is about three to five times faster than Level One, but this level of charging often requires separate purchases and installation. The EV is plugged into a 240-volt outlet, which is used for larger appliances. CFEMC recommends a NEMA 14-50 outlet because it's UL approved for EV charging.

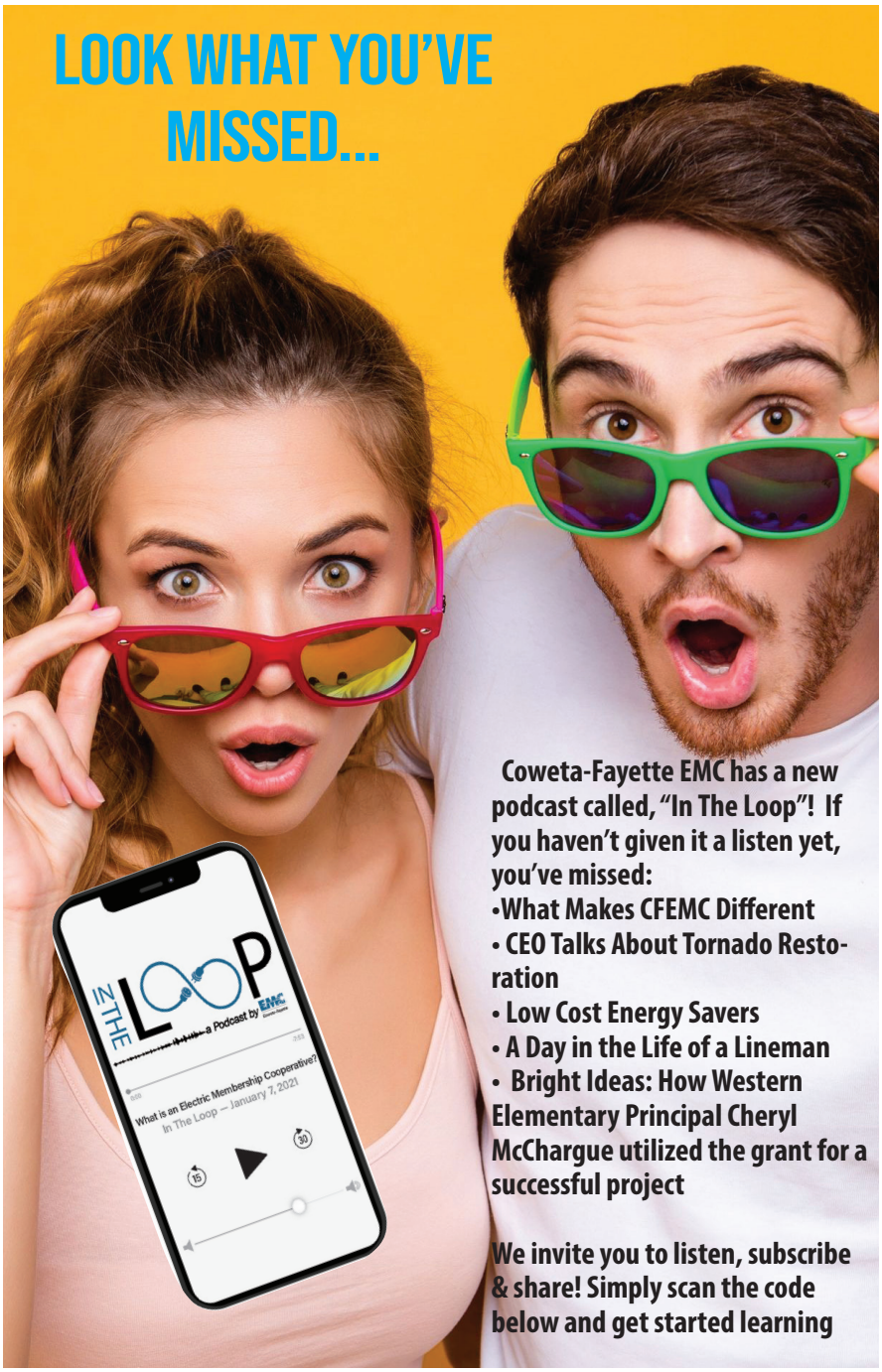
Most homes do not include a 240-volt outlet in garages, so the outlet must be installed by a licensed professional. You typically see Level Two charging stations at shopping malls, office buildings and multi-family community spaces.

DC Fast Charging

DC Fast Charge stations are typically seen near high-traffic public areas, like gas stations, rather than in homes. This is the fastest charging level, with the ability to charge an EV at 80% in under 30 minutes. As EVs continue to become more popular, you can expect to see more DC Fast Charge stations throughout Georgia.

"If you plan to charge your EV at home, please contact us at 770-502-0226," Jimmy Adams, VP of Energy Services said. "We offer time of use rates that can reduce your cost of charging and we can help ensure your home is prepared for the additional energy consumption, and you can take advantage of our incentives for EV charging and vehicles."

You can also learn more about our EV programs by visiting www.utility.org/ev/



The President's Message

Chris Stephens
CEO

As I've noted before in my past columns, the energy industry is undergoing a dramatic transformation as consumer demand for more renewable energy sources grows, and innovation and technology continue to advance exponentially. You're likely witnessing this energy evolution first-hand.

As you've been out driving, you may have noticed the field of solar panels at our Michael C. Whiteside Solar Plant along with an increase in solar panels on your neighbors' roofs. Maybe you've heard major vehicle companies announcing plans to offer more electric vehicles at more affordable prices.

Consumer interest in renewable energy is growing.

At Coweta-Fayette EMC, our primary function is to provide reliable and affordable energy to our members. Because we are a co-op, our mission is also to enrich the lives of our members and to serve the long-term interests of our community. We feel we're doing both by investing in renewable energy sources.

Green energy is certainly not new. Solar, wind and hydro power sources have been around for decades. However, the recent innovations and advances in renewable technology have led to decreases in cost, making it more feasible and accessible.

Coweta-Fayette EMC has been involved with renewables for over 20 years. As a founding member of Green Power EMC, In recent years, we've been able to adjust our fuel mix to utilizing more renewables.

While renewable energy use is increasing, we will still depend on traditional forms of energy to keep power flowing reliably to your home. After all, solar and wind energy are referred to as "intermittent" power since the sun does not always shine and the wind does not always blow. This fact coupled with the growing demand for renewables creates its own challenges. That's why there is real value in maintaining a balanced mixture of fuel types to ensure reliability and resiliency while meeting the growing demand for electricity.

As the energy industry continues to evolve, Coweta-Fayette EMC is striving to take advantage of technological advances and market opportunities as they become available. This means CFEMC can leverage the flexibility of the grid to offer a wider range of renewable power selections as we continue to bring safe, reliable and affordable power to our community.

Albert Einstein once observed that "Life is like riding a bicycle. To keep your balance, you must keep moving."

To meet the growing demand for renewable energy and ensure the reliability of our power supply, CFEMC must constantly make operational adjustments as we strive for balance and a brighter future for our members.

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