

ARKANSAS ENERGY & ENVIRONMENT

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BIOFUEL ENGINES

TRACING THEIR ORIGINS AND POTENTIAL IN MODERN AGRICULTURE

Biofuel engines have a history dating back to Rudolf Diesel, who designed an engine in the 1890s to run on vegetable oil. Though modern engines use petroleum diesel, there is growing interest in renewable energy, leading to increased production of biodiesel in the US. Many tractor engines today can efficiently run on B20, a blend of 20% biodiesel and 80% petro diesel. It's important to check the owner's manual and follow specific standards like ASTM D6751 or EN 14214. B20 emits lower harmful emissions, but more research is needed on nitrogen oxides.

New Holland has supported B20 use since 2006, and many engines are now compatible with B100. B5 has a shelf life of up to six months, while blends from B5 to B20 should be handled carefully to avoid water contamination, with a shelf life of up to three months. Using biofuel is a complex decision, but many agribusinesses have embraced it with positive results. Understanding the manufacturer's recommendations and available biofuel options in your region is crucial.



DRIVE ELECTRIC NWA

A HUB FOR ELECTRIC VEHICLE RESOURCES ON SEPTEMBER 30

Drive Electric NWA will be held at Pinnacle Hills Promenade in Rogers on September 30. This prominent event will promote electric vehicles during National Drive Electric Week. The event runs from 11 a.m. to 4 p.m., featuring electric car and e-bike resources. Attendees can win a \$2,500 credit for electric vehicle-related purchases. The event offers learning opportunities, food trucks, face painting, and music.

The event highlights the advantages of electric transportation and provides a chance to explore EV options. "Drive Electric NWA offers numerous resources for those curious about how electricity is changing transportation in Northwest Arkansas," said Rob Smith of the Northwest Arkansas Council, the event's lead organizer. "Attendees can learn from people who own and sell electric cars and e-bikes, find out how much less expensive electricity is compared to gasoline, and explore how to embrace transportation powered by plugging in instead of fueling up."

More details at: <https://nwacouncil.org/drive-electric>

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