

ARKANSAS ENERGY & ENVIRONMENT

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HYDROGEN

THE OTHER ZERO EMISSION FUEL

Electric Vehicles (EVs) have been in the spotlight as the United States invests billions in federal funding to build out a national electric vehicle charging network. Hydrogen Fuel Cell Vehicles (FCVs) may not be far behind as the U.S. directs comparable funding for building a clean hydrogen infrastructure to further support energy independence and reduce emissions from all sectors.

FCVs are similar to EVs in that they use an electric motor instead of a combustion engine. However, FCVs generate their electricity onboard rather than needing an external charging source. Both EVs and FCVs are considered Zero Emissions Vehicles (ZEV) with FCVs only creating water vapor. FCVs can be refueled at a hydrogen station in much the same way a traditional combustion engine vehicle would be at a gas station. Recognizing this, federal funding will encourage not only the development of hydrogen fueling infrastructure, but also innovation in the sustainable production of hydrogen.

Ninety-five percent of U.S. domestic hydrogen production uses hydrocarbon fuels like natural gas, diesel, or gasified biomass, which adds to harmful emissions. The new federal funding aims to boost capacity in clean hydrogen production, using renewables which will reduce or eliminate harmful emissions in hydrogen production.

To address both infrastructure and sustainable supply, the Infrastructure Investment and Jobs Act (IIJA) allocates \$8 billion over four years to create four regional clean hydrogen hubs. The hubs will demonstrate the production, processing, delivery, storage, and end-use of hydrogen as an alternative to traditional fossil fuels. The IIJA also allocates funding for hydrogen fueling stations along designated alternative fuel corridors to encourage the adoption of FCVs and reduce reliance on fossil fuels and the emissions caused by their use in combustion engine vehicles.

AR, LA & OK ANNOUNCE HYDROGEN PARTNERSHIP

Arkansas Governor Asa Hutchinson, Louisiana Governor John Bel Edwards, and Oklahoma Governor Kevin Stitt have entered into a bipartisan three-state partnership to establish a regional hub for development, production, and use of clean hydrogen as fuel and manufacturing feedstock. The three states intend to compete as a unit for funding established in the Infrastructure, Investment, and Jobs Act (IIJA) of 2021, in which the U.S. Department of Energy (DOE) is directed to seek out and select regional clean hydrogen hubs to fund. Each governor appointed the following individuals from their respective state to serve as designee to the partnership: Arkansas Secretary of Energy & Environment Becky W. Keogh, Louisiana Department of Natural Resources Secretary Thomas Harris, and Oklahoma Secretary of Energy & Environment Kenneth Wagner.

NEWS & EVENTS

2022 EV MODEL REVIEW FROM ALABAMA CLEAN FUELS WEBINAR APRIL 5, 2022

For more information, visit: www.eventbrite.com/e/is-there-an-electric-vehicle-for-me-2022-ev-model-review-tickets-261631074587

EARTH DAY EVENTS: ARKANSAS DRIVE ELECTRIC WEEK SHOWCASES



LONOKE | APRIL 2, 2022

For more information, visit: <https://driveelectricearthday.org/event?eventid=3135>

LITTLE ROCK | APRIL 23, 2022

For more information, visit: <https://driveelectricearthday.org/event?eventid=3052>

MEMPHIS | APRIL 23, 2022

For more information, visit: <https://driveelectricearthday.org/event?eventid=3122>