ZERØ EMISSIONS. ZERO COMPROMISE.
FUEL CELL VEHICLES ARE THE ONLY ZERO-EMISSION VEHICLE AVAILABLE NOW, OR FOR THE NEAR-TERM FUTURE, THAT TOTALLY REPLICATES TODAY’S DRIVER EXPERIENCE OF TRAVELING 300 – 400 MILES ON A TANK OF HYDROGEN FUEL AND REFUELING IN JUST THREE TO FIVE MINUTES.
0 Zero tailpipe emissions

3-5 Three to five minutes to refuel

300 to 400 Average driving range of 300-400 miles

300-400 Zero tailpipe emissions

Zero tailpipe emissions

Average driving range of 300-400 miles
Fuel cell vehicles, or FCVs, present a sustainable alternative to today’s gasoline-powered cars. With zero emissions from the tailpipe, fast fill up, and long range travel, FCVs provide a choice that is clean without compromise.
Now is the time to follow California’s lead and support FCVs as alternative energy vehicles by enabling the additional development of hydrogen fueling stations. With refueling times of just three to five minutes and range of 300 – 400 miles, FCVs are a proven option to take zero-emissions further.
ZERO EMISSIONS.
FCVs can play a role in improving the environmental impact vehicles have on our roads.

FCVs use hydrogen to provide emission-free driving in that they only emit water from the tailpipe, greatly reducing greenhouse gas carbon emissions compared to gasoline vehicles.

Efforts are underway to expand renewable hydrogen generation, and

California already has a 33% renewable hydrogen mandate for vehicle fueling.

FCVs can significantly improve air quality and cut carbon emissions to meet state and national climate goals.
ZERO COMPROMISE.
FCVs are convenient because they operate similarly to standard automobiles due to an extended drive range of 300-400 miles per tank and a fill up time of just three to five minutes. FCVs are extremely reliable and require little maintenance, while also offering the quiet operation and high torque of battery electric cars without some of their performance restrictions. 

FCVs have the benefits of standard vehicles, and then some.
The Challenge

1/5th Cars and trucks account for nearly one-fifth of all US carbon emissions.

24lbs of CO₂ 24lbs of carbon dioxide and other global-warming gases are emitted for every gallon of gasoline.
**FCVs: THE SOLUTION**

FCVs are powered by an electric motor, just like other electric vehicles. But instead of using batteries that can have limited range and take hours to charge, FCVs contain a fuel cell that converts hydrogen into electricity.

That gives FCVs the environmental benefits of an electric car, along with range and refueling times comparable to conventional gasoline powered vehicles. And the only emission is water.
UNYIELDING SAFETY STANDARDS.
FCVs and hydrogen fuel are as safe, if not safer, than conventional gasoline vehicles.

FCVs meet the National Highway Safety Transportation Administration’s (NHTSA) strictest safety and quality standards.

FCV manufacturers have developed and tested carbon-fiber hydrogen tanks, which have withstood significant crash, fire and ballistic testing.

Hydrogen has been safely produced, stored, transported, and used in the American industrial sector for more than 50 years.
INFRASTRUCTURE INVESTMENT IMPERATIVE.
Fuel cell vehicles and hydrogen fuel will bring innovation and ingenuity that could foster a new clean economy and economic growth—especially for early-adopter communities.

Building the infrastructure that supports bringing these cars to market—such as constructing hydrogen fueling stations, as well as the supply chain of producing, delivering, and storing hydrogen—will spur a first mover advantage leading to new jobs across the hydrogen industry and strong, vibrant communities committed to the environment.

FCVs will be an important part of the transportation system in the clean, smart cities of the future.
DRIVING ENERGY INDEPENDENCE.
FCVs are an innovative technology that will help move our transportation sector away from a continued reliance on foreign oil by using domestically-produced hydrogen.

It is important that we look to expand the variety of solutions we have, including FCVs, to increase our energy independence.

Cutting U.S. oil use and curbing climate change requires a significant shift toward clean transportation technologies. FCVs can help reduce oil consumption and global warming emissions compared with their gasoline and diesel counterparts.

Almost all hydrogen is produced domestically from our large domestic reserves of natural gas. However, significant efforts are underway to expand renewable hydrogen generation. When using hydrogen generated from renewable sources such as solar or wind, total lifecycle carbon emissions are eliminated completely.
The Fuel Cell and Hydrogen Energy Association (FCHEA) represents the leading companies and organizations that are advancing innovative, clean, safe, and reliable energy technologies.

FCHEA drives support and provides a consistent industry voice to regulators and policymakers. Our educational efforts promote the environmental and economic benefits of fuel cell and hydrogen energy technologies.