TOYOTA H2HQ

TOYOTA'S HYDROGEN-POWERED DRIVE TOWARD SUSTAINABLE ENERGY INDEPENDENCE

Who We Are

Toyota is committed to decarbonization efforts with hydrogen fuel cell technology. Hydrogen fuel cells combine hydrogen and oxygen to make electricity, and emit only water vapor.

Toyota's Gardena, California-based Hydrogen Headquarters (H2HQ) is focused on the commercialization, planning, sales, and organizational efforts to advance the hydrogen economy.

+ More than 30 years of hydrogen fuel cell research and development in Gardena
+ Scalable, zero-emission transportation and infrastructure innovations
+ Team members across the U.S., collaborating with offices in Japan and Europe, dedicated to hydrogen research and development, engineering, product planning, business, and government affairs
+ Toyota opened its Gardena campus in 1974 and has been an active member of the South Bay community ever since

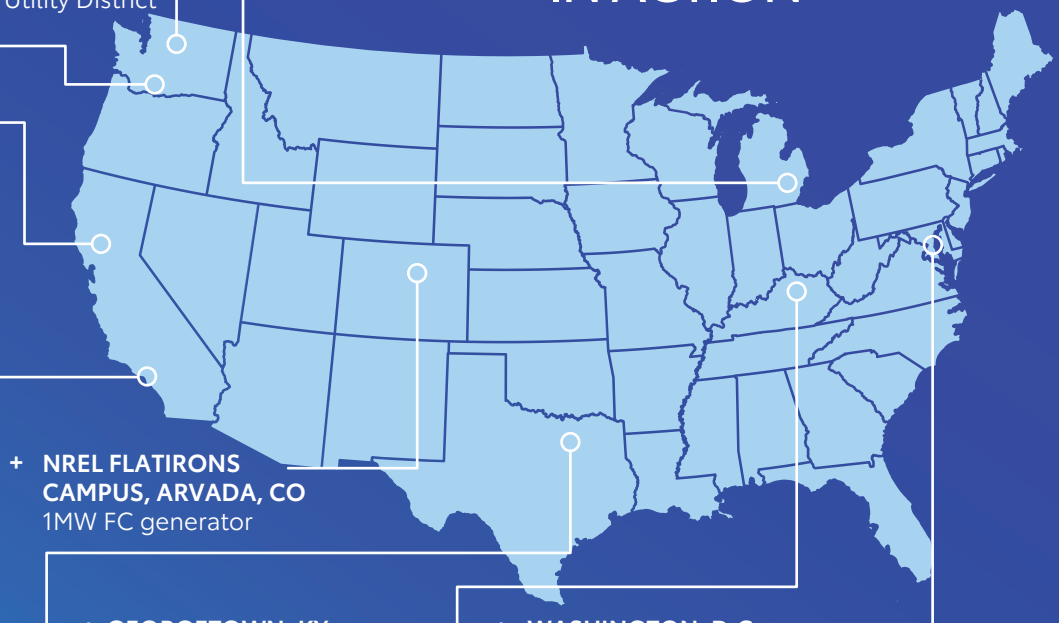
What We Do

Toyota has implemented fuel cell technology in various applications with the aim of minimizing customer and operational carbon footprints.

+ Vehicle development control, calibration, testing, benchmarking, and customer support
+ Develop hydrogen-powered fuel cells as a zero-emission powertrain in heavy-duty applications
+ Lead global hydrogen software development of hardware and protocols allowing heavy-duty refueling at similar speed to conventional diesel trucks
+ Engineer fuel cell technology for emerging stationary power generator infrastructure
+ Lead Toyota's certification for fuel cells and many Toyota and Lexus vehicles sold in California
+ Support light-duty Toyota Mirai development, fueling, and infrastructure

TOYOTA FUEL CELLS IN ACTION

+ **ANN ARBOR & YORK TOWNSHIP, MI**
  Product planning and engineering
+ **WENATCHEE, WA**
  Light-duty FCEV fleet for Douglas County Utility District
+ **GOLDENDALE, WA**
  Backup FC generator
+ **ROSEVILLE, CA**
  H2 fueling station
★ **GARDENA, CA**
  North American H2HQ
+ **LONG BEACH, CA**
  Tri-gen
+ **COSTA MESA, CA**
  Toyota Racing Development mobile FC generators
+ **EL MONTE, CA**
  H2 fueling station
+ **ONTARIO, CA**
  Planned H2 fueling station
+ **PLANO, TX**
  Business Development at Toyota HQ
+ **NREL FLATIRONS CAMPUS, ARVADA, CO**
  1MW FC generator
+ **GEORGETOWN, KY**
  Fuel cell module assembly
+ **WASHINGTON, D.C.**
  Hydrogen Advocacy in Government & Regulatory Affairs



Investing in Our Community

- $78 million total capitalized investment in Gardena since 1977
- $18 million donated to local nonprofits since 2020
- More than 14,000 hours of service time in South Bay community since 2020, including annual Adopt-A-Family, Habitat for Humanity, and Boys & Girls Clubs
- Annual STEM grants and equipment donations to 186th St. Elementary School totaling more than $100,000 over the past decade

Driving Innovation

- Solutions designed for everyday Toyota drivers and partner companies around the world
- B2B and non-automotive applications for vehicle fleet operators, port operations, and industrial uses
- Flexible microgrid project underway in Gardena, California, to demonstrate a self-contained, more sustainable way to deliver independent power generation
- 1MW proton exchange membrane fuel cell power generation system built in collaboration with the National Renewable Energy Lab to support real-world data collection and future technologies

14K+
Toyota Mirai Cumulative U.S. Sales

108
Team Members and Corporate Partners

89%
Engineering and Technical Jobs

Toyota fuel cell-powered Class 8 heavy-duty truck at Tri-gen port facility

Large-Scale H2 Vehicle Processing Operations

In collaboration with FuelCell Energy, Toyota Logistics Services showcased a model for reducing carbon emissions and conserving water at the Port of Long Beach. The Tri-gen system generates electricity, hydrogen, and usable water, supporting Toyota's vehicle processing and distribution operations. Toyota is building out a fleet of fuel cell trucks to support operations.

2025 Toyota Mirai fuel cell electric vehicle