



### Forecourt Solutions for the Future of Fueling

Source North America's Retail Sales Solutions team is dedicated to helping station operators future-proof their forecourts. We invite you to visit our [Retail Sales Solutions page](#) to browse a selection of products from Wayne Fueling Systems, Verifone, Red E, Square D and other leading equipment brands.

### Special Promotion!

And be sure to visit our [Retail Sales Solutions Promotions page](#) to check for promotional offers.



### Create a Free Tank Chart Today

Ace Tank & Fueling Equipment is celebrating over 80 years of providing "Innovative Solutions ... Extraordinary Results."

Ace Tank's proprietary [FuelSafe Systems](#) are designed to be turnkey fuel storage and handling systems. Other achievements at Ace Tank include launching a [free online Tank Chart Generator](#). Check it out!



### Find Station Essentials at Source's S3 Website

Source North America's retail website, Source Simple Solutions (S<sup>3</sup>), features more than 3,000 fueling products. Visit [shop.sourcena.com](#).

## 5 FACTORS AFFECTING THE VIABILITY OF HYDROGEN AS A LONG-HAUL FUEL



Hydrogen is emerging as a viable fuel option for achieving zero-emission long-haul trucking. In fact, PACCAR and Toyota Motor North America Inc. announced they are developing zero-emission, hydrogen fuel cell electric vehicles (HFCEVs) for the brands of [Kenworth and Peterbilt trucks](#), with deliveries planned for 2024.

And although expansion is on the horizon, there are several factors likely to impact the fuel's viability. Here are 5 considerations from a recent [North American Council for Freight Efficiency \(NACFE\) report](#).

#### 1. Characteristics of Hydrogen

Hydrogen has a high energy content per weight (higher than gasoline). However, the energy density per volume is quite low at standard temperature and pressure. To increase the volumetric energy density, hydrogen needs to be stored under increased pressure or at extremely low temperatures as a liquid.

#### 2. A Pair of Powertrains Emerge

HFCEVs have dominated research and development. In fact, Ronn Motor Group is establishing a dedicated logistics division that [will launch medium-duty HFCEVs](#). However, the recent advancement of hydrogen internal combustion engines (ICEs) have the capability of going longer distances with shorter refueling times and they weigh less than a battery electric vehicle specified to do the same job. The hydrogen ICE also preserves the conventional powertrain and will likely have a significantly lower initial cost than an equivalent fuel cell truck, the NACFE report said.

Hydrogen trucks also need to be purpose-built for their specific duty cycles, which will likely severely limit resale of the trucks. That notwithstanding, the potential for fuel cell trucks to operate 24 hours a day could help justify capital and operational investments in hydrogen.

#### 3. Production, Technology and Infrastructure

Significant amounts of electricity are required to produce hydrogen. Identifying an appropriate pathway to the energy needed for hydrogen production is part of development efforts.

Continued on Page 2



### Alexa Helps Drivers Locate EV Chargers

EVgo Inc. has partnered with Amazon to support an Alexa-enabled EV charging experience.

Through the partnership, motorists with Alexa-enabled vehicles can ask the assistant to help them find and navigate to EV chargers and initiate payment for charging sessions.

Learn more in this [NACS article](#).



### Ethanol Takes Center Stage at June Expo

The 39th annual International Fuel Ethanol Workshop (FEW) and Expo will take place June 12-14 in Omaha, NE. A Biodiesel Summit will be held in conjunction with the FEW expo.

Commercial-scale ethanol production, new technologies and research findings will be among the topics addressed at the workshop.

Learn more [here](#).



### The Fuels Institute Gets a New Name

The Fuels Institute is celebrating its 10th anniversary this year. During the Fuels '23 Conference May 22-24 in St. Louis, MO, the Fuels Institute announced the organization will go by a new name: [Transportation Energy Institute](#).

As part of the 10th anniversary celebration, the organization's Board of Advisors filmed short videos to mark the milestone. View the message from Source North America's Jeff Dzierzanowski [here](#).



## Source North America Contributes to PEI Women Conference

Women from all over the country gathered for another fun and memorable [PEI Women Conference](#).

The event, which took place April 26-28 in La Jolla, CA, gave women in the energy-handling equipment industry an opportunity to connect, grow and further the advancement of their organizations.

During the conference, Source North America's National Account Coordinator/CSR Manager Darlene Walsh led the roundtable discussion "Customer Service Strategies." Way to go Darlene!

### Looking Ahead to Another Conference

The Oregon Fuels Association's conference will be held July 16-18 at Sunriver Resort. Source North America is proud to be a sponsor of this annual event featuring a trap shoot, casino night and golf tournament. Visit [www.wpma.com/oregon/convention](http://www.wpma.com/oregon/convention).

### Hydrogen Story Continued from Page 1

Additionally, consensus needs to be reached on whether to pursue gaseous or liquid hydrogen. The storage of gaseous or liquid hydrogen impacts both the truck design as well as how the fuel would be hauled. According to NACFE, automotive hydrogen fueling stations will not be able to support heavy-duty trucks due to the significantly different volumes of fuel needing to be dispensed per vehicle.



#### 4. Demand and Scale

Hydrogen costs will decrease as hydrogen plants increase. But large-scale production requires multiple industries to increase demand for hydrogen — trucking alone is insufficient to reach the demand needed to justify large hydrogen plants. The oil industry seems to be eyeing hydrogen as a means to maintain market prevalence. Shell and BP are reported to be actively promoting hydrogen as a fuel to replace gasoline and diesel.

#### 5. Policy and Support

State and federal efforts to accelerate hydrogen adoption have intensified the past couple of years. The U.S. Department of Energy's (DOE) Regional Clean Hydrogen Hubs (H2Hubs) program includes \$7 billion to establish six to 10 regional hubs. The purpose of the hubs is to demonstrate the viability of the production, processing, delivery, storage and end-use of clean hydrogen in a region of the U.S.

The DOE is reviewing H2Hubs proposals from several entities and plans to announce funding awards this fall. The [Midwest Alliance for Clean Hydrogen](#) — comprising Illinois, Indiana, Kentucky, Michigan, Missouri, Minnesota and Wisconsin — is among the partnerships coming forward to demonstrate the fuel's viability. Learn more about DOE Hub efforts from the [Clean Air Task Force](#).



The Source University training center continues to welcome a wide variety of groups and organizations who are taking advantage of the center's educational amenities.

## Tank Training Is the Focus of Two Upcoming Programs in Texas

The Source University training facility in Arlington, TX, will host two upcoming training sessions focused on fuel storage tanks:

### Tribal UST Boot Camp

The Oneida Nation Compliance Assistance Program will conduct a Tribal UST Boot Camp Workshop June 27-29. The "no tuition" workshop will provide in-depth and hands-on experience in assessing, inspecting and evaluating all facets of UST system installation. Email Victoria Flowers at [vflowers@oneidanation.org](mailto:vflowers@oneidanation.org) for more information.



### Steel Tank Institute AST Inspector Training

The Steel Tank Institute will conduct an Aboveground Storage Tank Inspection class July 17-21 at the Source University training center. This class is for certification to SP001, the STI/SPFA industry standard for tank inspections that is also recognized by the U.S. EPA and state regulators. Government employees will receive a discounted rate. The certification is valid for 5 years.



Register online for the SP001 Aboveground Tank System Inspector Training Course [here](#).

To inquire about setting up an event at the training center or to take a 360° tour of the training facility's classroom amenities, please visit the [Source University Training Center page](#).



## Source University Adds a New Above-Ground Tank Exhibit

An above-ground storage tank is now on display in the Source University fueling system exhibit. Showcasing two methods for dispensing fuel, the exhibit features equipment commonly used in commercial and remote applications. [Contact us](#) to set up a visit.