



FUELING THE FUTURE OF CHAMPAIGN- URBANA MTD

Making
Hydrogen
Easy

OVERVIEW

The Champaign-Urbana Mass Transit District (MTD) is a transit agency servicing Champaign, Urbana, and Savoy residents as well as the University of Illinois. With a current fleet of 114 coaches in operation, most of which are hybrid, MTD seeks to help their community thrive with reliable, efficient transportation. As part of its sustainability initiatives MTD deployed the operation's first two 60-foot hydrogen fuel cell electric buses in 2021.

These buses were part of a larger project which also included modifications to MTD's maintenance and storage facility, design and construction of an onsite hydrogen production station, and a solar array. It was a challenge to align the timing of all four aspects of this complex project, especially with a global pandemic impacting availability of resources.

The biggest timing challenge was aligning the bus delivery with the hydrogen production station construction. Upon delivery, the buses needed hydrogen fuel to complete a 40-hour drive test before acceptance and MTD operators needed to complete on-the-road training. Because these are MTD's first hydrogen buses, MTD did not have any other method of fueling the buses without a completed onsite hydrogen production station.

When it became clear that the completion of hydrogen station would lag behind the delivery of the buses, MTD needed a temporary solution to fuel the buses with hydrogen. To ensure timely delivery, BayoTech was selected to provide hydrogen fuel and fueling infrastructure to bridge the gap.

KEY CHALLENGES



Aligning vehicle delivery with completion of hydrogen station needed to fuel fleet.



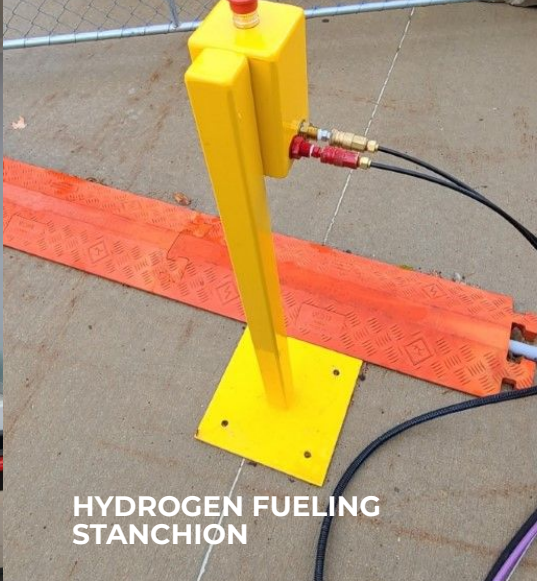
Accessible hydrogen supply that was readily deployable upon arrival of bus fleet.



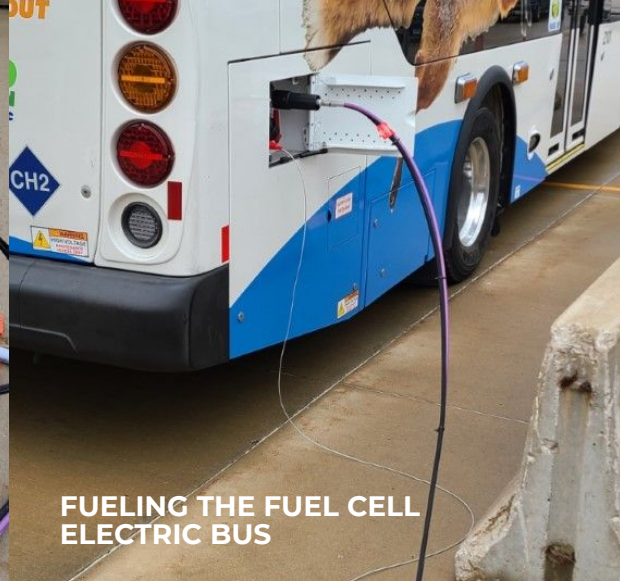
Assurance of future access to hydrogen fuel supply for temporary and emergency use.



BAYOTECH'S GTM1500 TRANSPORT TRAILER



HYDROGEN FUELING STANCHION



FUELING THE FUEL CELL ELECTRIC BUS

THE SOLUTION

BayoTech's GTM1500 was able to provide MTD a temporary hydrogen fueling solution within a tight deadline. The GTM1500 provides a smart flexible way to transport large quantities of compressed gas in a small footprint providing up to three times more fuel than standard steel-tube trailers. Its compact size allowed MTD to quickly and efficiently fuel their new buses for test drives without impeding the development of their hydrogen production station. The easy-to-use system paired with BayoTech's unbridled customer support, lead to successful temporary fueling needs that MTD required.

RESULTS

MTD's need for hydrogen fuel was urgent and unfamiliar to MTD staff. BayoTech stepped up to the challenge by moving quickly, providing training and education, responding to needs, and pivoting when necessary. The easy-to-use system gave MTD the confidence they needed to operate the equipment without hesitation and keep their project on schedule.

Even with the completion of MTD's onsite hydrogen production station, the partnership between MTD and BayoTech is expected to continue.

"Launching a start-up hydrogen project is complicated. BayoTech really saved the day in providing their temporary fueling stanchion and trailers. They were a pleasure to work with and their accommodations were much appreciated."

Karl Gnadt
Managing Director, CUMTD

THE BAYOTECH SOLUTION

Whether you're trialing your first fuel cell bus or operating a full fleet, BayoTech has the right hydrogen fueling solution. BayoTech's range of flexible, modular and scalable infrastructure solutions grow with your fleet. Leave the details of hydrogen supply to us and focus on what you do best – providing exceptional transit services.

For more information visit: www.bayotech.us

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