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Subscription Information

An annual subscription to Fuel Cells Bulletin includes 12 issues and online access for up to 5 users.

Subscriptions run for 12 months, from the date payment is received.

More information:

www.elsevier.com/journals/institutional/fuel-cells-bulletin/1464-2859

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ROAD VEHICLES

Quantron implements hydrogen drivetrain in vans and heavy trucks

German commercial vehicle company Quantron AG has collaborated with AE Driven Solutions GmbH (AEDS) to implement hydrogen drive solutions for full-size vans. Quantron has also unveiled its Energon heavy-duty freight truck, powered by fuel cell technology supplied by Freudenberg Sealing Technologies.

The first vehicles from the Quantron–AEDS partnership are the Quantron Q-LIH2 large light commercial vans, initially for platform and box body vehicles based on the Iveco Daily. These will be offered in 4.2 tonne (with 100 kW fuel cell) and 7.2 tonne (147 kW) models, with a range of 300–500 km (190–310 miles) depending on the hydrogen tank size selected. Quantron is working on expanding its range of fuel cell electric vans, to offer vehicles with different bodies and based on models from other manufacturers.

Quantron is also developing the hydrogen powered 44 tonne Energon truck, with a range of up to 700 km (435 miles), which is expected to be fully integrated into logistics processes in freight transport. The Energon features a 130 kW PEM fuel cell system manufactured by Freudenberg Sealing Technologies [FCB, October 2019, p2], supported by a 110 kWh lithium iron phosphate (LFP) battery, powering the 340 kW engine. Production is scheduled to start in mid-2022.

AEDS is an Aachen-based startup headed by several key people who had been with StreetScooter GmbH, a subsidiary of Deutsche Post DHL that recently abandoned its fuel cell vehicle programme to focus on battery electric [April 2020, p5].

Quantron: www.quantron.net/en

AE Driven Solutions: www.alternative-energy.solutions

Freudenberg Sealing Technologies, Fuel Cell: www.fst.com/fuel-cell

Dr Richard Group tests Solaris bus in Austria

The Solaris Urbino 12 hydrogen fuel cell electric bus is being tested in Austria by Dr Richard Group, the country's largest private bus operator,

which trialed it in passenger service in early July in Vienna and St Pölten.

After successful test runs in Vienna in June, the bus was handed over to the Dr Richard Group, which unveiled the vehicle in St Pölten, about 55 km (35 miles) west of the Austrian capital. Dr Richard operates a fleet of nearly 1000 buses, including Solaris vehicles, with which it has worked since 2010. The company has previously tested battery electric buses, so this latest trial gave a valuable insight into the practical operation and implementation of fuel cell electric buses.

Polish bus builder Solaris Bus & Coach unveiled its Solaris Urbino 12 hydrogen fuel cell electric bus last summer [FCB, July 2019, p3], and saw it tested by transit operators across Europe, including in the Austrian cities of Graz and Klagenfurt [October 2019, p3]. The company has already won orders for a total of 57 buses, from customers in Italy [July 2019, p3], Germany [April 2020, p2], and the Netherlands [May 2020, p2]. The first vehicles will be delivered to Bolzano, Cologne and Wuppertal by the end of this year.

Solaris Bus & Coach: www.solarisbus.com

Dr Richard Group: www.richard.at/en

CTE guidebook for deployment of zeroemission transit buses

The Center for Transportation and the Environment (CTE) in Atlanta, Georgia has released a comprehensive guide to the rollout of battery electric and fuel cell electric buses, highlighting key considerations for zero-emission transit bus deployments and infrastructure.

The Guidebook for Deploying Zero-Emission Transit Buses is intended to educate transit agencies on current best practices for zero-emission bus deployments, and ensure that non-profit and engineering firms providing technical assistance utilise a consistent and effective approach. The resource guides users through each phase of a zero-emission bus deployment, to maximise benefits and mitigate risks.

The document is based on lessons CTE has learned from previous deployments, its in-house expertise, and know-how of industry stakeholders. It aims to deepen transit operators' understanding of zero-emission technology and support decision-making, emphasising the importance of collaboration with technology providers, utility companies, fuel suppliers and contractors.

Fuel Cells Bulletin August 2020