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Linde delivers highly efficient hydrogen fueling technology to double retail hydrogen capacity in California

Munich, 22 November 2018 - In a move to ready California for the next generation of fuel cell electric vehicles, Linde is outfitting True Zero's newest retail hydrogen fueling stations with its highly efficient Cryo Pump 3.0/90.

The move will help to more than double the capacity of the California Hydrogen Network. The customer, True Zero, the retail brand of FirstElement Fuel Inc., currently operates 19 fully retail hydrogen stations throughout the state of California, dedicated to serving light duty fuel cell vehicles. "Our hydrogen fueling solutions are highly efficient, meet the highest safety standards and deliver the lowest total cost of ownerships per kilogram of hydrogen," says Werner Ponikwar, Head of Hydrogen Mobility Solutions at Linde. "California is a pioneer in hydrogen mobility – also thanks to the crucial funding granted by the California Energy Commission. We are proud to contribute our long-lasting experience and prove, together with True Zero as a strong partner, that hydrogen is the way forward."

"A major leap forward"

Linde's cutting-edge Cryo Pump 3.0/90 will be the core component in True Zero's newest fueling stations. It provides several benefits over earlier generations of fueling stations, namely increased capacity at lower operating costs and a smaller footprint.

"This is a major leap forward in scaling up the adoption of fuel cell electric vehicles and improving our planet," says Joel Ewanick, CEO of True Zero. "Linde's technology provides a significant increase of refueling station capacity, and with that we see a path to retailing hydrogen fuel at cost parity with gasoline. This next generation True Zero station will ultimately enhance the customer experience as

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people refuel with clean hydrogen,” Ewanick says. “It will deliver more hydrogen to drivers of zero emission fuel cell vehicles each day, and it will refuel cars simultaneously to reduce customer wait times.”

Realizing the future

True Zero and Linde are strong partners in hydrogen mobility: With more than 150 hydrogen refueling stations engineered worldwide and more than 30 years of research and development in hydrogen mobility technology, industrial gases and engineering company, the Linde Group, is a leading player in hydrogen mobility infrastructure.

True Zero, the only company in the world fully dedicated to providing retail hydrogen to customers of fuel cell electric vehicles, operates around half of all current retail hydrogen stations throughout the state of California and is currently developing 12 more.

The True Zero hydrogen refueling network extends the length of the state of California from San Diego to Lake Tahoe, with clusters of stations concentrated in the principal early adopter markets of Los Angeles, Orange County and the San Francisco Bay Area.

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About The Linde Group

In the 2017 financial year, The Linde Group generated revenue of EUR 17.113 bn, making it one of the leading gases and engineering companies in the world, with approximately 58,000 employees working in more than 100 countries worldwide. The strategy of The Linde Group is geared towards long-term profitable growth and focuses on the expansion of its international business, with forward-looking products and services. Linde acts responsibly towards its shareholders, business partners, employees, society and the environment in every one of its business areas, regions and locations across the globe. The company is committed to technologies and products that unite the goals of customer value and sustainable development.

For more information, see The Linde Group online at www.linde.com