



## YOU AIM FOR THE LARGE-SCALE ADOPTION OF AUTOMOTIVE FUEL CELLS. WE ARE THE IDEAL PARTNER TO HELP YOU REALIZE YOUR GOALS.

### Vision: Transition Into a Clean Future

Hydrogen holds the key to a clean energy future. It is a critical catalyst in our transition from fossil fuels to a more sustainable low-carbon global energy system. Fuel cell manufacturers now have the chance to play a major role in transforming the transportation industry using hydrogen-based energy systems. GORE® Fuel Cell Technologies can help you seize this opportunity.

### Goal: Commercializing and Upscaling Fuel Cell Stacks and Systems

For fuel cell electric vehicles (FCEVs) to realize their full potential and penetrate the mass market, not only do they have to be commercially viable, but also genuinely competitive against conventional combustion engines. Therefore, fuel cell stacks and systems have to become highly accessible in a greater volume, at the known high quality and for competitive costs.

In order to achieve a mass-market adoption in the automotive industry, manufacturers therefore need a consistent and secure supply of high-performing core components like the proton exchange membrane (PEM). **In this regard, having the right partner is what defines success.**

## Challenge: Supply Security and High Capacity

As of now, there are only a few PEM producers that provide secure partnerships with sub-suppliers and share established, proven and reliable raw material supply chains which are based on deep R&D initiatives. Moreover, not many suppliers have the capacity to manufacture PEM in the quantities required to meet the needs of the industry. But **building new capacities requires large investments** – in terms of cost, time and experience – in order to scale up to the level required to provide a consistent, reliable supply.

## Solution: With Gore, You Are Always One Step Ahead

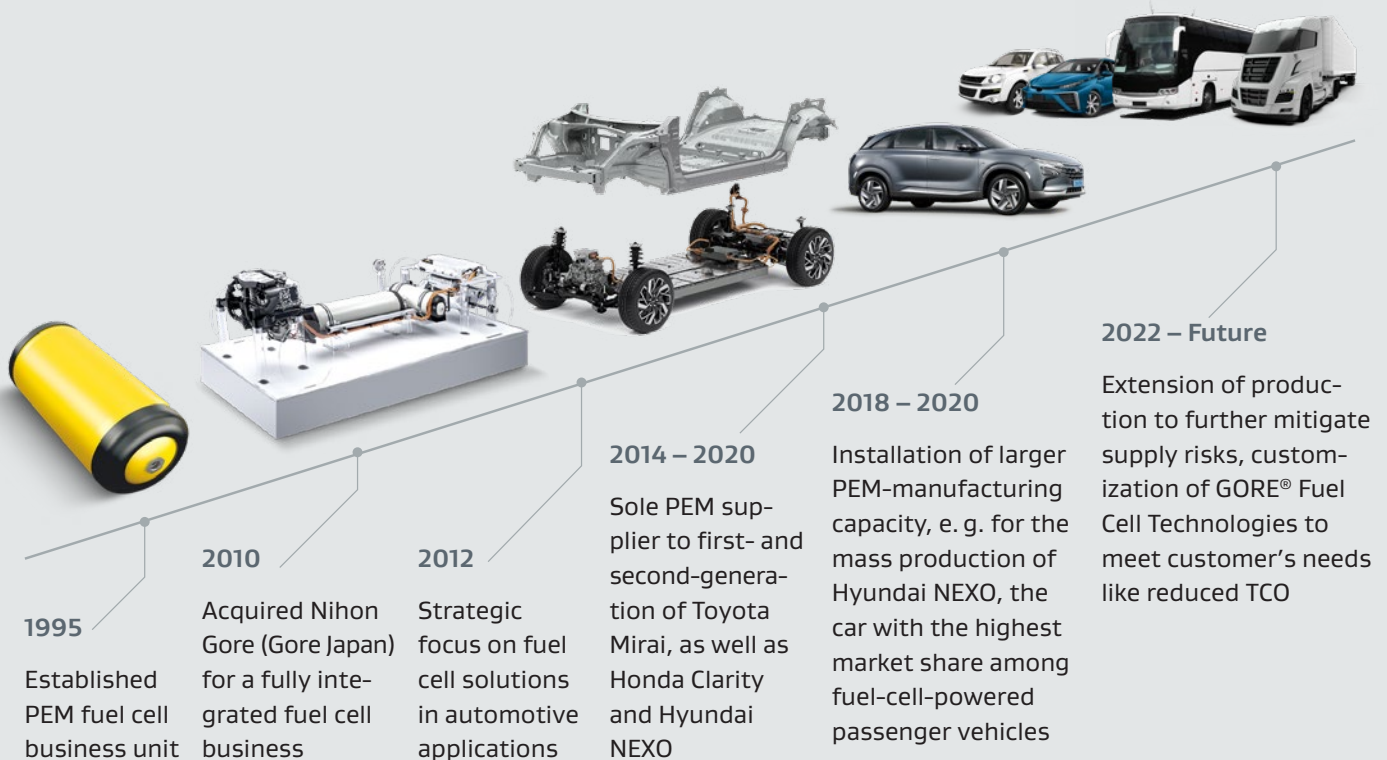
Not only does Gore have an **established production capacity of multi-million square meters of PEM** annually, but we also **secured the reliable supply**

**of important raw materials like ionomer** to support the prompt ramp up of the customer's large-scale projects – making scaleup investments unnecessary.

In addition, a secure supply chain does not end with Gore. Thanks to our global capabilities, our customers also benefit from a fast and reliable supply of high quality PEM products, distributed directly and indirectly via **ALL worldwide MEA manufacturers**.

## Benefit From More Than 25 Years of Experience, Innovation and Personal Exchange

Gore's fuel cell business unit was established in 1995. As one of the global market leaders for PEM, we have partnered with nearly all of the major fuel cell system developers and OEMs worldwide.



Our track record: Millions of square meters of PEM and MEA manufactured for more than 40,000 fuel cell vehicles. More than 100 different models developed. Over 150,000 metric tons of CO<sub>2</sub> emissions reduced.

[Learn more about the Gore Advantage](#)



While we are proud of our experience, we are not stuck in the past. **We have always been planning ahead:** For the end of the decade, we are already considering to extend the production in order to mitigate risks of supply in case of our customer's growing demands.

We also understand that meeting total cost of ownership concerns is relevant to stimulate the growth of fuel-cell-powered vehicles. **Contact us to find out how Gore can help you reach your upscaling goals with customized, high-quality membrane solutions. Get in touch now!**

## Let's Empower a Better Future Together

Secure supply and provide high capacity are only two aspects of Gore's commitment to the fuel cell market. As experienced partners in the field with a long and extensive track record, we have much more to offer.

For example, our deep expertise in the relevant R&D areas allows us to help the customers accelerate crucial development processes and to precisely determine suitable investments – now and in the future. And yet, there is still more.

Learn more about how Gore can help you on your road to success. Contact us now!

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### INTERNATIONAL CONTACTS

**Australia** +61 2 9473 6800  
**China** +86 21 5172 8299  
**EMEA** +49 89 4612 2211  
**India** +91 22 6768 7000

**Japan** +81 3 6746 2570  
**Korea** +82 2 393 3411  
**Mexico** +52 81 8288 1283  
**Singapore** +65 6733 2882

**South America** +55 11 5502 7800  
**Taiwan** +886 2 2173 7799  
**USA** +1 410 506 7812

W. L. Gore & Associates, Inc.  
201 Airport Road, Elkton, MD 21922  
T +1 800 523 4673 F +1 410 506 8585 E [performancesolutions@wlgore.com](mailto:performancesolutions@wlgore.com)  
[gore.com/alt-energy](http://gore.com/alt-energy)

