



Revolutionising the way energy is transported

SoluForce H2T (Hydrogen Tight)

Unique in the world
of hydrogen transport
and a global first.

SoluForce®

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The SoluForce Reinforced Thermoplastic Pipes (RTP) has been certified for hydrogen applications up to 52 bar of operating pressure. Unique in the world of hydrogen transport and a global first. Based on proven technologies, it can be the perfect accelerator to achieve local green hydrogen distribution in a fast, flexible and cost-efficient manner. Reusable and with a significantly lower CO2 eq. footprint compared to alternatives, this ready to use pipeline solution has a major impact on the feasibility of (green) hydrogen and a sustainable energy mix.

SoluForce pipelines play a crucial role in various hydrogen applications. These include regional hydrogen distribution, refueling stations for hydrogen vehicles, industrial applications, energy storage and offshore uses. Highly suitable for decentralized hydrogen production, they enable cost-efficient and scalable hydrogen transportation and distribution.



An example of SoluForce H2T usage can be found at Groningen Seaports, with four kilometers (2.5 miles) of SoluForce infrastructure (to be) used to distribute green hydrogen. Sourced from wind turbines in the North Sea, this hydrogen supports companies in the chemical and industrial sectors in the Eemshaven.

The pipe comes with a uniquely manufactured bonded aluminium layer, preventing hydrogen from permeating out of the SoluForce H2T pipe. Resulting in the industries only completely Hydrogen Tight Reinforced Thermoplastic Pipe (or RTP) system. Therefore it eliminates possible health, safety and environmental issues. The pipe is reinforced with aramid fibre, and the inside and outside layers are made of a non-corrosive HDPE. No special treatment is needed, thus reducing installation and maintenance costs.

- Certified for hydrogen applications up to MOP 52 bar/ 754 psi at maximum operating temperature of 65°C
- Based on proven and existing technologies
- The only Reinforced Thermoplastic Pipe for hydrogen applications available today
- Available in diameters of 4 inch/ 101,6 mm and 6 inch/ 152,4 mm (ND)

Reinforced with synthetic fiber, SoluForce H2T has a MOP of 52 bar/ 754 psi for hydrogen applications. Being fully flexible, it is ideal for even the toughest applications and can be installed anywhere. It is the industries only true permeation tight RTP system.

“Reusable and with a significantly lower CO2 eq. footprint compared to alternatives”



Main advantages:

- Operating pressure of 52 bar
- No permeation
- Fully certified
- Non-metallic fitting system

Main advantages compared to steel:

- Up to 4x lower CO2 eq. footprint
- No hydrogen embrittlement or corrosion
- Fully flexible
- Easy and quick to install



Durable, corrosion-free solution



Fast installation



No hydrogen embrittlement



Reusable



Maintenance-free



400-metre lengths per coil



Extremely robust

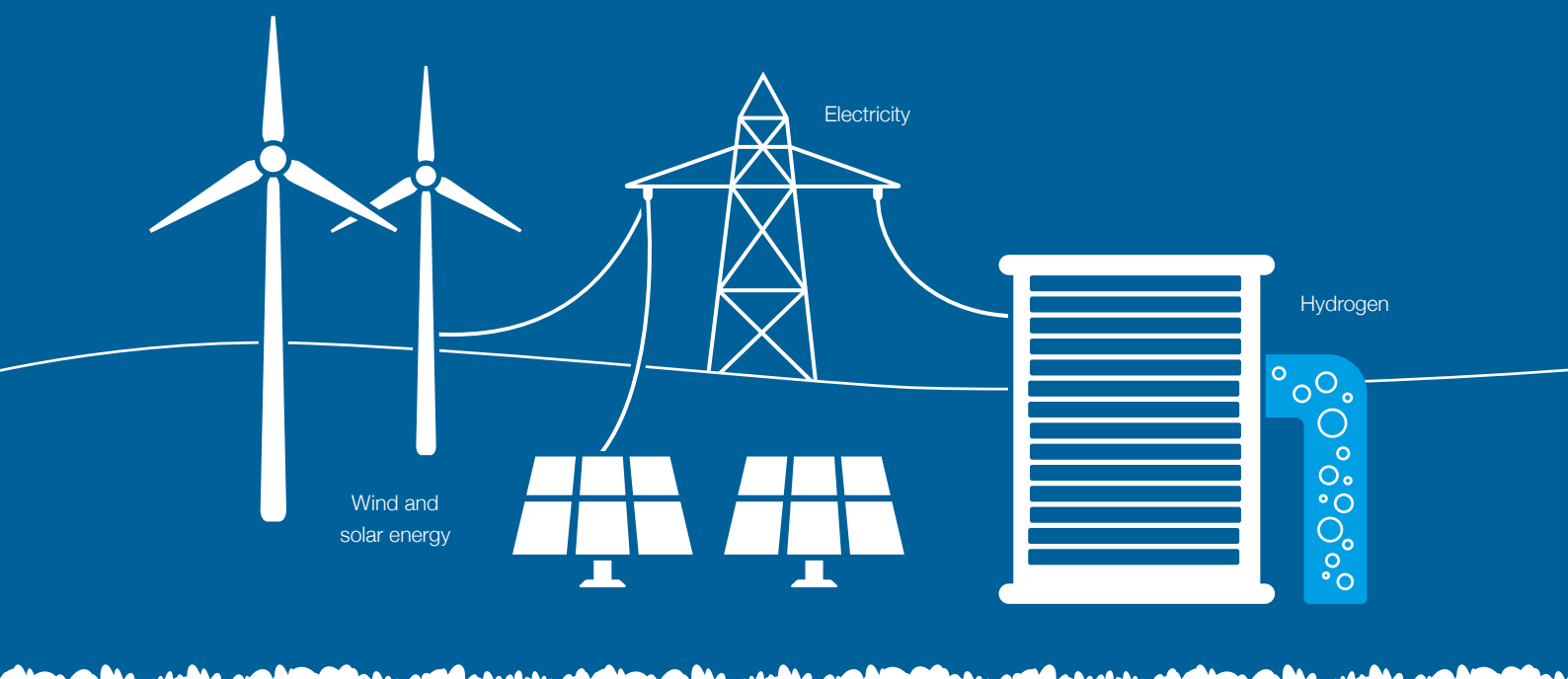


Professional installation training

SoluForce®

We are in the middle of a major energy transition, requiring cost effective, reliable and safe solutions. Renewable energies are becoming more important and, consequently, the share of renewable energy (i.e. wind, solar) is increasing in order to meet the climate targets. Hydrogen is one of the most versatile energy bearing substances, and will not only play an important role as a decarbonized energy carrier, but it will also provide a buffer function, making renewable energy a more viable solution.

Our mission is to revolutionize the way energy is transported, by offering solutions that help cut cost and make operations safe, durable and efficient. The SoluForce Hydrogen Tight system makes a significant contribution to the future of the hydrogen value chain and will accelerate the energy transition.



REVOLUTIONISING THE WAY ENERGY IS TRANSPORTED

SoluForce® is the originator of Reinforced Thermoplastic Pipes. Our metalfree pipeline systems and connectors for oil, gas, water, hydrogen and mining are quick to deploy in challenging terrain. They go round corners, up hills, across gullies and under water. With ease. They last up to 50 years, maintenance-free. Plus we offer specialist installation equipment and support, including onsite training. Our customers are cutting their costs in the toughest physical and economic environments on Earth. Isn't it time you joined the revolution?



SoluForce®

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