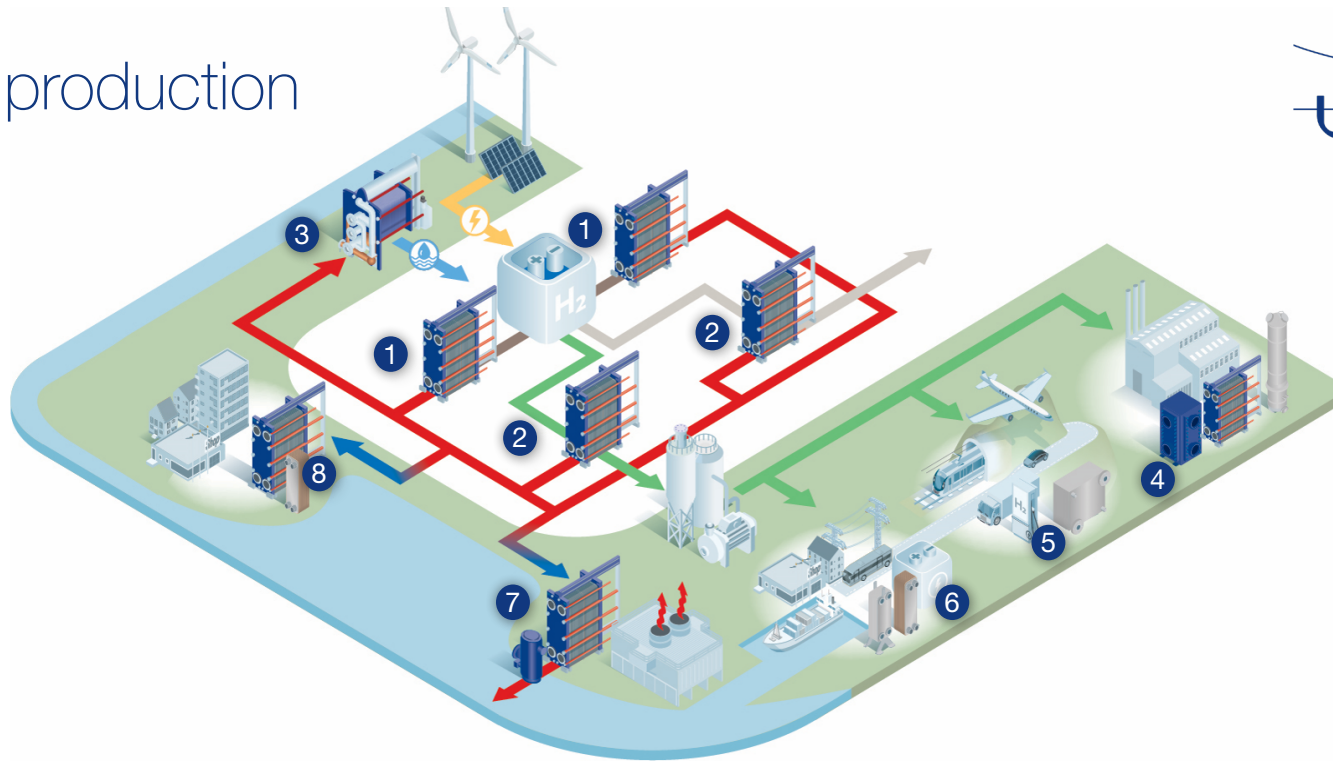


Hydrogen production



1. Electrolyte cooling

Did you know that 20-40% of the energy generated by electrolyzers is lost as heat? Alfa Laval's heat transfer technology ensure efficient electrolyser cooling, balancing-of-plant and enables heat reuse. [>>Learn more](#)

2. Gas cooling

The gas coolers have the crucial function to insure a good efficiency of green hydrogen production by reducing the gas temperature to the lowest level possible. Alfa Laval heat exchangers enable you to have both safe operations with robust equipment and recover heat from the gas if you want to. [>>Learn more](#)

3. Process water purification

High water quality is essential in green hydrogen production. But did you know that Alfa Laval's heat transfer technology makes it possible to use sea or river water in green hydrogen production, at the same time as increasing the system efficiency? [>>Learn more](#)

4. Power to X

Converting renewable electricity into vital molecules requires a broad system perspective. Alfa Laval's expertise and wide range of heat transfer technology can offer efficient heating and cooling in any Power-to-X application. [>>Learn more](#)

5. Fuel cell optimization

Converting hydrogen-based fuels back into power is made possible with fuel cells. Alfa Laval's advanced heat transfer technology allow for reliable heat performance and enable development and scale up of fuel cell system solutions. [>>Learn more](#)

6. Pre-cooling in Hydrogen refueling

Efficient and safe hydrogen refuelling is important to support a viable, hydrogen-based transportation infrastructure. Alfa Laval's heat transfer technology allows for optimized pre-cooling in hydrogen refuelling solutions. [>>Learn more](#)

7. Overall plant cooling

Plant cooling is achieved by factors like evaporative cooling. It lowers process fluid temps, improving efficiency. Minimal water use and low-quality water are possible, reducing impact. It uses less energy, is cost-effective, and reliable. [>>Learn more](#)

8. Waste heat recovery

Waste heat recovery enhances efficiency and saves money by capturing and reusing heat from processes, reducing reliance on fossil fuels and electricity. Choose the right heat exchanger to maximize recovery. [>>Learn more](#)