

Adenda

INTERNATIONAL INNOVATIONS ORIENTATION

Introduction sheet: Batenburg Installation Technology



Branche office Twello

Batenburg

Batenburg Techniek is a technical service provider in the heart of the smart industry. With over 1,000 specialists, Batenburg Installation Technology focuses on making the production, cultivation and real estate exploitation of customers in industry and infrastructure smarter, safer and more sustainable. Smart components are supplied, installed and high-quality software designed to control processes of three divisions. Batenburg Installation Technology is a Green World Solutions specialist by offering solutions within various sustainable energy technologies.

One of the divisions is Batenburg Installation Technology is close to the clients by a modern flat organization with short communication lines. Everyone within Batenburg Installation Technology has his own responsibility, but they also serve one common interest: customer satisfaction. We realize very well that when our client is satisfied we create the basis for continuity of the relationship.

Sustainability

Sustainability is a starting point for construction and covers all phases of the construction process. To build and operate a building sustainably, sustainable installation is necessary. Van Dalen has knowledge in the field of sustainable installation, integral design and maintenance concepts. Sustainable construction and installation is green, healthy, cost-efficient and ensures an increase in value. Batenburg Installation Technology follows continuous innovations and applies energy-saving techniques. Batenburg Installation Technology is a member of the Dutch Green Building Council.

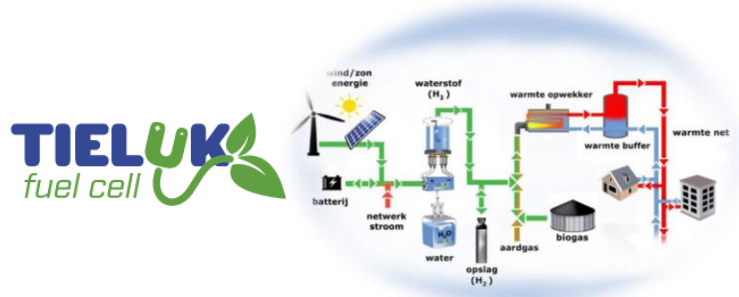
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Innovative

Batenburg Installation Technology likes to be challenged in applying the latest techniques. A good example of this is the application of hydrogen techniques. These and other innovative techniques ensure that the knowledge within the company is at a high level and we know how to find solutions for unusual challenges, such as the energy transition.

An example of this is the construction of hydrogen installations in collaboration with Tieluk.



About Tieluk

Tieluk is a Dutch supplier of high temperature, hybrid heating installations. Installations from 100 kW and more, which Tieluk produces tailor made in their own production. In addition to natural gas, these hybrid heating systems are fed with hydrogen gas through an extremely innovative fuel cell. This unique patented hydrogen fuel cell has been further developed in recent years by Tieluk. In the Tieluk fuel cell, Aqua Power Fuel (APF) is converted in a very efficient way to hydrogen and oxygen gas by a minimal power consumption. In addition, the required amount of hydrogen can be produced in a safe manner fully demand-driven, so no storage of hydrogen gas under high pressure is required.

We therefore call the principle of the system "power to gas". Tieluk enriches natural gas with CO₂-free generated hydrogen. As a result, a considerable CO₂ reduction is achieved. The minimum saving per installation is 30% immediately. This in addition to the substantial saving on the use of fossil combustibles.

The Tieluk customized hybrid heating systems with their low CO₂ emissions and low natural gas consumption are unique in the world.

By applying our products we want to initiate a change in thinking. Hereby we put the environmental issue with regard to our energy needs first. And by applying our products we can offer the next generation the opportunity to live in a healthy and unpolluted environment. We want to offer the next generation a future with all the energy facilities that are currently available, but in a sustainable way.

Advantages of the Tieluk hydrogen systems:

- Lower operating costs due to approximately 30% natural gas replacement for hydrogen which is generated from Aqua Power Fuel (APF) in a very efficient way through electricity.
- Much lower CO₂ emissions due to the combustion of hydrogen instead of natural gas.
- "Power to Gas", as a unique innovative high temperature warmth generation.
- Safe due to low pressure application of demand-driven hydrogen gas generation.