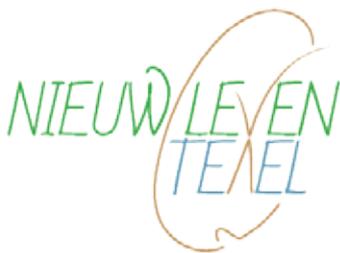




CUSTOMER: Nieuw Leven Texel
APPLICATION: Zero energy building
COUNTRY: The Netherlands
ABOUT: Nieuw Leven Texel is a family company offering luxury group accommodations on Texel island that are completely energy self-sufficient.



Sustainable batteries for the most sustainable properties



Nilar energy storage solution: a key part of Nieuw Leven Texel's solar power system

Thanks to the combination of solar energy, a wood pellet boiler and safe energy storage, guests can enjoy their stay at zero-energy properties.



A sustainable goal also includes sustainable batteries; The Nilar system is not only the safest battery in the market, they are also fully recyclable and contain no cadmium, mercury or lead. A logical choice for us!



The Challenge

When Nieuw Leven Texel decided to completely renovate their properties and relaunch under a new concept, sustainability was the focal point. The goal was to minimise the environmental footprint and to offer energy self-sufficient accommodation. Other key elements the family-owned business were aiming to offer were personal service and care, in a luxurious and peaceful environment, while keeping the environmental impact in mind. They believed that one key way to deliver this was through sustainable energy. To provide this 24/7, they needed a reliable energy storage solution that was in line with the new concept.

The Solution

In order to be as energy self-sufficient as possible, Nieuw Leven Texel invested in both solar panels and a wood pellet boiler for indoor heating, water heating and energy. In total, solar panels corresponding to 30kWp of solar power were installed. Energy that isn't used directly, is transferred to a 48 kWh Nilar rack system consisting of 40 Nilar battery packs, via a 50kW ABB ESI battery inverter. The entire process is managed by a Lovato energy management system, which ensures that the energy is used where it is needed the most in the properties.

"A sustainable goal also includes sustainable batteries; The Nilar system is not only the safest battery in the market, they are also fully recyclable and contain no cadmium, mercury or lead. A logical choice for us!", says Martijn Eelman, co-owner of Nieuw Leven.

The Result

Thanks to the combination of solar panels, a wood pellet boiler and an efficient Nilar energy storage system, Nieuw Leven can be completely energy self-sufficient during the lightest times of the year. The energy produced during the day is both used to provide guests with electricity and stored in the Nilar battery energy storage system for use in the evening. During the winter months, if the solar energy doesn't cover the properties' needs, the wood pellet boiler provides energy for hot water and heating, and electrical requirements if necessary.

Thanks to this combined solution Nieuw Leven, which translates directly to "New Life" in English, is considered one of the most sustainable group accommodations in Europe.

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About Nilar

Nilar was founded in 2001 as a research project by leading battery industry experts from Europe and the US. The company has been producing safe and environmentally-conscious Nilar Hydride® batteries for energy storage at commercial properties, private households, industrial plants and for use with the smart grid, since 2015. The Nilar Hydride® energy storage solutions are robust with non-flammable electrolyte and durable with a low lifetime cost. The modular design supports scalability to handle the energy requirements of everything from small residential systems to large-scale electrical installations. With R&D departments in the US and Sweden, and a manufacturing plant in Sweden, Nilar is revolutionizing energy and power supply technology, and is taking automated battery production to the next level. [Read more at: www.nilar.com](http://www.nilar.com)