

From linear to cycle logistics

The Logistics of Renewable Energy Components





Summary

Is cycle logistics a new era of efficiency and sustainability in logistics?

It certainly has a positive impact on various facets of the supply chain. Rhenus Warehousing Solutions serves as a hub for a full scope of logistics, as services incl. storage, deliveries, returns and e-commerce channels.

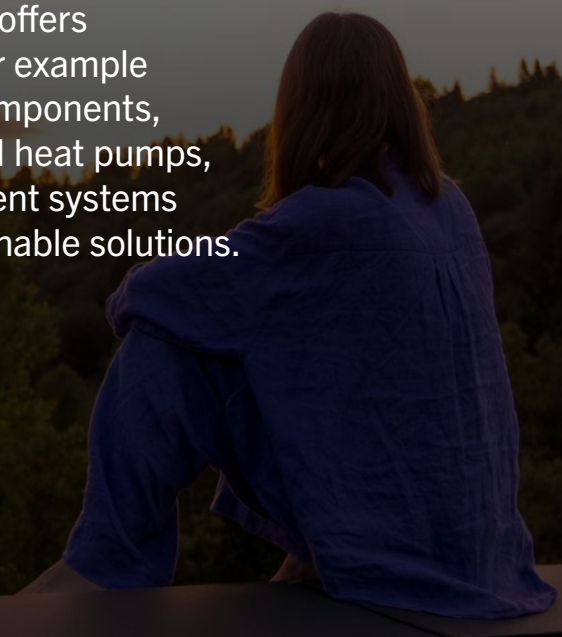
From downstream to upstream logistics

Rhenus Warehousing Solutions offers optimized logistics solutions, for example by storing renewable energy components, such as photovoltaic panels and heat pumps, implementing return management systems and embracing complex, sustainable solutions.

167 000 sqm
PV storage

2
solar farms

23,000
football pitches





Solution

Visibility within upstream, downstream and reverse logistics

Climate change necessitates a paradigm shift in how logistics is conducted, making sustainability one of the priority concerns. Warehousing as a pivotal link in the supply chain, should reduce environmental impact while enhancing operational efficiency. Rhenus Warehousing Solutions offers transformation from linear to cycle logistics: a complex solution with services tailored to the customer's needs. For our business partners manufacturing renewable energy components, we developed one-standard high-quality solution across 5 different markets: Spain, Poland, France, Germany and India.

Rhenus provided professional handling of various renewable energy components, such as PVs or heat pumps.

The full scope of operation is closed in the cycle logistics.

Thanks to a dedicated IT system we were able to support touch points in whole operation, efficient data exchange and precise serial number tracking. Flexibility and cost efficiency were possible due to the use of multi-user warehouses. To meet the requirements, Rhenus went the extra mile and implemented advanced return management systems, so the goods could be handled properly throughout their lifecycle.

Challenges

Logistical support for the renewable energy sector

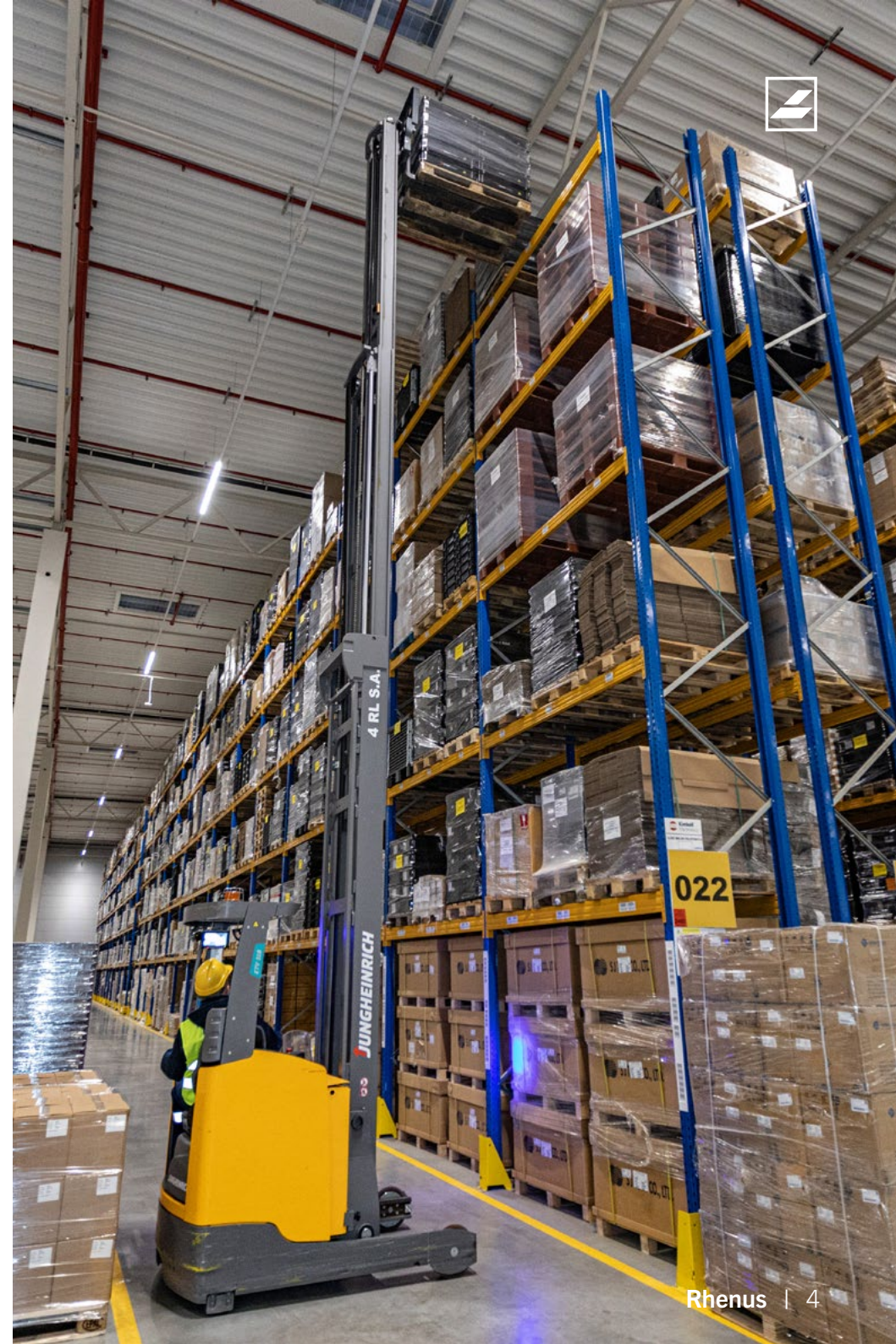
Businesses that have a goal of improving the global environment and fostering local development, naturally partner with logistics providers who can support them in their mission and answer their specific needs: Rhenus offers comprehensive logistical support tailored to the customer needs.

High fluctuation is a typical challenge for this industry. Logistics projects for this industry often experience significant fluctuations in demand and supply due to factors like seasonal variations, changes in government policies, and technological advancements.

These fluctuations can be properly managed thanks to advanced inventory tracking systems that monitor both upstream and downstream logistics.

Storage and handling of sensitive items require special equipment and well-trained staff

That's why partnering with expert logistics providers, such as Rhenus, is essential for businesses in the renewable energy sector. It will assure maintaining optimal inventory levels, reducing the risk of overstocking or stockouts, and ensure that the supply chain operates smoothly despite the inherent volatility of the sector.





The shift towards customized warehouses and cycle logistics allowed Rhenus customers a more streamlined and sustainable storage environment

Journey

Solution designed to help in global energy and ecological transition movement

To meet the needs for optimal, sustainable storage and handling, Rhenus offers a transition from linear to cycle logistics. This a flexible approach, designed for climate storage and handling solutions, where a full scope of operations can be included: upstream, downstream logistics and reverse logistics management. This holistic method ensures that resources are used efficiently, waste is minimized, and the overall environmental impact is reduced, aligning with the core principles of the renewable energy sector.

The cycle logistics approach gained prominence among the companies having sustainability in focus. One pivotal aspect of this transformation lies in the design and layout of tailored warehouse solutions.

Advanced WMS, innovations, experienced staff and safety regulations compliance make the process complete.

By optimizing storage spaces, implementing efficient material flow systems and integrating technology for real-time tracking and management, Rhenus redefines warehousing solutions as a dynamic component of the circular economy.



Interest in renewable energy storage solutions is increasing. With cycle logistics, we can provide complex solutions tailored to the customer's specific needs.

Przemysław Zarzecki
Senior Business Development Manager





Who we are

The Rhenus Group — Our global presence

The Rhenus Group is one of the leading logistics specialists with global business operations and an annual turnover amounting to EUR 7,5 billion. 40,000 employees work at 1,320 business sites and develop innovative solutions along the complete supply chain. Whether providing transport, warehousing, customs clearance or value-added services, the family-owned business pools its operations in various business units, with customers' needs remaining the major focus at all times.

1,320
locations worldwide

40,000
dedicated employees

7,5 billion
annual turnover

Together with passion

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