



**Trina Storage's**  
**100MWh GRID SCALE BESS PROJECT**  
in Strübbel, Northern Germany



## Project Overview

In Northern Germany, one of Europe's leading regions for wind energy production, the Strübbel Battery Energy Storage System demonstrates the growing importance of energy storage in stabilizing renewable power generation.

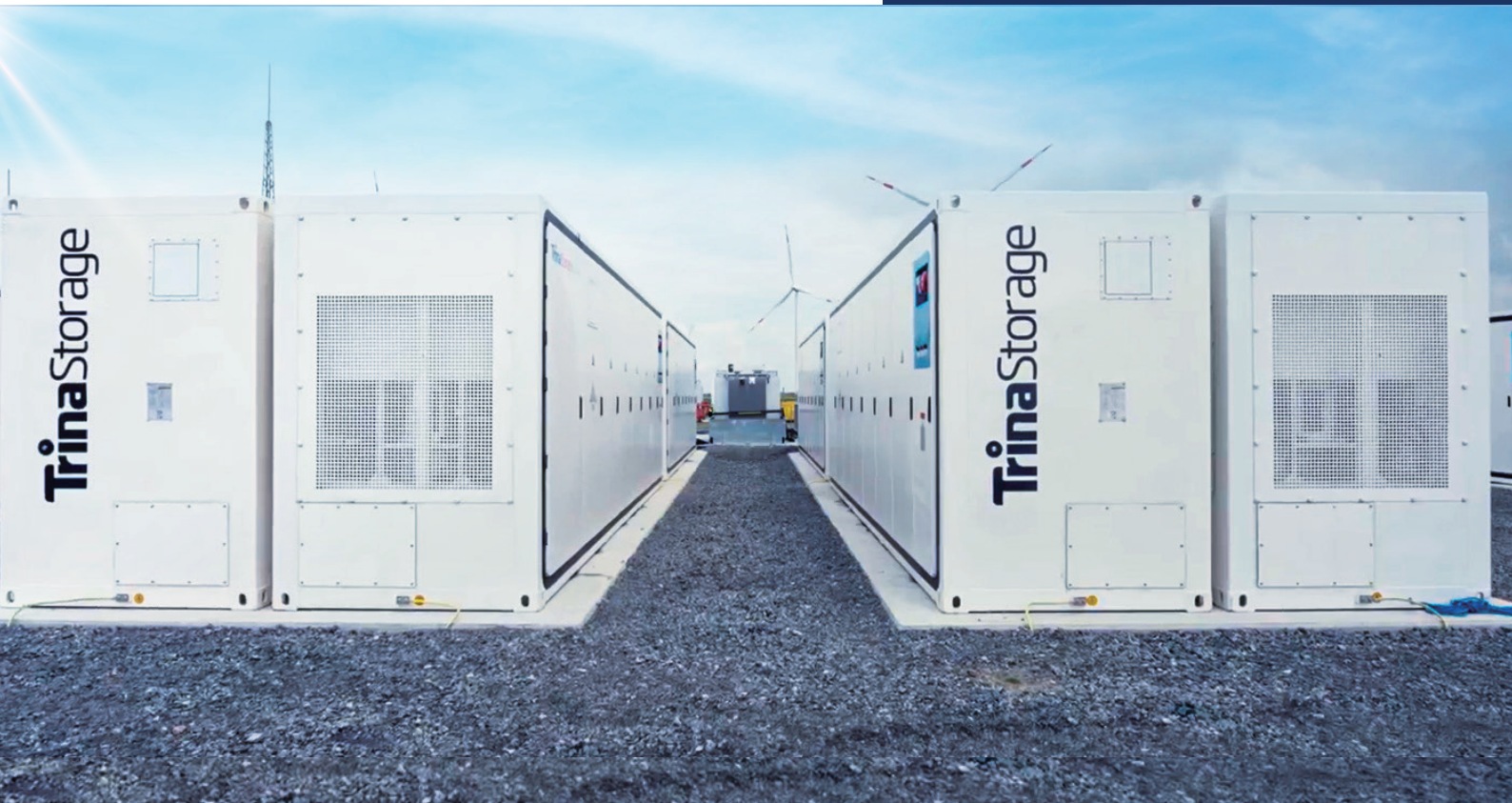
The system, built by Aquila Clean Energy in collaboration with engineering partner H&MV and powered by Trina Storage's Elementa technology, provides 50 MW / 100 MWh of grid-scale storage capacity. With a two-hour storage duration, Strübbel strengthens grid flexibility and enables the efficient integration of solar and wind energy into the power system.

## Project Objectives

- Enhance grid stability through fast response to frequency fluctuations.
- Store excess renewable energy and deliver it during peak demand.
- Support Germany's energy transition and renewable integration goals.

## Key Facts





<b>Location</b>	Strübbel, Northern Germany
<b>Commissioning</b>	2025 (expected)
<b>Capacity</b>	50 MW / 100 MWh
<b>Technology Provider</b>	Trina Storage (Elementa system)
<b>Developer</b>	Aquila Clean Energy
<b>BOP &amp; Engineering Partner</b>	H&MV
<b>Primary Use Case</b>	Frequency regulation, peak demand support, renewable integration





## Technology: Trina Storage Elementa

At the core of the Strübbel project lies Trina Storage’s advanced Elementa system. Technology is based on lithium iron phosphate (LFP) cells, optimized for safety, performance, and utility-scale operation. Each containerized unit features:

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**Advanced Battery Management System (BMS):**  
Real-time monitoring of performance parameters.
- 
**Safety Integration:**  
Heat, smoke, and gas detection systems for secure operations.
- 
**Scalable Design:**  
Configurations engineered for large-scale energy infrastructure.
- 
**High Flexibility:**  
Two-hour capacity enabling multiple use cases, especially frequency regulation and peak shaving.

## Implementation and Collaboration

The Strübbel project is the result of close collaboration among all partners:

### Aquila Clean Energy

Project developer, driving long-term sustainable energy investments across Europe.

### Trina Storage

Technology provider, delivering Elementa systems tailored to utility-scale requirements.

### H&MV

Balance of Plant (BOP) partner, responsible for engineering and construction, ensuring strict compliance with Germany’s grid codes.

This partnership ensured smooth coordination across project design, engineering, and execution.

## Impact & Results

### Upon commissioning, the Strübbel system will:

- Absorb excess renewable electricity during periods of high solar and wind output.
- Release stored energy to the grid at times of peak demand.
- Contribute to Germany’s goals of energy independence and grid modernization.
- Strengthen the reliability and sustainability of local energy infrastructure.

The Strübbel BESS represents an important milestone in Europe’s broader energy transition, combining innovation, collaboration, and the deployment of advanced energy storage technology.



**Ramy Shahat**  
Sales Manager  
Trina Storage Europe



Germany has been a pioneer in the transition toward renewable energy, and energy storage is a vital piece of that journey. At Trina Storage, we are proud to support this transition through advanced storage technology—delivering safe, reliable, and scalable solutions across Europe. The Strübbel project is a perfect example of this mission in action.

## About Trina Storage

“Lastest About Trina Storage”



**TrinaStorage**

**Leading the Energy Transition through Storage**

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