

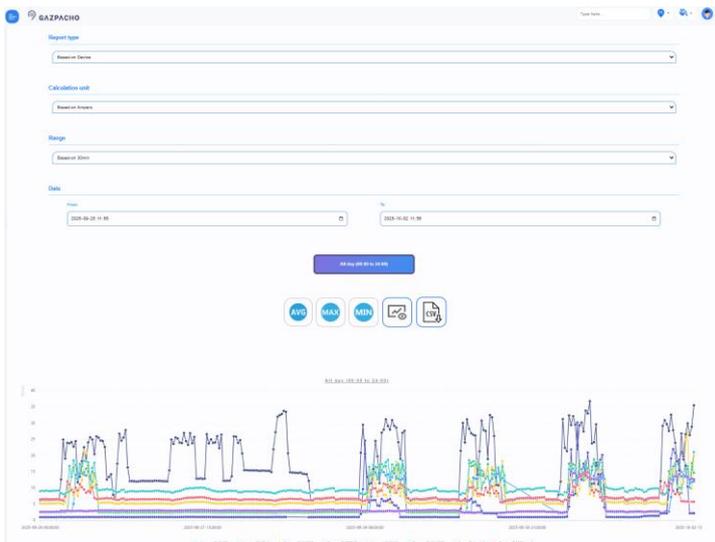
CASE STUDY

Data-Driven Energy Insights for Smarter Production

Wallåkra Mekaniska teamed up with Virtual Manufacturing to uncover hidden energy patterns and turn real-time data into smarter, more efficient production decisions.

BACKGROUND

Wallåkra Mekaniska is a specialist in CNC machining with a range of equipment including Hyundai, Doosan, and Fanuc machines. The project originated through Sandvik, who approached Virtual Manufacturing to support Wallåkra in gaining better visibility of their machines' energy usage. The goal was to understand actual consumption and provide data-driven insights to improve efficiency, cost and sustainability awareness.



“Understanding our energy consumption motivates us to keep optimizing and improving our production. For us, sustainability means working smart, taking a holistic approach, and making informed decisions that reduce our climate impact.”

- **Bea Strömberg, Wallåkra Mekaniska**

APPROACH

To turn data into insight, Virtual Manufacturing installed CT current clamps on eight CNC machines to capture real-time energy consumption. The collected data was integrated into Gazpacho, our platform for energy visualization and analysis. Through our team's on-site installation and configuration, Wallåkra gained access to clear dashboards and analytics showing energy use for each machine, enabling fact-based decisions. With help of Vericut Optimizer the data also helps identify and reduce energy consumption per component, supporting even greater efficiency in production.

OUTCOME

The results quickly became visible. With Gazpacho, Wallåkra Mekaniska gained a new level of transparency into their production, where energy data now drives both awareness and improvement.

With Gazpacho, Wallåkra Mekaniska can now:

- View live dashboards showing energy use per machine
- Sort and compare data by kWh, price, or amperes
- Track historical consumption over time or between products Identify which machines use the most energy
- Make informed decisions for improved efficiency and cost savings

By combining technology and insight, Wallåkra has taken an important step toward a more transparent and sustainable production environment.

