

EN



BUILDING SOLUTIONS

stiwa.com

YOUR PARTNER FOR DIGITALIZATION &
DECARBONIZATION



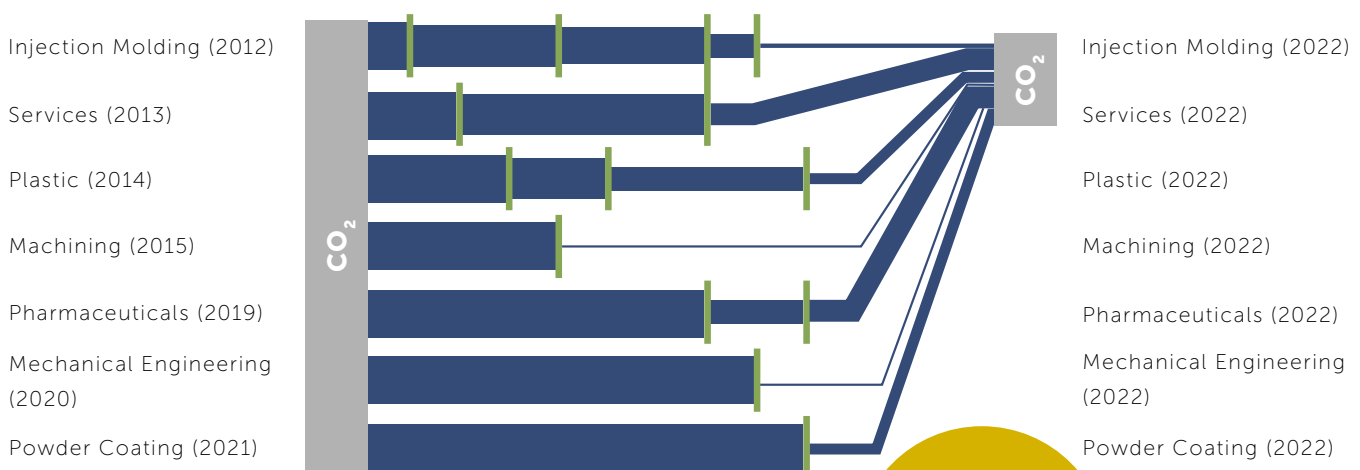
The Perfect Environment for People and Machines

Drawing on our experience in mechanical engineering and our approach of viewing a building as a “machine,” we tackle all challenges and interface issues between people, machines, and buildings. We identify, analyze, and optimize your environment so **you can focus on your production**.

- Maximum efficiency through **intelligent networking** of buildings and production
- **High-quality data analysis** as the basis for planning, implementation, and operation
- Long-standing **partnership** with general contractor Peneder Industriebau
- Use of **Beckhoff technology for future-proof solutions**
- **Innovation** through the **NEFI** research project

PRODUCTIVITY	ENERGY EFFICIENCY	CARBON NEUTRALITY
Minimizing Downtime and Scrap Rates We analyze your process requirements and ensure that the necessary conditions are consistently met.	Reducing Energy Costs Efficiently By leveraging synergies and increasing energy flexibility, we improve your energy efficiency.	Climate-Friendly Through Renewable Energy By phasing out fossil fuels and consistently using renewable energy, we are shaping a carbon-neutral future.

Specific CO₂ Emissions by KPI Across Different Industries



* The KPIs used are product output (injection molding, plastics, pharmaceuticals, powder coating), process labor hours (machining, mechanical engineering), and personnel (services)

* The base year is set at 100%.

* Calculation basis through 2022 for purchased energy sources

* Starting in 2023, all customers will receive a Scope 1 & Scope 2 emissions report.

Measures Implemented to Reduce CO₂ Emissions



STIWA Building Software Enables Decarbonization Through Digitalization

CONNECT: Data Integration with Existing Systems

- **Integration of External Devices and Control Systems:** External devices (e.g., electricity meters) and systems (e.g., ventilation systems or heating and cooling control centers) can be directly integrated via our interfaces (e.g., Modbus TCP, Siemens, OPC UA, etc.)
- **Data Retrieval from Control Systems:** Existing control systems (e.g., central building management systems) that do not record data can be integrated
- **Central System:** Integration of all data for centralized operation and analysis
- **Two-way communication:** Data can be exchanged in both directions, which enables the system to interface with third-party systems.



MONITOR: Web-based HMI for Control and Operation

- **High-quality data collection in industrial-grade systems** ensures data quality and efficient management of large volumes of data through automatic archiving
- **AI-ready:** Standardized data collection as the basis for further processing by AI systems
- **User Management:** Convenient setup and management of user groups and their permissions (e.g., integration with Active Directory)
- **Operation:** Centralized Web-Based Control
- **Clear display with real-time data:** Clear overview of the systems with real-time data
- **Alarm List:** Display of current alarms and error messages
- **Change Log:** All settings are recorded and are available for analysis.
- **Compliance with Strict Safety Requirements** such as NIS II, the Cyber Resilience Act, the Digital Data Act, and ISO 50001 for energy management
- **Software Maintenance** To meet security requirements and ensure updateability

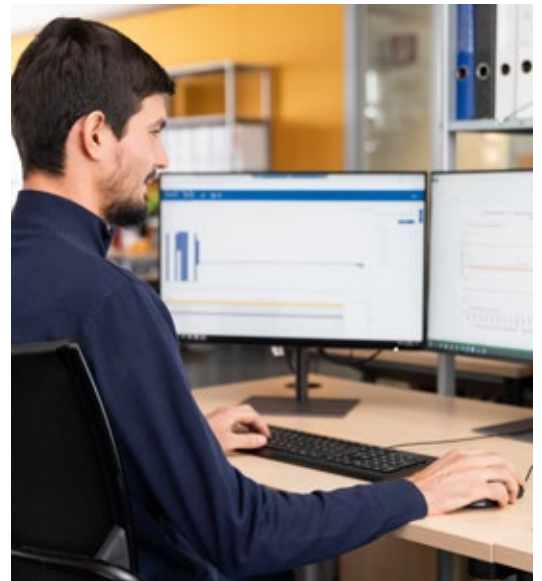


Centralized, web-based maintenance saves a significant amount of time.

Cost reduction during ongoing operations through rapid and transparent adaptation.

■ OPTIMIZE: High-Quality Analysis

- **Modular data analysis** enables the use of statistical methods for individual analysis and adaptation to specific requirements
- **Well-founded Key Performance Indicators** using mathematical functions based on fixed values and recorded parameters
- **Automated Report Delivery & Monitoring** enable the rapid and targeted dissemination of information within the company
- **Alarm List & Change Log** can be retrieved from the archives
- Automatic report delivery **saves a significant amount of time** on routine analyses.
- **Fact-Based Decision-Making** during ongoing operations, as well as during optimization efforts and investments.



■ CONTROL: Visual step-by-step programming

- **Transparent Control:** Thanks to our graphical programming interface, the logic is easy to read and understand.
- **Rapid Adaptation:** Changes to the regulations can be made quickly and reliably, since all links to other decisions are immediately apparent.
- **Tracking Decisions:** The logic can be followed in real time, and historical decisions can also be reviewed.



■ Digitizing existing sensors and systems saves on hardware investments.

■ Centralized analysis and control for all connected systems.

Optimierung Ihrer Produktionsstätte über den gesamten Lebenszyklus

Ob Neubau oder Bestand - mit unseren Services schaffen wir **maßgeschneiderte Lösungen** sowohl im Greenfield als auch im Brownfield. Durch die **Einbindung Ihrer Maschinen** schaffen wir eine **bedarfsgerechte Versorgung** aller Systeme.

NACHHALTIGKEIT & GESETZLICHE VERPFLICHTUNG

Wir liefern die Daten, Berichte und innovative Ansätze zur Erfüllung von gesetzlichen Anforderungen.

ENGINEERING

Wir **analysieren** die Anforderungen Ihrer Maschine an das Umfeld und erstellen ein umfassendes Gesamtkonzept.

FÖRDERUNGSABWICKLUNG

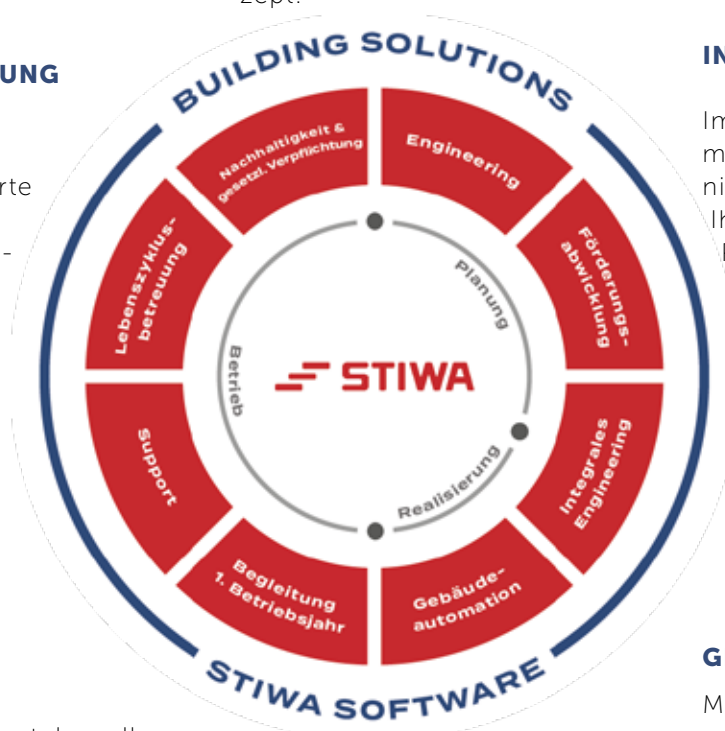
In Österreich wickeln wir die KPC-Förderungen für das umgesetzte Konzept ab.

LEBENSZYKLUSBETREUUNG

Quartalsweise Analysen der Energieflüsse ermöglichen datenbasierte Optimierungen im veränderlichen Produktionsumfeld.

INTEGRALES ENGINEERING

Im interdisziplinären Team mit Planer und Bauherr definieren wir die Funktionen für Ihren Bedarf während der Planungsphase.



SUPPORT

Unsere Experten stehen Ihnen für Ihre Anliegen zur Verfügung und unterstützen Sie bei der Koordination mit anderen Gewerken.

GEBÄUDEAUTOMATION

Mit nachvollziehbarer Programmierung sichern wir langfristige Flexibilität für Produktionsänderungen und zukünftige Anforderungen.

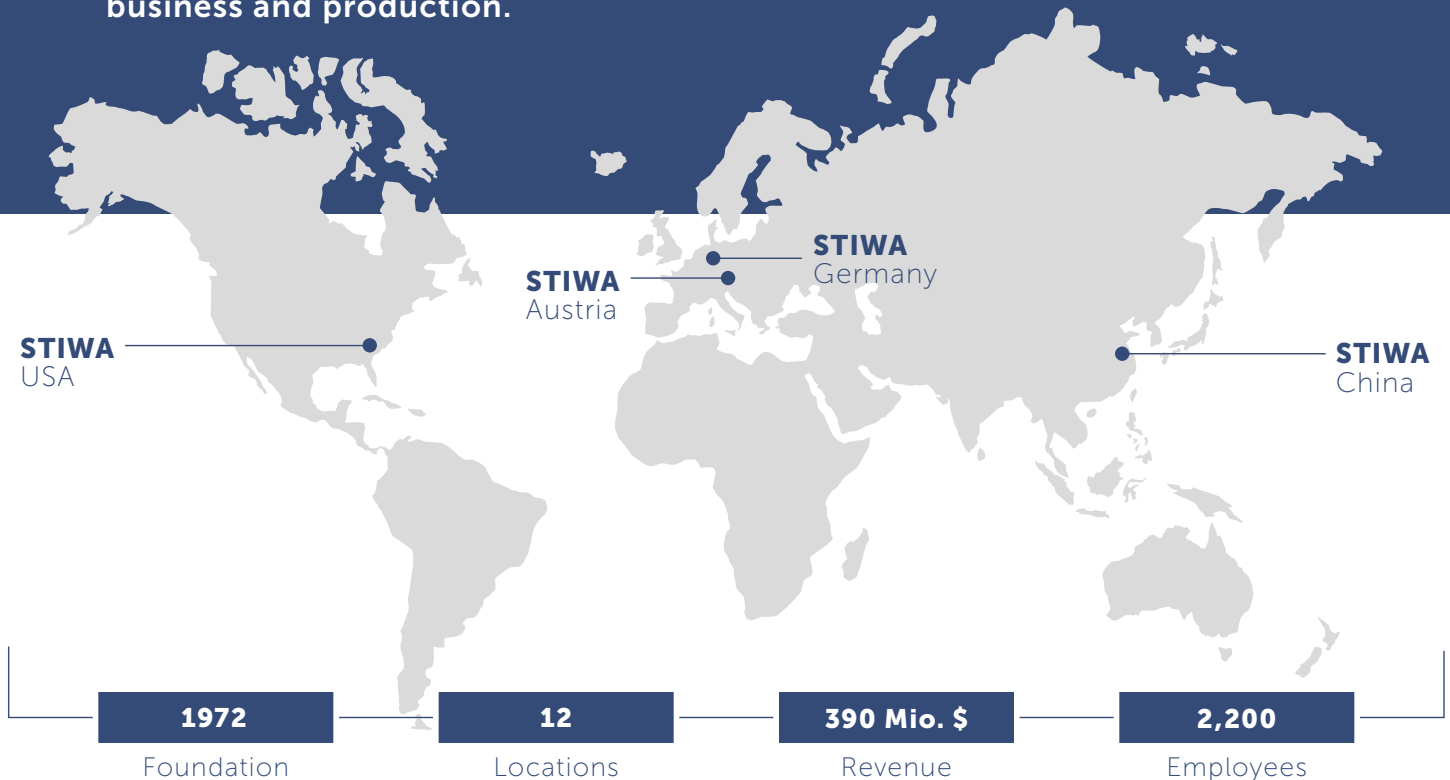
BEGLEITUNG 1. BETRIEBSJAHR

Gemeinsam mit Ihnen finden wir die optimalen Betriebspunkte für das Gesamtsystem.

Durch die synergetische Vernetzung von Produktions-, Gebäude- und Energiesystem können die Energiekosten bis zu 30 % reduziert werden.

Are you ready for digitized and decarbonized production? Contact us today to learn more about STIWA Building Solutions and how we can work together to optimize your production environment. Our team of experts is always available to answer your questions and develop a customized solution tailored to your needs.

Tell us what challenges you're facing, and we'll show you which of our services and software products can take the pressure off so you can focus on your core business and production.




















"As a trusted partner for the entire lifecycle of your production facility, we use data and facts to drive business success through guaranteed productivity and efficiency. Our **holistic approach** lays the foundation for **carbon-neutral production and future competitiveness.**"

Philipp Stelzmüller
STIWA Building Solutions



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