

TIGER IS GREEN – and committed to energy efficiency!



"In the 21st century, companies that cannot guarantee their customers the sustainable manufacturing of their products have little chance of success."

Elisabeth Berghofer,
Chairwoman, Board of Directors



Producing more with less energy - this is the motto at TIGER Coatings, a manufacturer of high-quality, innovative coating systems. To achieve this, the family-owned company headquartered in Wels, Austria, uses established measures like smart LED lighting systems and efficient circulator pumps. It also undertakes ambitious projects, such as the "Gemba Support Centre". This new award-winning office building is heated with waste heat from the production process and cooled with groundwater. An intelligent control system ensures an optimal indoor climate.

From a paint store to a global player

What began as a small painting business and paint store has become an international success story. With 8 production facilities, 3 R&D centres and around 50 sales offices worldwide, TIGER is now a leading manufacturer of high-quality surface coating solutions. Its products are used for facades, windows, car rims, furniture, refrigerators, machinery and more. They are solvent-free, versatile, have high material utilisation rates and are protective as well as decorative. TIGER's latest products, TIGITAL 3D high performance materials, are highly relevant for e-mobility and for the field of transportation in general.

What was achieved?

Heat recovery from powder coating production

From waste heat to space heating
– savings: 993,000 kWh/year

Efficient lighting

LED lamps for 400 luminaires
Motion sensors and dimmers
Savings: 47,000 kWh/year

Groundwater cooling

In 2014, extension of the groundwater abstraction permit (400 m³/h, discharge temperature: 20 °C)
Energy savings for cooling:
116,000 kWh/year

Compressed air

Leakage rate reduction from 16 to 8%
Pressure reduction through empirical approach from 8 to 6.3 bars
Savings: 169,000 kWh/year

Replacement of heat circulator pumps

Replacement of 3 main pumps with speed-controlled units
Savings: 67,000 kWh/year

ENERGY TRANSITION
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Producing more with less energy

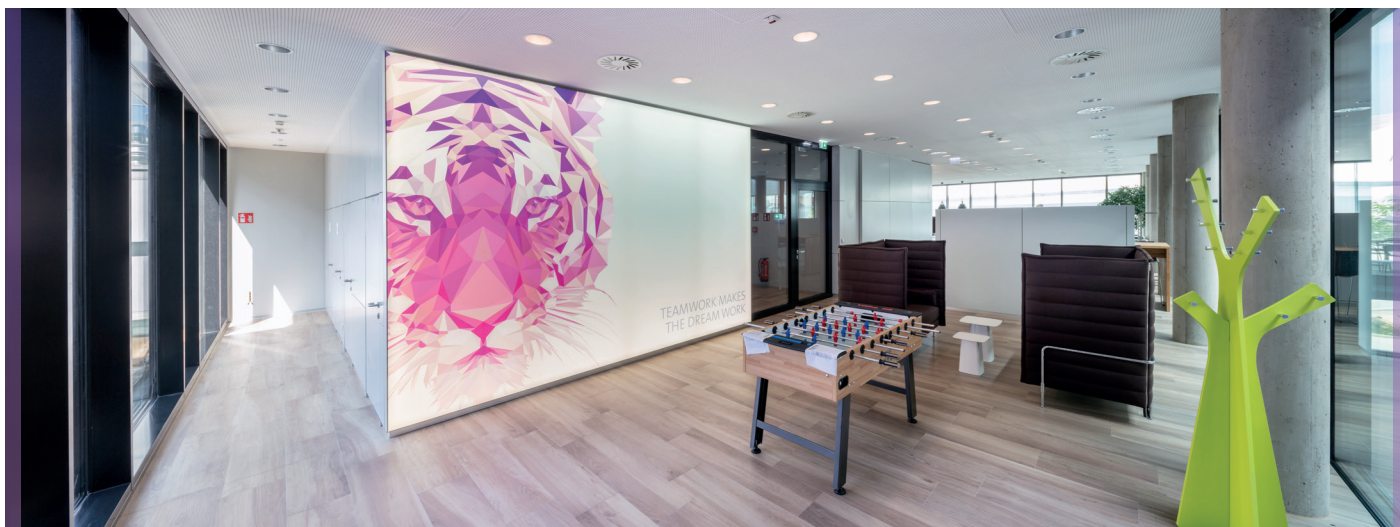
TIGER focuses on quality and innovation. Energy efficiency has also been a topic of high importance over the past decades. It all started in the year 2000 with the construction of a well that enabled using 12 °C groundwater to cool the company's buildings and processes. Ever since, TIGER has been consistently tracking down its savings potentials. Today, production halls and office buildings are heated with waste heat from the production process and highly efficient speed-controlled circulator pumps have replaced the old "power guzzlers". LED lamps with motion sensors and dimmers reduce electricity consumption while providing better light and a more comfortable workspace. At the location in Wels, the leakage rate of the compressed air system has been reduced to as low as 8% through regular maintenance. Since 2019, a 400 kWp PV system supplies the production hall with renewable electricity.





"We identify which efficiency measures bring the most benefit, implement them and continuously monitor their impact."

Marielen Haider-Madl,
Senior Project Manager



Gemba Support Centre – an office building sets new standards

TIGER is dedicated to keeping energy consumption as low as possible in new construction projects. The "Gemba Support Centre", an office building built in 2017, sets new standards in this respect. Winner of the 2018 "Energiespar" – the Upper Austrian prize for sustainable energy projects – the building has underfloor heating and a water-to-water heat pump that uses the cooling basin of the production facility as heat source. The constant and high temperature of the water ($\sim 19^\circ\text{C}$), enables a coefficient of performance (COP) of over 6.

Suspended cooling ceilings supply cool from the groundwater well. Intelligent solar control glass eliminates the need for blinds and saves around 6% energy compared to similar facades. LED lighting and daylight utilisation are already mainstream for the company. Monitoring software follows the energy consumption and the ventilation is optimally regulated by means of CO_2 sensors. The new office building is not only a very efficient and sustainable building, it also offers a comfortable and motivating working environment.

Moving forward: e-mobility, more solar and away from natural gas

TIGER Coatings has a lot planned for the next few years. First steps have been taken towards the acquisition of electric cars and charging stations. Further charging stations are to follow in the next few years so that employees can charge their electric vehicles during working hours. An additional PV system is being considered as well as a 1,000 kW heat pump that will allow all space heating and hot water generation without gas. The current energy monitoring system will also be improved because TIGER is convinced that having a good overview of one's resource consumption is the basis for successful environmental and energy management.

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The company – key facts & figures

TIGER Coatings GmbH & Co. KG

Founding year
1930

Products
Powder coating and digital inks for industrial printing systems

Employees
525 (in Austria),
1,250 (worldwide)

Production sites
Austria, China (3), Canada,
Mexico, USA, Vietnam

Consolidated group sales
295 million Euro (2018)

Ownership structure
Professionally managed
family-owned business

Processes
Three-stage powder coating
production (premixing, extrusion,
grinding); Production of digital inks
and 3D printing materials

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