



SENBOGEN

SUSTAINABILITY INFORMATION

MOVE BIG THINGS

COMPANY OBJECTIVE: CO₂-NEUTRALITY BY 2030

PV INSTALLATION
AT THE LITER SITE
IN HUNGARY (2,4 MW)

We work with responsibility and conviction to achieve climate neutrality by 2030 in accordance with Scopes 1 and 2. From 2026, we will publish a sustainability report in accordance with the CSRD.

With a view to the United Nations' 2030 Agenda, we are investing in our future and that of our future generations. We are therefore particularly committed to the following objectives of the agenda:



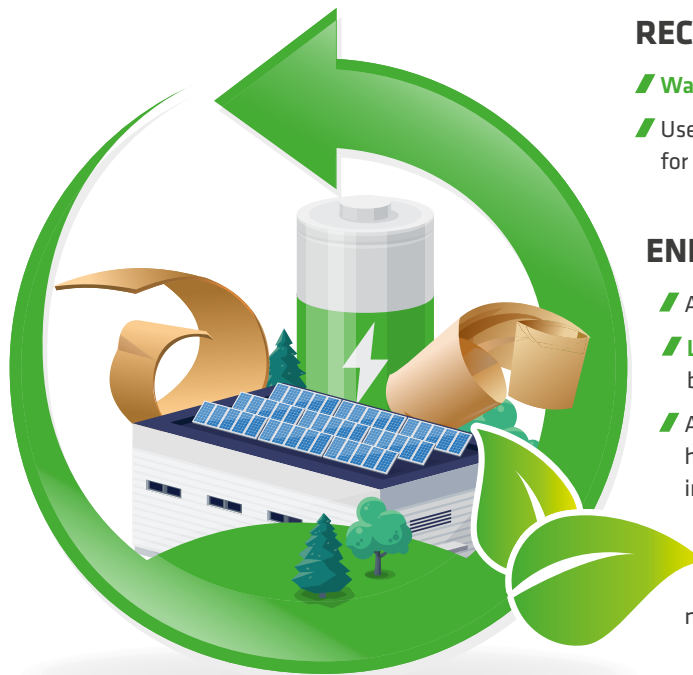
SUSTAINABILITY IN OUR FACTORIES

POWER GENERATION AND CONSERVATION

- ✓ **Photovoltaic** at all locations with a total output of 4 megawatts
- ✓ A total of four **wood chip heaters** with a total output of 4 megawatts (at all Bavarian locations)
- ✓ Wackersdorf and Straubing sites each have 500 kWh **battery storage**, charged exclusively via the PV system

USE OF RENEWABLE ENERGY

- ✓ Operation of **electric machines**
- ✓ Charging the **energy storage**
- ✓ **Electric cars** for factory traffic
- ✓ **Heating / Cooling**: geothermal energy, heat pump, water heating, groundwater cooling



RECYCLING

- ✓ **Waste separation** at all locations
- ✓ Use of own **wood waste** for wood chip heating

ENERGY SAVING

- ✓ Almost all factory lighting in **LED**
- ✓ **Low temperature heating** in office buildings and production halls
- ✓ All new factory buildings feature high-quality construction with increased thermal insulation in accordance with the certified **KFW 55 standard** (45% more economical than the statutory new building standard)



WE DEVELOP MACHINES WITH GREEN TECHNOLOGIES

► GREEN EFFICIENCY

G SERIES TECHNOLOGY

- /// Highest efficiency: state-of-the-art diesel engines, according to the latest technology (Stage V), effective multi-circuit hydraulics



STATE-OF-THE-ART CONTROL SYSTEM

- /// Performance optimization and minimization of on-site service through high connectivity of the machine and digital services

► BATTERY

ELECTRO BATTERY – BATTERY TECHNOLOGY

- /// Continuous and emission free work through Dual Power Management: Battery and cable supplied power options available

► ELECTRO

eGREEN ELECTRIC DRIVE

- /// Electro-hydraulic drives with long service intervals and long product life

► BALANCER

BALANCER TECHNOLOGY

- /// Potential savings of up to 75 %
Balance the machine with movable counterweights

► ELECTRIC DRIVE

ELECTRIC TRAVEL DRIVE

- /// Electric travel drive with energy saving potential of up to 30 % for material handlers

► GREEN STEEL

CO₂-REDUCED STEEL

- /// All machines can be equipped with CO₂-reduced steel

► HYBRID

GREENHYBRID

- /// Save up to 55 % energy with the energy recovery system: Use of the recovered energy for the next working cycle

ENVIRONMENTALLY FRIENDLY DIESEL



- /// Almost all machines can be operated with CO₂-reduced HVO fuel

FURTHER PLANNED MEASURES



Expanding the
**SHIPPING OF
FINISHED MACHINES**
via inland waterways



Expansion of our
DIGITAL SERVICE OFFERINGS
remote service (e.g. remote diagnostics,
SOTA) to avoid service trips



Further research on
**ALTERNATIVE DRIVES AND
ENERGY-SAVING METHODS**
for our machines



Additional
ELECTRIC CARS
in the company fleet



Optimization of
**HYDRAULIC
CONTROL SYSTEMS**
to reduce power losses



**AVOIDANCE OF PLASTIC AND
DISPOSABLE PRODUCTS**
a.o. at events (e.g. drinking water dispensers)

"We think long-term and in terms of generations. This includes the responsible use of resources, and we invest even if a sustainable technology won't pay off for another 20 years."

ERICH AND WALTER SENNEBOGEN

Company owners



SENNEBOGEN FAMILY:

ERICH, SEBASTIAN, ANTON, VICTORIA, ALEXANDER, WALTER (from left to right)