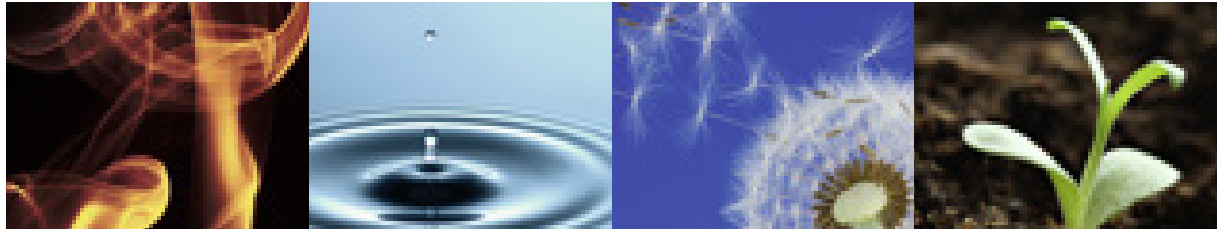


for our
ENVIRONMENT



Trisa[®]
OF SWITZERLAND



FOR OUR ENVIRONMENT AND OUR FUTURE

Harmony between humanity, work and the environment is deeply rooted within our consciousness. TRISA has placed a high value on the environment for over 50 years, which is long before the subject of ecology was on everybody's lips. Many milestones have come about because of our company's commitment and sense of responsibility towards our natural habitat. Keeping nature in good order is an absolute pre-condition for a good quality of life. We believe in giving high priority to the compatibility of our activities with the ecology.

TRISA's sustainable development is based upon economical, social and ecological considerations, which we need to optimise harmonically on a continuous basis. In this way, we can continue to discover new ways to fulfil our responsibilities towards our customers, employees, society and the environment at all times as the future unfolds.

The aim of this brochure is to explain TRISA's environmental performance with respect to the four elements of fire, water, air and earth over the past few years in greater detail. We hope you will find it interesting to read.

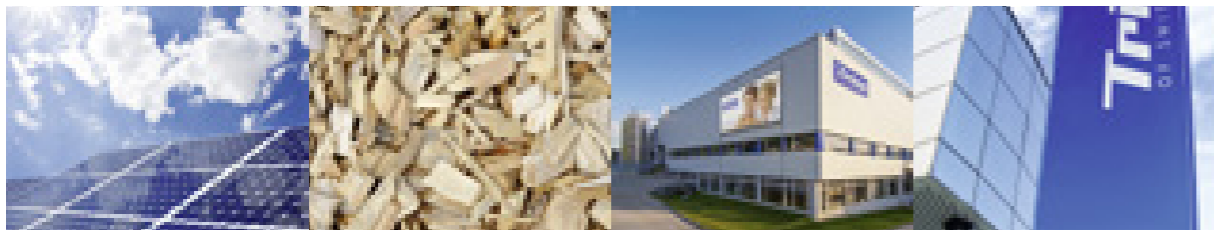
Adrian Pfenniger, CEO

SOLAR POWER SINCE 1998 The sun is a large and abundant source of energy. It continuously sends environmentally-friendly energy out over a distance of 150 million kilometres. TRISA began to take advantage of the sun's energy at an early stage: environmentally-friendly electricity is generated via a collector area of 1,404 m² over the roofs of both TRISA's factory 2 and TRISA Electronics. TRISA produces a total of about 135,000 kWh solar energy using photovoltaics; this corresponds to the annual consumption of about 28 detached family homes.

HEATING TRISA WITHOUT OIL Since 2013 TRISA uses wood chips sourced from native forests instead of fossil oil for its heat requirements. A district heating system supplies renewable energy to various TRISA properties and other buildings in the centre of the village at Triengen. As a result, no oil is used to heat any of the works for their ongoing production operations, an annual saving of more than 120,000 litres in heating oil. This district heating system has reduced the previous total energy requirement by approximately 1,25 million kWh, which corresponds roughly to the power consumption of 255 detached family homes.

RECOVERING HEAT CONSISTENTLY TRISA needs compressed air for its production processes. Every air compressor is fitted with a heat recovery system, and these provide significant support for the heating facilities within the various production buildings. Up to 79% heat energy is conserved as a result. Thanks to the state-of-the-art ventilation and cooling facilities in factory 3, which also incorporate heat recovery systems, TRISA achieves annual savings

of about 276,000 kWh, roughly corresponding to the power consumption of about 56 detached family homes. **SAVING POWER – MAKING BETTER USE OF THE EXISTING POTENTIAL** In Switzerland, power consumption has almost doubled since 1970, despite more efficient appliances. Saving energy is not just an issue for private households, it's a wake-up call for industry too: TRISA's main energy savings are achieved by using energy-efficient, climate-friendly technologies in its buildings, facilities and machines. The results we have achieved already are motivating us to invest further in energy-saving solutions.

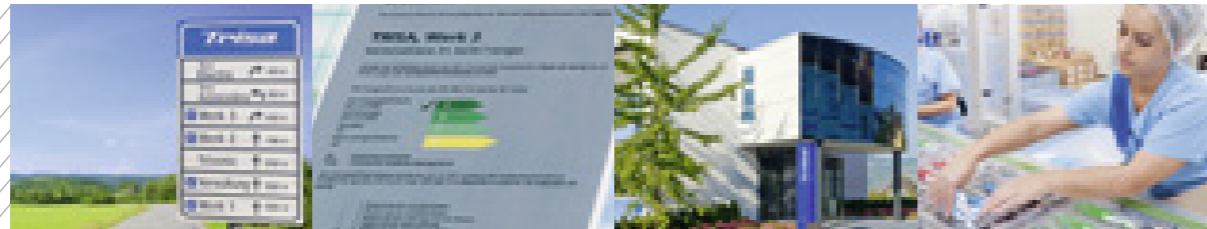




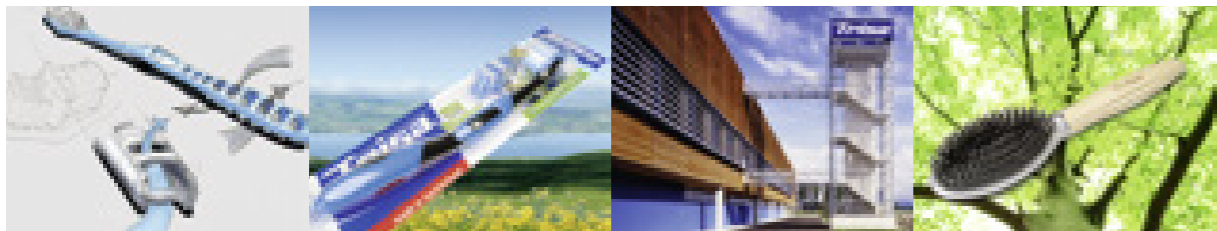
COOLING WITH WATER In Wellnau, above Triengen, surface water is stored in a pond and used via heat exchangers as a natural coolant for the injection moulding machines. These machines heat up the plastic granulate used to produce toothbrushes. Every year, the cooling system uses 240,000 m³ of water, which is then returned cleanly into the natural circulation system. The 4.8 million kWh of energy thus saved is equivalent to the power consumption of 980 detached family homes. **ADIABATIC COOLING** In its search for alternatives to cooling by means of environmentally-harmful chlorofluorocarbons (CFCs), TRISA has gone right back to a physical principle: the cooling by evaporation. Evaporating water draws energy out of the air, which thus becomes cooler. TRISA has applied this principle successfully to cool the air in the production spaces, for re-cooling in the chillers and for process cooling purposes. **USING RAIN WATER** We only need a small proportion of our daily consumption of mains water for actual drinking water, so TRISA also collects and stores rain water. The use of this lime-free water (e.g. to flush the toilets) allows us to save 3,000 m³ of drinking water every year. **WELL-PLANNED LOGISTICS – ALSO FOR SEA FREIGHT** Rather than wooden pallets, we use firm plastic sheets, known as “slips sheets”, for containers shipped overseas. These conserve resources and save space in dispatch. As a result, we are able to reduce freight volumes by an average of 20%. Another important contribution is made by short, direct transportation paths within our own production works.



REDUCING CO2 EMISSIONS Building renovations and solar energy were already achieving substantial reductions in CO2, even in the past. The new district heating system using wood chips will now produce an annual reduction of around 881 tons in harmful CO2 greenhouse gases. Sensible logistical measures also allow TRISA to make considerable reductions in its CO2 emissions. These include a well-planned traffic-management system in Triengen, which optimises the traffic to the different TRISA sites. **CLASS A ENERGY EFFICIENCY CERTIFICATE** TRISA's building automation system and the technical facility management system in factory 3 meet the energy efficiency requirement for Class A, the highest possible class. For this reason, factory 3 has been certified (in accordance with the Swiss SIA 386.110 standard and the European EN 15232 standard) at the current latest and most energy efficient level with regard to building engineering. This means that TRISA handles energy resources economically and minimises CO2 emissions. **CLEVER FACILITY MANAGEMENT SOLUTIONS** The facility management system records the information provided from across the technical structure of the whole facility and controls the heating and cooling system, the ventilation and climate control equipment, the lights, the sun shades and the fire and security systems. Approximately 120 energy meters have been installed to provide a continuous record of consumption. By monitoring and managing the system constantly, we analyse energy consumption on a perpetual basis, discover weak points, establish the potential for savings and optimise the facilities. **EFFICIENT VENTILATION SYSTEMS** The ventilation systems provide comfortable room temperature and high-quality air within the production facilities: this is important for the sense of well-being of our employees. At TRISA, ventilation systems are controlled by demand: ventilation is only provided if and when required for air quality or temperature control. Demand-oriented deployment of ventilation enables a 38% saving of energy. Additionally, it minimises the use of heating and cooling systems and conserves the filters.



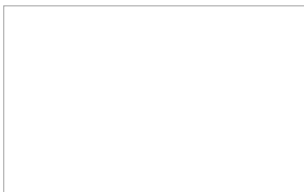
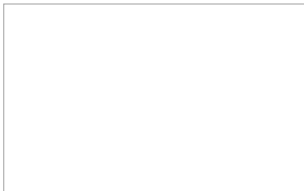
ENVIRONMENTALLY CORRECT PRODUCTS AND PACKAGING We start taking ecology into consideration from as early as the development and design stages for new products. The "Matrix" and "Focus" toothbrushes provide vivid examples of attractive designs that save materials. In general, we always strive to systematically avoid any form of excessive packaging for our products. The backing cards provided with our toothbrushes are 90% produced from recycled waste-paper, while 70% of the PET blister packs are made of recycled materials. **RECYCLING – FOR A CLEAN ENVIRONMENT** TRISA has been separating waste materials carefully for many years: this puts several



hundred tons of plastic, PET, cardboard, paper and aluminium into the recycling system every year. The material discarded by our production process is not destroyed, it is sent on to an external recycling company. Recycled material that has been inspected and found to be flawless is re-worked into the "TRISA - My Planet" toothbrush, generating a saving of 72% in new material.

MULTI-AWARD-WINNING TIMBER BUILDING In 1998, TRISA combined efficient processes with energy and cost-saving technologies at its factory 2. New and unconventional ideas set ecological and architectural accents, creating a new timber building that has since won a variety of awards. The special features of this light-suffused wooden construction include one of the very first large photovoltaic facilities in Switzerland, a system for recovering heat generated during the production process and a retention basin for rain water. **TRISA GOES FOR FSC TIMBER** The FSC (Forest Stewardship Council) label stands for timber products produced from the environmentally and socially sustainable management of forests. The progress of this timber can be accurately traced from cultivation of the trees to the final product. TRISA has chosen to use FSC-certified wood for a variety of hairbrush types. Consumers can therefore be certain that they are buying products with a guarantee of the preservation and care of natural woodlands.





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