



KI 031



CUSTOMER INFORMATION

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TITLE: GREEN COMPANY ENERGY POLICY AND CO₂ REDUCTION PLAN

As a company policy TUPACK has always tried to take leadership in all aspects of its business, so in the Green Energy Policy as well.

TUPACK is proud to purchase 100% of its electricity out of renewable sources as water, wind and biomass provided by the Austrian electricity suppliers. This due to the special geographical location at the river Danube and the high number of wind energy stations in the close neighborhood. So the supply of TUPACK's electricity reduces the carbon emission by 100% compared to electricity out of fossil sources.

In 1998 the tubes were solely produced at the factory Tupack with low capacity and linked with that low energy needs. In 2008 the tube output came from both sites, Tupack and Mareto, and due to the elder machine technology the energy consumption of Tupack plant was quite higher as for the Mareto plant. On the Mareto site the main CO₂ source is the burning of natural gas which is needed to operate the catalytic treatment of the flue gases of the varnishing units whereas at the Tupack site the main energy consumption is based on electricity coming from burning fossil fuels.

Due to the permanent investment into most modern production equipment TUPACK introduces energy saving technologies in the production process. Additionally TUPACK uses cold air out of the environment for cooling and air-conditioning in winter and condensation cooling in summer. Catalytic burning to reduce emissions at the production lines is used for heating the drying ovens. All production and environmental relevant data are automatically registered for later traceability and optimization of the energy balance of the production process.

By an increased use of UV technology combined with a reduced need for after treatment of flue gas the CO₂ emission levels will be clearly reduced.

The main performance in Energy consumption, total CO₂ emissions, management of waste and water consumption for the Tupack group has been monitored on a yearly basis for several years. Tupack group is working toward ISO14001 and ISO 9001 certifications. The management of environmental aspects is addressed by the ISO 14001 which also provides tools to identify, control and monitor the main key elements for the environmental impacts. This norm enables in a structured way the constantly improve on the environmental performance.

The graphs 1 – 4 demonstrate the different monitored parameters and their annual reduction or improvement targets.



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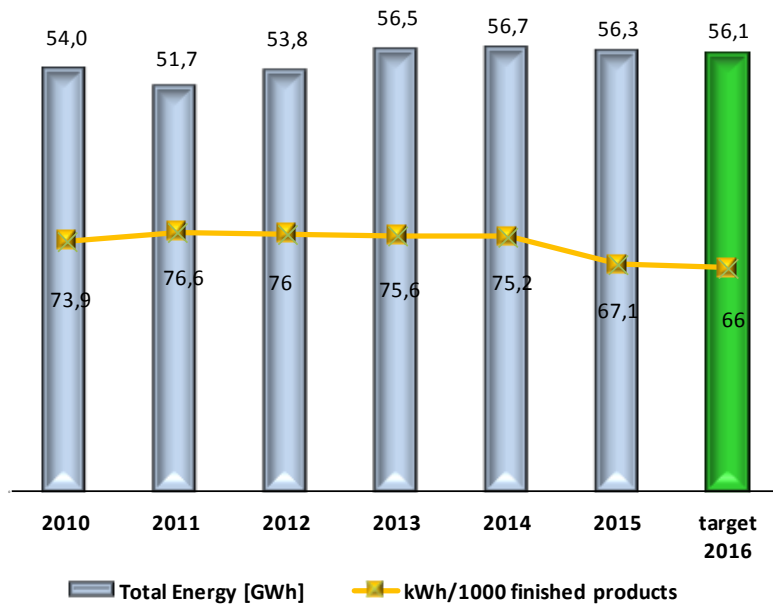
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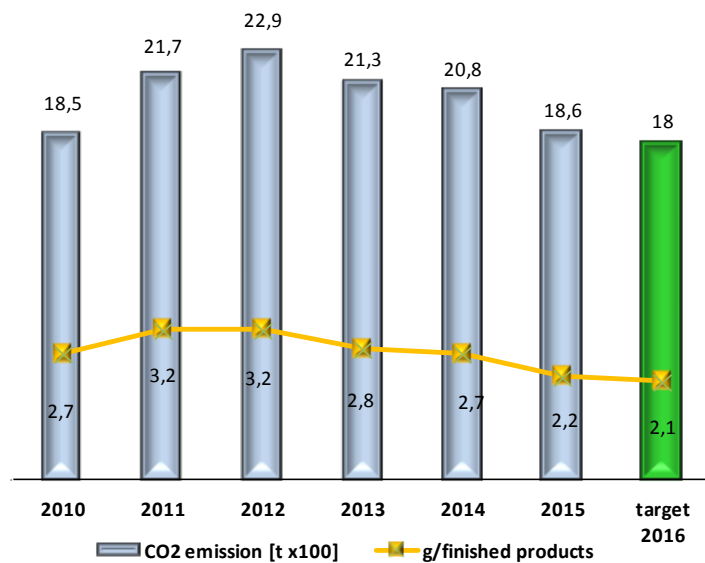
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ENERGY USE



Graph 1: Total energy use and consumption per 1000 pcs finished products

TOTAL CO₂ EMISSIONS



Graph 2 shows the total CO₂ emission level and the CO₂ footprint per finished tube.



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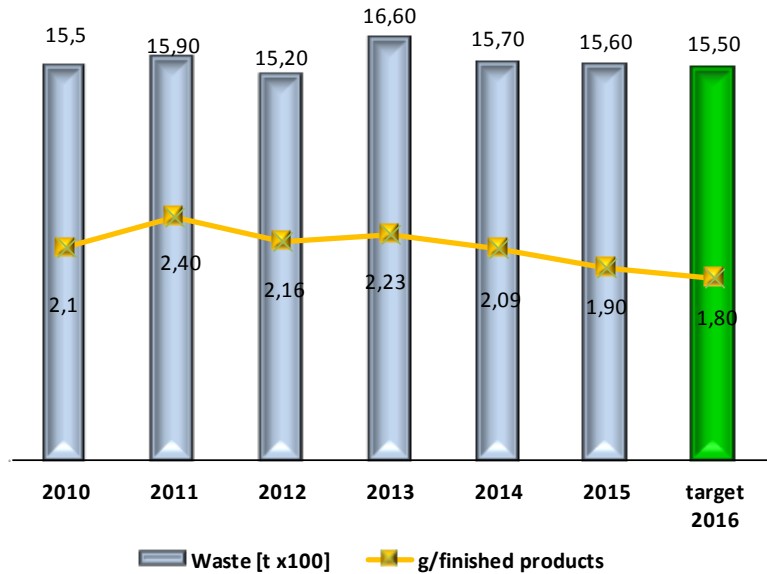
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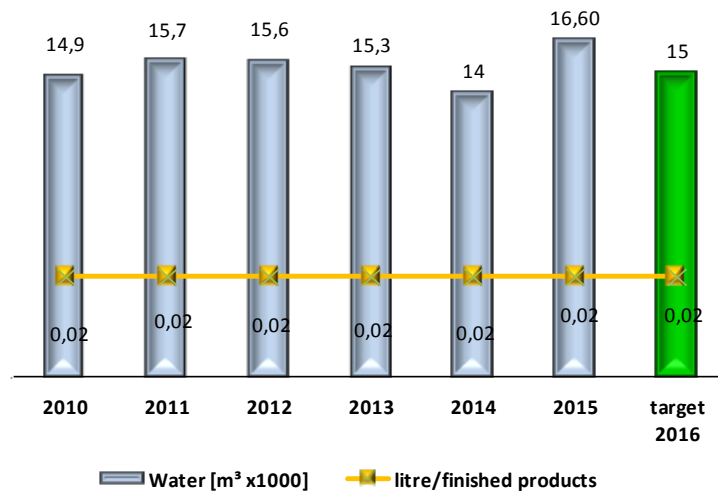
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WASTE



Graph 3 displays the yearly revenue of waste.

WATER CONSUMPTION



Graph 4 represents the yearly water consumption.



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