

PREMA[®] in Europe – **Germany** (Saxony Anhalt-Magdeburg)

Programme	Students-Project PRUMA from 06.04.2009 until 17.09.2009
Institutions involved	University of Applied Sciences Magdeburg-Stendal
Methodologies used	NPO, GHK-Cycle, EoCM (basic elements)
Number/ of enterprises involved	3 groups of students (24) in 3 enterprises (metal and electronics)
Consultants involved	Dipl.-Ing. Karin Bogdahn, Magdeburg-Stendal (FH) Dipl.-Ing. Michael Ziegler of eidos consult (PREMA [®] trainer)
Results & Benefits	Students learned the PREMA [®] approach and applied it in SMEs, which benefitted from the “triple win” plus work safety issues

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Case #1	Weros GmbH, Schönebeck
Sector	SME: Toolmaking and Mould Construction
Optimization Potentials/ NPO identified	<ul style="list-style-type: none">- partially outdated machinery- unused rooms- technical equipment not usable- chippings on the floor (work safety)- lighting not coordinated to workplaces- no use of rain water, alternative energy- leakage of compressed air machine- green space not attractive (no shadow)
Measures implemented	<ol style="list-style-type: none">1. To sell/remove unused technical equipment, resulting in €19.000 benefit, which liberated space for modern machinery2. Rent out unused rooms, yielding a monthly benefit of €5003. New lighting concept that saved ¼ of costs, amortized after 2.5 years4. Used a magnetic broom to clear floor of chips (instead of compressed air), saving energy

SME: Weros-Germany



precision parts



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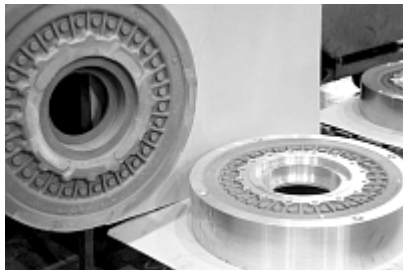
Case #2	Krüger & Gothe GmbH, Staßfurt
Type of Enterprise / Products	SME - Supplier of electronic devises for: Automotive Industry Mechanical engineering Rail technology Medical technology
Measures implemented	Isolation of heating tubes: saving: ca. 5500 m ³ gas / year (at a price of 1,15 €/1 m ³ gas) These are 6050 €/year. Amortisation: 1 year.

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Case #3	Achslagerwerk Staßfurt GmbH
Type of Enterprise / Products	SME – railway vehicle manufacturing, automotive engineering, wind generator
Measures implemented	Development of a palette circular system to avoid staining of the wood during coloring



Components for wheel bearing



Valves and hydraulic components



Wind generator