



Pict: New plate production center – ecological architecture using construction materials such as wood, new light-design with grand scale glass areas

# Energy management: certified according to ISO 50001 for the first time

*In April this year, AMAG passed the complete audit conducted by Lloyd's Register with flying colors. In addition to the successful certification of the areas of quality, environmental management and occupational health and safety, AMAG was awarded a certificate according to the international energy management system standard ISO 50001:2011 for the first time.*

In its operational areas, which have been subjected to Carbon emission trading since 2013, AMAG is already widely using energy-efficient state-of-the-art technologies, which has made it a pioneer in energy-efficient manufacturing in Austria.

For the purpose of a sustainable development of the company, AMAG gives top priority to improving its energy performance. The integrated site at Ranshofen and the proximity of the individual production facilities to one another allow the recovery of energy at one place and its feed it at another one, offering major advantages in terms of a continuous optimization.

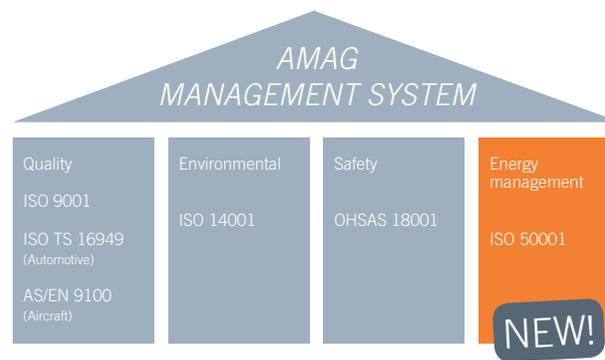
For a consistent implementation, AMAG operates an energy management system according to EN ISO 50001:2011. The required resources and information are made available by the Energy Management department, one of whose tasks is to screen existing processes for energy-saving potential and to

drive projects to improve energy efficiency. Short-term changes in the product mix may have a huge impact on specific energy consumption; therefore, standardized indicators are being developed to be able to compare different products.

The goal is to eliminate waste, to optimize energy use and especially, to increase the efficiency of technological processes. In this context, the close integration with research and production, in addition to a collective interaction in development projects are the key factors for success.

The continuous improvement process (CIP) which has been in place at AMAG for many years involving all employees is also a major contribution towards achieving this goal.

For new projects (e.g. the AMAG 2014 site expansion project; see p. 10), energy efficiency has top priority as early as at the design stage. ■



## EXAMPLES OF ENERGY EFFICIENCY AT AMAG

- Recovery of furnace waste heat for the use of combustion air preheating in the casting house
- Recovery of process waste heat to heat buildings
- Eco-design of buildings (heat insulation, natural construction materials such as wood, use of daylight)
- Energy monitoring resulting in the optimization of the energy consumption of production plants
- Photovoltaic systems producing ecological electricity
- Intelligent charging systems for electric fork-lift trucks to save energy and extend battery endurance

### What is ISO 50001?

This standard specifies the requirements for an organization to establish, implement, maintain and improve an energy management system. Its main purpose is to continuously improve a company's energy efficiency and achieve energy savings. A consistent energy management helps identifying unused energy efficiency po-

tential based on transparent processes and thus taking any improvement measures derived in a targeted manner. This will save costs and substantially contribute to protecting the environment and the climate, e.g. by long-term reduction of CO<sub>2</sub> emissions.