



Made efficient: **Benecke-Kaliko AG**

Eislingen site

Benecke-Kaliko AG operates under the umbrella of the Continental AG corporation. At the Eislingen factory, around 350 staff produce 133 km of foil sheets per day, mainly for the automotive or automotive supplies industry. These sheets are primarily used by customers for decorative coating of surfaces. Benecke-Kaliko AG produces patented foils under its own name.

HOCHTIEF Energy Management supplies the factory with media and ensures a clear reduction in operating and energy costs.

Reduced costs Lower emissions

Greater reliability of supply



Benecke-Kaliko AG

Requirements

A member of the ContiTech group of the Continental AG corporation, the company produces high quality technical and decorative surface materials for the automotive industry, at its Eisingen factory. The factory management had been searching for a solution to lower the costs of the energy-intensive production processes while also increasing capacity for its core business. The energy management was therefore outsourced completely to a contractor. HOCHTIEF Energy Management guaranteed costs reductions in the energy and media supply, coupled with greater supply reliability and availability.

Results

Since January 2004 the factory has received its process and heating energy, cooling water and compressed air plus the cleaning services for solvent-containing exhaust air from HOCHTIEF Energy Management. Immediate measures for optimization of the existing facilities ensured that consumption fell by five percent shortly after cooperation began.

The HOCHTIEF Energy Management engineers followed up this success by introducing a new energy supply concept. This covered the development of a new energy control centre, to house both the new boiler facility for steam generation and the new chiller facility for supplying the factory with cooling water. The existing exhaust air system was replaced with a modern regenerative thermal oxidation system (RTO). This achieved much better emission values with significantly lower operating costs. Parts of the pipe network for supplying the factory have also been renewed. The Benecke-Kaliko investment totaled over five million Euros. The eight staff from Benecke Kaliko, who were previously responsible for the energy technology, are now employed by HOCHTIEF. These measures have led to a clear and sustainable reduction in operating and energy costs for media supply. The contractual period is 10 years.

Services provided by HOCHTIEF Energy Management

- Facility redevelopment and reconstruction
- Facility operation

Individual measures

- Development of a new energy centre for supply of cooling water, steam and compressed air
- Replacement of existing exhaust air treatment facility with new RTO system for cleaning solvent-containing exhaust air from the production process
- Construction of a water treatment plant for acquiring cooling water and boiler feed water from river water
- Installation of control technology for all supply-related technical fields
- Investment in system redevelopment
- Realization of various measures for reducing customer's useful steam consumption

Media

- Heat, chilling energy, water, compressed air



Investment

- 5.3 million EUR, contract period 10 years

Savings

- 24% CO₂ saved (corresponds to 3,796,200 kg CO₂/a)
- 48% solvent emissions saved (corresponds to 4,045 kg Cges/a)
- Significant and sustainable reduction in operating and energy costs for media supply

Customer benefits

- Lower energy costs
- Reduced emissions
- Greater reliability of supply
- Greater availability

Efficient energy – perfect workflow

