

# Plant Conversion from Gas to Electric Heating

A Service provided by AICHELIN Group



**CONVERSION AND MODERNIZATION**  
Process security + Energy efficiency

## GET READY FOR THE FUTURE

Soaring gas prices and a volatile supply chain are issues that impact everyone, including, of course, the heat treatment industry. Therefore, many companies are looking into strategies and options to reduce CO<sub>2</sub> emissions in order to contribute to the energy transition. Uncertainties on the energy market also come with high economic risks. This is why it makes sense for many companies to switch to alternative forms of energy – such as “green” electricity.

Especially in the long run, electric heating systems are an excellent alternative.

Using electric heating systems also improves plant safety. From a present-day perspective, heating with electric heating elements is one of the safest and most proven solutions.

Only by preparing timely for a conversion to electric heating it is possible to continue production even if the situation regarding gas supply deteriorates further.

## THE AICHELIN SOLUTION: REPLACEMENT OF YOUR HEATING SYSTEM WITH A SYSTEM OF THE SAME TYPE

For the conversion of radiant tube heating elements, the existing gas burners are replaced by electric heating elements. For this, the new electric heating elements come in sizes that allow them to be installed into the existing jacket tubes without further modifications. Any other adjustments or retrofits of the plant will be individually handled and adapted to the customers' needs. This ensures that the set-up of the plant remains unchanged, and the process stays the same. The existing switching system including the temperature regulation will remain mostly unchanged. The power control required for the electric heating will have its own switch cabinet.

A conversion from gas to electric heating is not considered a “significant change”, as no new hazards emerge. No new adjustment or reissuing of the declaration of conformity is required. Exceptions here are heating systems with ceramic heating tubes.

## YOUR ADVANTAGES: ELECTRIC HEATING

- The conversion contributes significantly to supply reliability and CO<sub>2</sub> reduction.
- Increased plant safety and availability
- Reduced maintenance and costs
- Spare parts at proven AICHELIN quality

## YOUR RELIABLE PARTNER

- We provide a one-stop service: Project management, parts, and implementation.
- Play it safe, with a leading partner in heat treatment
- Highest flexibility for the conversion within your time and cost requirements
- Extensive experience within a strong group of companies
- Fair pricing and professional handling