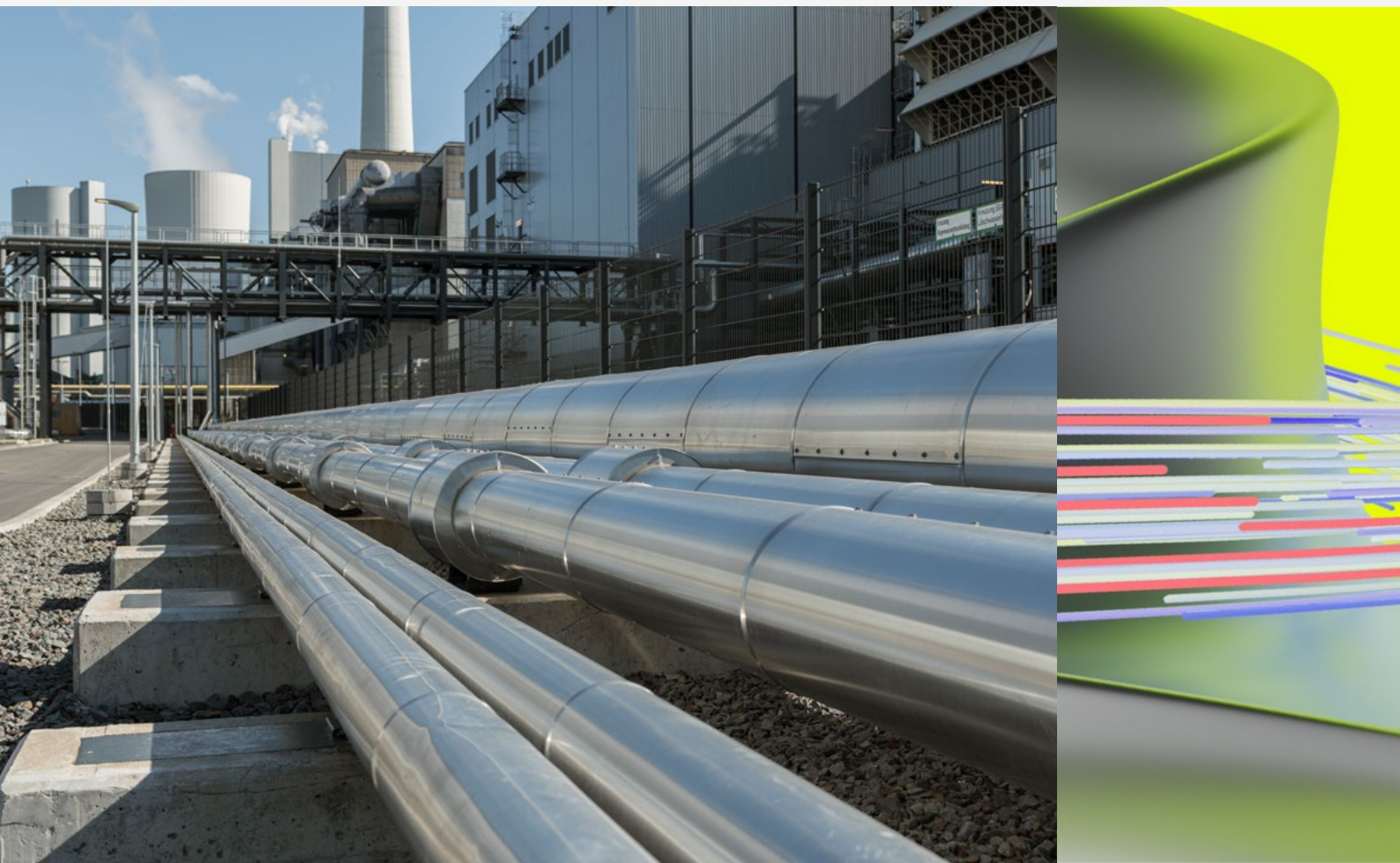


Intelligent Soot Blowing Management

SR::BCM by Iqony optimizes the cleaning of the heating surfaces in coal-fired steam generators, thus keeping the boiler and unit efficiency at a high level. Owing to the application of a detailed thermodynamic model, additional information that cannot be measured directly is provided.



In coal-fired steam generators, the ash content of the coal regularly leads to a fouling of the heating surfaces and thus to a deterioration of the boiler efficiency. For the power generation from coal to be as efficient as possible, this fouling has to be removed by means of soot blowing. The fouling speed and type and effects of the fouling differ depending on the fuel composition, the position of the heating surfaces in the furnace, and the current operating conditions. SR::BCM is an intelligent system for the automatic optimization of the cleaning of the steam generator's heating surfaces that considers all adverse effects on the heating system.

SR::BCM is based on advanced process control uses predictive model based on first principle & fuzzy logic. SR::BCM exclusively uses existing performance values as a basis of information for determining the current condition of the steam generator in detail. A prominent feature is the possibility to freely configure the cleaning strategy, which allows to define different criteria for the optimization. An appropriate cleaning strategy by means of SR::BCM allows to reduce the reheat spray flow and/or to stabilize the hot reheat steam temperature.

