

### Kiel – Waste Incineration System

**LOCATION:** Kiel, Germany

**SERVICES:** Project management, Basic-engineering and pre-engineering

**INDUSTRY BRANCH/TYPE OF PLANT:** Power Generation, Waste incineration systems

**CLIENT:** Müllverbrennung Kiel GmbH & Co. KG

#### TASK

Preparing a study on optimizing the combustion power controls with the following objectives:

- Reducing the fluctuation range of steam production
- Ensuring burnout on a sustained basis
- Optimizing the control behavior of the air ducting

#### CONTENTS OF THE CONCEPT STUDY

- Analysis of the existing combustion power controls
- Plant assessment
- Operating data evaluation
- Process analysis
- Process engineering analysis of the information
- Carrying out test runs
- Identification of weak points

#### SUMMARY OF THE CONCEPT STUDY PREPARED

- Optimization of the existing combustion power controls
- Concept for optimized combustion power controls
  - Stable steam production
  - Stabilization of the control system
  - Constant flue gas volume
  - Ensuring burnout
  - Safe burnout even with poor quality refuse
  - Improvement in plant effectiveness
  - Reduction in manual interventions
  - Operating method to reduce strain on the plant

#### POINTS OF CONTACT



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