



Case Study

Customer: RWE Power, Hambach opencast mine

Branch: Energy and Mining

Project: Weak point analysis hoisting

Background

Even a short standstill in hoisting can cause enormous subsequent costs. Due to more complex production processes, RWE decided to implement an automatic alarm and visualization system. Thereby, breakdowns and possible downtimes shall be reduced to a minimum.

In addition to the visualization and analysis of occurring failures, the increasing transparency with regard to the occurrence of failures was another important goal with the implementation of the system. Thus, targeted measures can be taken.

Solution



Image: use of a bucket wheel excavator for surface mining in Hambach

In addition to the local visualization systems of the automation technology on the hoisting systems, the approx. 120 control systems are connected to the supervisory system Legato. The connection is provided event-controlled via TCP/IP.

In addition to the current fault messages, key figures such as meters, quantities and availabilities, as well as a comprehensive message archive, can also be accessed. In order to simplify the analysis of weak points, all values can be exported to Excel files and thus be analyzed and graphically displayed.

Benefits

- Transparency for weak point analysis
- Overview of automatic switching operations
- Display of current alarms and process values
- Central visualization of control systems
- Comprehensive message archive