

PSA Process Control System at the Gypsum Plant Osterode

At a Glance

BACKGROUND

CASEA is owned by the REMONDIS Group and specializes in the production and distribution of bespoke high quality calcium sulfates. The company bundles the experience of the Südharzer Gipswerk GmbH (SHG) with the expertise of the premium RADDIBIN brand. CASEA offers a wide range of products for a whole number of different applications

CHALLENGE

The gypsum plant Dorste was previously controlled by the process control system CEMAT V4. This doesn't match the actual technical requirements any longer. Besides CEMAT V4 is based on SIMATIC S5 and Windows NT4. Spare parts and PC components for both systems are no longer available on the market.

SOLUTION

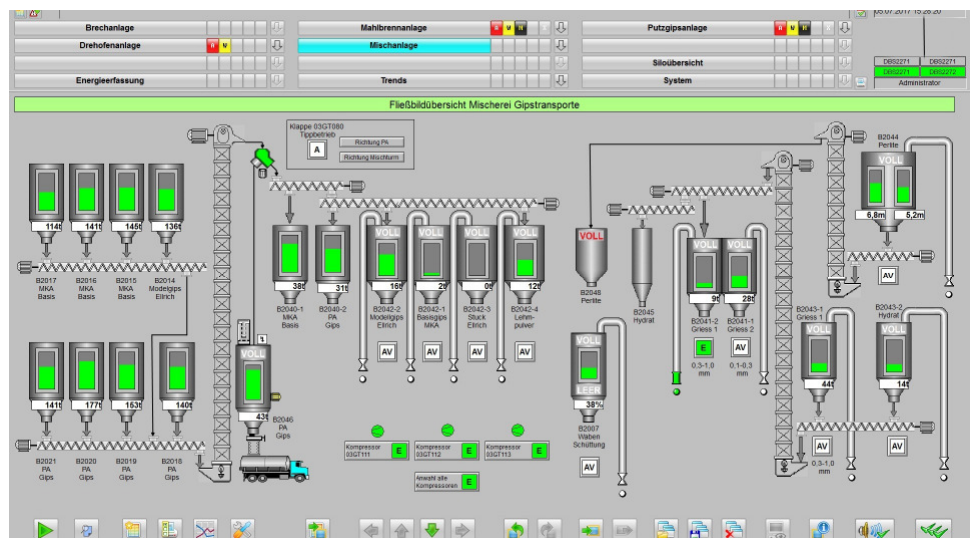
The existing system shall be converted to PSA Process Control System.

Germany's most important gypsum karst region is located at the southwestern and southern edge of the Harz mountains. The extraction and further processing of gypsum rock has a 1.000-year-old-tradition in this region. Gypsum was used in a variety of ways in historical architecture. The quarry of the gypsum plant Osterode was exploited in 1952. The first production facility was started up in 1954 for the first time. Since 2013 the gypsum plant Osterode is part of the REMONDIS Group. The experience of the Südharzer Gipswerke GmbH (SHG) and the expertise of the premium RADDIBIN brand have been bundled.



Until recently the plant was controlled by the process control system CEMAT V4. Today this system is outdated. There is no more replacement equipment available for its basis SIMATIC S5. The first step in modernization was carried out in June 2016. PSA – Gesellschaft für Automatisierungs- und Integrationstechnik mbH shifted the system to SIMATIC S7 PSA PCS. The second and third step of this conversion was undertaken in October 2016 and completed in March 2017.

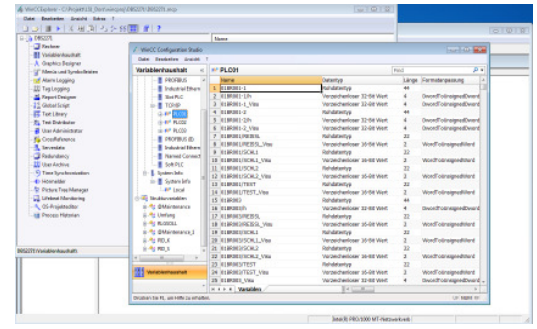
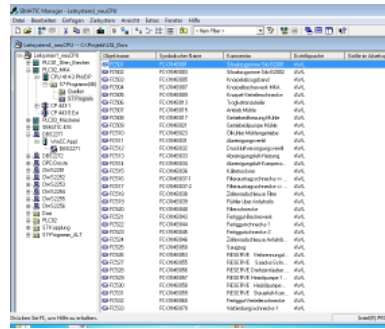
CASEA is a strongly customer-oriented company and places a targeted focus on the individual needs and requirements of its customers. To achieve these targets a long-term perspective and efficient production processes are required, which in the plant in Osterode can be conducted and controlled using PSA PCS.



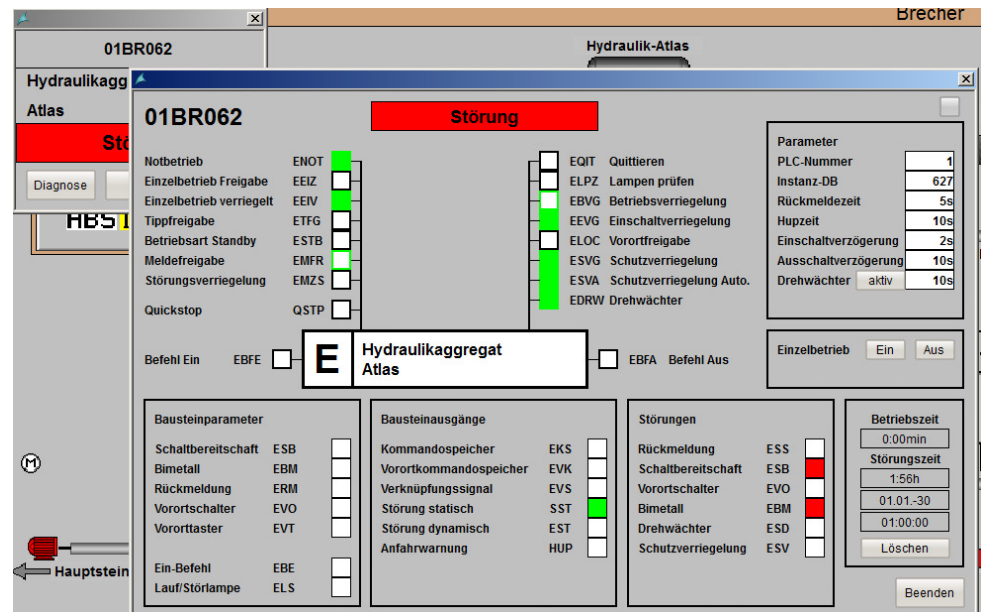
ADVANTAGES

- rapid and simple engineering
- reliable software adapted to each customers individual requirements
- detailed programming instructions prevent software patchwork
- standardized interfaces
- rapid commissioning
- simple operation
- rapid troubleshooting
- detailed status report before starting the system prevents drives and drive units from gratuitously running

contributed to a process control system that fulfils all requirements of the gypsum industry. Especially adapted to the customer's needs, PSA PCS can be used in many areas. Based on Step7 und WinCC PSA PCS uses standardized program components. The open structure allows modifications and additions by trained and skilled personnel.



In our developing work we had a specific focus on simple operability and extensive diagnostic features. The user-friendly interface leads to a high level of acceptance by our customers. The efficient error diagnosis minimizes downtime. In case of a malfunction, electrical engineers and mechanics are able to remove the error quickly via a detailed error display.

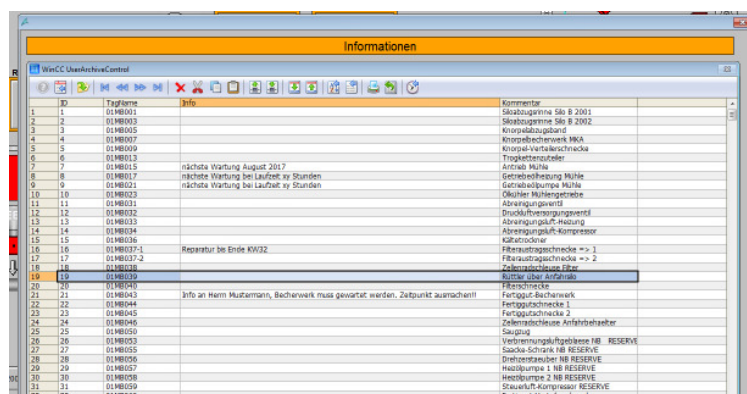


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Additionally, preventive maintenance work can be planned and carried out via resources information such as the runtime of a device. All these features contribute to a smooth production process.



PSA – Gesellschaft für Automatisierungs- und Integrationstechnik mbH has been providing maintenance services for over 20 years and thereby ensures that the technical configuration is always up to date.