



SOLUTION NOTE

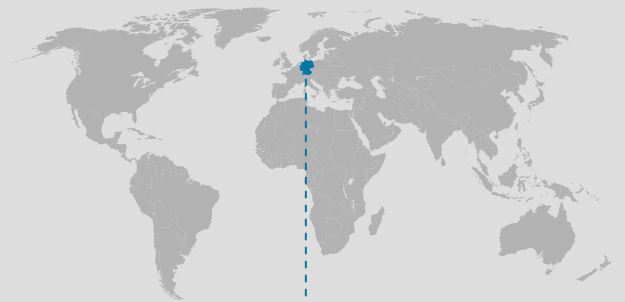
HEADQUARTERS FOR RHEINENERGIE Cologne (Germany)

SN-RHEINENERGIE-EN-0514

NEW HEADQUARTERS FOR RHEINENERGIE ELECTRIC POWER SUPPLY SOLUTION

RheinEnergie, a German utility company, built its new headquarters in a park area of Cologne in a construction time of more than two years. The new complex of buildings accommodates 1900 employees, a customer and conference centre and the investment adds up to 100 million Euros. The inauguration was done in 2012. As soon as the new building was in use, the 30 years old former headquarter building was knocked down, because it could not fulfil modern requirements. In contrast, the new building incorporated both economic and ecological advantages. An ergonomic and process-optimized working environment according to latest findings in the area of office work was designed for the employees. The customer centre was located in a special building. A day care facility for employee's children, a fitness room, rest areas and medical service was also integrated in the complex of buildings. Even before start of construction the new building got it first award for sustainability.

YEAR » 2010
CLIENT » RheinEnergie
LOCATION » Cologne, Germany
SOLUTION » GAE630 switchgear
N. OF PANELS » 18
SEGMENT » End Users (E3U) - Leisure Building



ORMAZABAL GAE630:
 FIXED MOUNTED, SINGLE BUSBAR,
 GAS INSULATED SWITCHGEAR UP TO 24 KV

Switchgear Types:
 LOAD BREAK SWITCH (K)
 FUSE PROTECTION (TS)
 METERING (M)



THE CHALLENGE AND THE SOLUTION

Two corner stones of the ecological concept are ventilation and isolation. In addition, 95% of heat and 85% of cooling will come from renewable energy sources. Actually, RheinEnergie is building a big geothermal plant in Cologne, which energy will also be used for the new headquarters.

Furthermore, only materials are used which are produced with energy-saving processes, are contaminant-free and could be recycled. RheinEnergie also invests in building automation: intelligent lighting technology, sound-adsorbing floors, special ceilings and electrical door opener.

Electric Data:
 12 kV – 630 A – 20 kA

Scope of Supply:
 18 Panels

RheinEnergie chose Ormazabal medium voltage products to safeguard the power supply of the state-of-the-art headquarters.

The units were equipped with protection equipment from Areva and Eberle and a multi-function meter with PROFIBUS connection. Furthermore, the cubicles were remotely monitored and controlled

CUSTOMER KEY BENEFITS

- High reliability, reduced maintenance needs
- High security of supply
- Climate resistant
- Maximum personnel safety
- Simple and robust design and operation
- Flexibility to integrate customer specific equipment