The process for the regional utilization of sludge was developed and realized by a local energy provider in Germany. The goal was the environmentally friendly utilization of sludge in a combined factory of a biomass power plant and a mineralization system. This combination is unique in Germany and even in Europe and it is often mentioned as a role model.

The KSV GmbH operates the 9 MW biomass power plant which produces electricity and heat. The electricity is fed into the local network and is refunded according to the German law for renewable energy. The heat is sold to local companies and it is also used to dry the sludge. The system processes the sludge by extracting the heavy metals via the mineralization process. leftovers are used in road construction or in the cement industry. Thus, the company could avoid cost intensive investments in energy supply systems based on fossil fuels (e.g. oil or natural gas) to dry the sludge.

**KSV KLÄRSCHLAMM VERWERTUNG BIOMASS POWER PLANT**

The Ormazabal product line CPG.0 could fulfill all technical specifications.

**Electric Data:**
24 kV – 1600 A – 25 kA

**Scope of Supply:**
6 Cubicles

The units where equipped with current and voltage transformers, motorization and protection & automation equipment. Using this equipment, a secure electrical power supply was guaranteed in the biomass power plant.

Thanks to Ormazabal Solution, the client obtained the following benefits:

- Internal arc withstand in all compartment
- High safety, reliability and continuity of service
- Modularity and extensibility on both sides
- On site installation without gas manipulation (sealed assembly)