> As a project manager, partners who work quickly and reliably are a real plus.
>
> **Alexander Pils**
> Project manager at GE

High precision – even under tight schedules

Power transmission

in motion | under load | between materials | in tight spaces

High-current connections had to be designed for the generators at a hydroelectric power plant in Austria. Despite time being at a premium, Sefag Components AG ensured that the components were manufactured perfectly to fit and were delivered on time.

The backdrop is picturesque: The Rosegg-St. Jakob hydroelectric power plant is nestled in densely wooded hills in the Drava – a tributary of the Danube. 338,000 megawatt hours of electricity are produced here annually for the Carinthia area and beyond in this run-of-river plant. It was built at the start of the 1970s, with the two huge Kaplan turbines reliably at work ever since. The two generators driven by the turbines have also been in operation since the seventies. By 2016, they were in need of an overhaul.

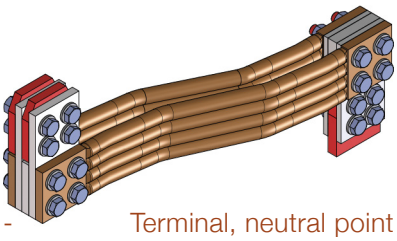
The hydroelectric power specialists from General Electric (GE) in Vienna were assigned with this project. «Aside from the main components, the smaller parts also had to be replaced,» explains technical project manager Alexander Pils. «Some components were showing signs of wear, whilst

others had to be replaced as the space available had changed as a result of the overhaul.» This was the case for the distributor, where the energy produced by the generator flows into the power grid. «We looked for a provider who could replace the braided connectors on the generator and adapt them precisely to the changed spatial conditions.»

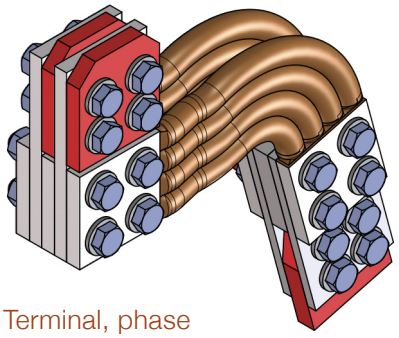
Sefag Components AG ultimately won the contract here. «We also asked some of the competition, but Sefag supplied us with the best and quickest solution,» explains Alexander Pils. The schedule was extremely tight. «We had just under three weeks from our quotation to the delivery of the finished components,» remembers Sefag project manager Jonathan Hausheer. «To save as much time as possible, we sent detailed technical drawings as early as the technical consulting phase.» The design encompassed a braided connector that was crimped in copper terminals and connected with customised brackets. «The design made the installation easier and guaranteed a neat braid layout,» explains Jonathan Hausheer.

Every second counted in production. The terminals and brackets also had to be silver-plated, as is common in high-current connections of this type in order to prevent corrosion and to ensure that power can also be transmitted between different materials.

The components arrived at the building site right on time. It is thus no surprise that Alexander Pils was pleased with how the project was completed. «As a project manager, partners who work quickly and reliably are a real plus. Sefag Components AG was a match made in heaven in this regard. Instead of a standard braid, we now have a tailor-made connector that perfectly meets the requirements of our generator.»



- Terminal, neutral point



Terminal, phase

Tailor-made solutions for individual connection problems in power transmission.
Contact us today!

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