Energy storage for renewable energy austria

Energy storage for renewable energy austria

The storage power plant project, another storage lake and a pumped storage power plant are being built as the second upper stage of the existing Sellrain-Silz power plant group. With this upper stage, the overall efficiency of the power plant group in electricity generation can be sustainably increased.

The additional storage volume increases the flexibility and functionality of the overall system. More available water enables electricity to be produced over a longer period of time; In phases with a lot of generation from solar and wind power, more energy potential is therefore stored in the large lakes at high altitude.

The planned K?htai storage facility will not only store water for pump circulation. By capturing water in the rear of the Stubai Valley and in the Sulz and Winnebach valleys, an additional 260 million kWh of electricity can be generated from natural inflow alone.

Length of the bypass system: around 25 km from the rear Stubai Valley to K?htai

Catchment area: around 68 km2

Electricity generation from nat. Inflow: 260 GWh / year

The K?htai 2 power plant, including the headrace, connects the Finstertal and K?htai reservoirs. The cavern excavated for this purpose is located at a depth of 174 m below the surface. The power plant is designed for combined turbine and pump operation. Up to 90 m3 of water per second will flow through the two machine sets.

The cavern has connections to the outside via an access tunnel and a drainage tunnel. Only the portal of these two tunnels are visible in the area.

AFRY"s assignment covers the execution design of the main caverns including structural calculations, coordination with EM parts, preparation of formwork and reinforcement drawings and a 3-D coordination model of the main structures of the PSPP. The 3-D Model form the basis for the incorporation of the system in a BIM Model.

The overall schedule for AFRY"s services is about 66 months.

"This is a continuation of AFRY"s outstanding experience in the development and design of PSPP globally.

"We are very pleased to continue our good co-operation with TIWAG in executing this important project. "

Contact us for free full report

Web: https://kary.com.pl/contact-us/
Email: energystorage2000@gmail.com
WhatsApp: 8613816583346