



SELECTED REFERENCES

220-KV SUBSTATION PRUTZ – SUBSTATION WESTTIROL, EXCHANGE OF CONDUCTOR CABLE HACIN, LOT 3

Customer: TIWAG

Contract Value: 1,5 million €

Project Start: 03/2011

Project End: 04/2011

The 220-kV line from the substation in Prutz to the substation Westtirol is an important power line for the distribution of energy capacities in Tyrol. The increasing demand for energy, combined with spatial limitations for new overhead lines make it difficult to add new constructions and forces energy suppliers to expand existing facilities by using state-of-the-art cable technology.

The two existing 220-kV lines were upgraded from an A1St 240/40 twin conductor to a HACIN 257/60 twin conductor. Additionally, the fibre optic cables were exchanged along the entire section. The necessary pre-tensioning of the conductors with 55 % of the cable's ultimate load posed an enormous challenge for struc-

tural engineering as well as the installation process. Prior to the beginning of the actual works, the entire section of the line had to be inspected thoroughly to evaluate the current conditions as well as determine the proper measures needed for the expected extraordinary loads on this line.

The experts were facing the challenge to finish all works within a very short time frame of only five weeks because the line could only be shut off for a very short period of time. The works became even more difficult as parts of these works had to be done in sensitive nature reserves in accordance with the respective regulations. VLB Leitungsbau was responsible for this project's installation works and realised this project with a staff of 60.



The work carried out by VLB Leitungsbau for this project includes the following:

Pre-tensioning and installation of 120 km of cable

Installation of 300 tension string sets and suspension pole sets

Installation of 60 pulley cables

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