



NEURON 4 CONSULT ZT
 PELIKANSTR.18, 4061 LINZ-PASCHING, AUSTRIA

ALTO MAIPO HYDRO SCHEME, CHILE
HYDRO SCHEME WITH UNDERGROUND POWER CAVERNS



CLIENT / OWNER : STRABAG / AES GENER



LAYOUT OF THE PROJECT WESTERN FORM SANTIAGO



CONVENTIONALLY EXCAVATED TUNNEL VL1

PROJECT DESCRIPTION

The hydroelectric project of Alto Maipo is located 60 km southeast of Santiago city and it involves the construction of two hydroelectric power plants, called Alfalfal II and Las Lajas, arranged in hydraulic series and producing 531 MW with water coming from intakes over 70 km of tunnels and returning water to Rio Maipo canyon.

GEOMETRY

Hydropower scheme constructed for 531 MW capacity and tunnel length L=50 km whereas :
 35 km excavated with TBM, 35 km conventional tunnels.
 2 underground caverns



RAISE-BORING EXCAVATION UNIT FOR SHAFTS



HARD ROCK OPEN TBM FOR L1 TUNNEL



INTAKE LAKE EL YESO

SERVICES PROVIDED

Co.630/620A - Final design and construction follow-up and assistance to the Contractor during the construction of the hydroelectric plant Alto Maipo with the project value of 490 mill. USD\$. (Strabag).

Co.620B/610 - Final design of surface structures for contracts 620B/610. with the project value of 290 mill. USD\$. (Hochtief-CMC JV)

Period of work: 09/2013 – 05/2015, 2017

Design and construction supervision services: 10.2 mill.EUR