



# HYDROELECTRIC POWER PLANT TUNNEL,

20.06

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# Hydroelectric Power Plant Tunnel

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2014

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During construction of the headrace tunnel in July 2012 for a hydro power plant some severe rockburst occurred. The high internal stress in the rock and overburden over 1000 m on top of the tunnel as well as the brittle metamorphic character with a rock mass rating RMR > 65 caused some severe problems during the project.

The tunnel was divided in sectors to analyse the stress level in regard to the *high stress classification* whereas it shows that some rockbursts of level 2 and 3 occurred. In the most critical zone a support system with MINAX® 80/4 was applied in combination with mechanized installation thanks to Geobrugg's MESH A® handler. The installation time had been decreased between 20 to 25% and safety for workers was significantly improved.

Other

GEOBRUGG SUPERCOATING

5000 m<sup>2</sup>

2 m - 4 m

1.5 m / 1.5 m

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**Dane Wagner**

Open Pit Mining / Quarries Business Development Manager

Mobile +1 503 409 9180

Dane.Wagner@geobrugg.com

**Geobrugg**

info@geobrugg.com | www.geobrugg.com

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