



Success Story

GEORGIA LAKHAMI HPP PROJECT





In Georgia Lakhami Hydroelectric Power Plant project; a total of 18 MW energy will be produced, 10.8 MW on the HPP-1 Lower Stage line and 7.2 MW on the Upper Stage line on the HPP-2. GRP pipes that the pressure classes are from PN6 to PN32 bar have been preferred. Within the scope of the project, 7022 m of GRP pipes and fittings in DN1400, DN1300, DN1200 and DN1100 diameters, all of which are SN10000, have been used.

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Contractor **Austrian-Georgian Development**

Project Specifications **Hydropower**

Power Plant -1 (Lower Stage) **10,8 MW**

Power Plant -2 (Upper Stage) **7,2 MW**

Total Energy Power **18 MW**

Working Pressure **29,5 Bar**

Pipe Pressure Min - Max **6-32 Bar**

Max. Test Pressure **34,5 Bar**



Stiffness **10.000 N/m²**
DN **1400-1300-1200-1100**

Pipe Type **GRP**

Total Project GRP Length **7022 m**

Angular Deflection **1.0°**

Start – Finish Date **2019-2020**



Superlit has full responsibility in all applications from pipe shipment to site hydrotesting. Pipe installation, fully backfilling works, pipe shipment and mechanical connection of all flanged connections were successfully applied by Superlit site team. Since the project is located in the riverbed area, a special design has been made and the drainage material and geotextile are laid on the bottom of the trench.





The pipeline, which has a total length of 7022 m was successfully completed in 8 months during the difficult period of winter conditions and being located on the riverbed. Leak performance test on installed GRP Pipeline has been performed at 34,5 bar at sections for the pipe class bewtween 6 -32 bar and energy production at the power plant has started as of October 2020.

SUPERLIT is proud to be a part of the energy sector in Georgia and to be involved in major projects.

