

“Búrfell Extension HEP”



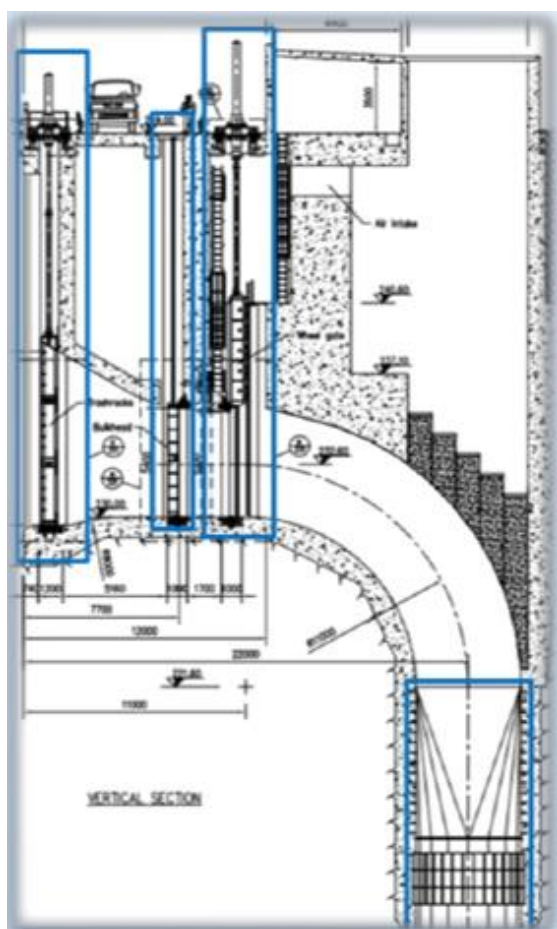
In March 2016, the Icelandic energy group Landsvirkjun awarded DSD NOELL GmbH with a contract for the construction of the gates and penstock of "Búrfell Extension HEP", which is located around 100 km east of the capital Reykjavik.



The construction of "Búrfell Extension HEP" was commenced in spring 2016, commissioning is scheduled for late April 2018. As the existing 270 MW power station, the new power station will be operated by water from Bjarnalón reservoir and have a capacity of 100 MW, generated by one single turbine.

Each year, "Búrfell Extension HEP" will feed about 300 GWh into the grid and hence improve both supply reliability and grid flexibility.

The supplies and services to be performed by DSD NOELL GmbH comprise the elaboration of the design, the manufacture, delivery, installation and testing of the following components:



- 1 intake trashrack (clear dimensions 7 x 8.6m) with frame, guide rails, lifting beam, lifting structure, hydraulic drive system and electrical control unit
- 1 inlet stop log (two-part structure, clear dimensions 5.4 x 5.4m) with frame, guide rails and lifting structure
- 1 inlet gate (clear dimensions 5.2 x 5.2m) with rollers, frame, guide rails, lifting beam, heating elements, hydraulic drive system and electrical control unit
- 1 vertical penstock including a 90°-bend, thrust rings and stiffeners (total length: 128.5m; diameter: 5.2m, tapering to 3.7m upstream of the turbine)
- 2 outlet gates (three-part structure, clear dimensions 5 x 5.8m) with frame, guide rails, lifting structure and gantry crane
- 1 Ultrasonic flow metering system

