



The power plant uses the height difference between Thorisvatn and the reservoir for the power plant at Sigalda. This power plant is unique for that it is only in operation during the winter months, when water is being directed from Thorisvatn to Krokslon.

**Main quantities:**

Excavation 2.000.000 m<sup>3</sup>  
Backfill 500.000 m<sup>3</sup>  
Concrete 37.000 m<sup>3</sup>

**Dams:**

Total length 1130 m  
Main dam length 750 m  
Max height of main dam 30 m

**Power and energy:**

Design height of water fall 64,6 m  
Power: 2 x 45 MW, Francis  
Energy 430 GWhr/Yr

IAV built the powerhouse, switch gear building, structure for water inlet and control, the water canal, the overflow structure and the dams.

*Customer*

Landsvirkjun

*Project start*

July 1999

*Project manager*

Johann G. Bergthorsson

*Structural and mechanical engineering*

Honnun now Mannvit engineering

*Mechanical and electrical engineering*

GE Hydro & Clemessy

*Architects*

Glama-Kim

*Project finish*

Sommer 2002

*Site managers*

Agnar Strandberg

Jon Levi Hilmarsson

Adalsteinn Hallgrímsson

*Electrical engineering*

Rafhonnun now Mannvit

*Project supervision*

Lahmeyer International

VSO consulting

Almenna consulting Engineers

