FACT SHEET



Facts and figures on the Spitallamm dam

NEW DAM WALL

Type: double curvature dam **Costs:** approx. CHF 125 million

Construction time: from May to October 2019–2025 **Submission of application for planning permission:**

May 2017

Start of construction: June 2019

80000

cubic metres foundation excavation



Visualisation of the new Spitallamm dam, including the old dam wall

Height: 113 metres **Crest length:** 212 metres

Foundation: rock

Volume of concrete: 220 000 cubic metres

No reinforcement

approx. 100 workers

engineers, site supervisors, foreman, miners, masons, mechanics, explosive experts, machine operators, etc.





520000

tonnes of concrete will be used

CHALLENGES

- · Construction site at 1,900 metres above sea level
- · Weather conditions
- · Exacting logistics

Executors

Grimsel joint venture

Frutiger AG (main responsibility): 42.5 percent

Implenia Schweiz AG: 42.5 percent Ghelma AG Baubetriebe: 15 percent

Estimated share of added value

Oberhasli: approx. 10–20 percent Canton of Bern: approx. 50–70 percent Switzerland: approx. 70–90 percent

Alte Mauer siehe Rückseite

OLD DAM WALL

Type: arch-gravity dam

Costs: CHF 21.6 million (for Spitallamm and Seeuferegg)

Construction time: 1925–1932

50000

cubic metres foundation excavation



Old Spitallamm construction site

Height: 114 metres **Crest length:** 258 metres

Foundation: rock No reinforcement

Cable cranes with launders

338000

cubic metres volume of concrete (cast concrete)

SPECIAL INFORMATION

- · Pioneering achievement in the 1930s
- · The old dam wall will be flooded in 2025

Executors

Bauunternehmung Grimsel-Staumauern A.G. O. & E. Kästli, Bern

Bürgi, Grosjean & Co, Bern A. Marbach, Bern

J. Frutiger's Söhne, Oberhofen

Data on Lake Grimsel

Impoundment volume: 94 million cubic metres
Drainage area: 89.5 square kilometres

Lake surface area: 272 hectares
Lake length: 5.3 kilometres

Origin of the name "Spitallamm":

Lamm = Klamm ("gorge"), "a rock cleft hollowed out by the throughflow of water, narrow passage of a brook or river, ravine"*

Spital or Spittel = ("hospital"), "institution for the admission, catering and care of those in need of help"*, e.g. a hospice

*as per the "Schweizerisches Idiotikon" ("Swiss dialect dictionary")