



Pumped storage power plant Limberg III

## **Doka supports major dam raise in Austrian Alps**

**Amstetten, September 2025 |** The Wasserfallboden Dam in Kaprun, Austria, is being raised by nine meters to create the foundation for the new Limberg III pumped-storage power plant. The facility will provide 480 MW of flexible additional capacity to strengthen Europe's renewable energy supply. Doka delivers the formwork and scaffolding solutions that ensure precise and safe construction under extreme high-alpine conditions.

The Kaprun power plant group is often described as the "battery of the Alps" because of its enormous storage capacity and flexibility – and it will play an even greater role in stabilizing the grid in the future. By 2027, the Wasserfallboden Dam, also known as the Limberg Dam, will be raised by nine meters to nearly 129 meters. This will increase the usable reservoir volume by 12.7 million m<sup>3</sup> to a total of 93.9 million m<sup>3</sup>.

### **High-performance technology in high-altitude construction**

The works are taking place at 1,700 meters above sea level – an environment with sub-zero temperatures, wind speeds exceeding 100 km/h, and extraordinary logistical challenges. To meet these demands, VERBUND, Austria's leading electricity company, relies on Doka's expertise in dam construction. Thanks to 3D planning, pre-assembly and optimized logistics, concreting cycles have been significantly accelerated, achieving around 260 m<sup>3</sup> in just three days.

The Top 50 large-area formwork enables precise shaping of the curved dam blocks, while the D22 dam formwork ensures safe load transfer. Over 700 running meters of folding platform K provide reliable and safe working conditions. For installation and assembly works at the control center, 22 tons of Ringlock modular scaffolding were set up, serving as stair towers and flexible working platforms. In parallel, Doka also supports the construction of the underground cavern for the new Limberg III power plant, which was commissioned on 12 September 2025.

### **Strategic significance for Europe's energy transition**

Limberg III represents a €500 million investment by VERBUND, to strengthen energy independence and supply security. Pumped-storage power plants (PSPs) act as large-scale energy storage systems: they pump water to higher reservoirs during times of excess renewable generation and release it during demand peaks, stabilizing the grid. All three Limberg power plants – Limberg I (1950s), Limberg II (2011) and the upcoming Limberg III (2027) – are independent PSP units within the Kaprun group, jointly supplied by the high-alpine reservoirs Wasserfallboden and Mooserboden.

With the additional storage capacity, the Wasserfallboden reservoir will gain around 30 GWh – equal to the annual electricity use of approximately 6,000 households. Together with the additional 480 MW, Limberg III will provide vital balancing capacity to offset fluctuations from wind and solar power.

*"This project highlights how Doka solutions contribute to the global energy transition. Here in Austria's high-alpine environment, our technology and teams enable safe, efficient and reliable execution – even under the toughest conditions,"* says Harald Zulehner, Managing Director Doka Austria.



### Project Facts

- **Project:** Wasserfallboden Dam raise, Limberg III pumped-storage power plant
- **Location:** Kaprun, Austria
- **Structure type:** Arch dam
- **Client:** VERBUND Hydro Power GmbH
- **Construction (dam):** Swietelsky AG
- **Construction (overall project):** PSKW ARGE Limberg III (PORR and Marti Tunnel AG)
- **Project duration (dam):** 2024–2027 | Doka solutions in use 2025–2026
- **Systems used:** D22 dam formwork, Top 50 large-area formwork, Folding platform K, Ringlock modular scaffolding

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### **Bilder:**

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The “Limberg Dam” in Kaprun is being raised by nine meters with the support of Doka solutions.  
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Using D22 dam formwork and complementary systems, Doka provides the solutions for precise concreting in high-alpine environments. © Doka



The dam raise increases the Wasserfallboden reservoir's capacity by 30 GWh – enough to supply the annual electricity demand of around 6,000 additional households. © Doka

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#### **About Doka**

Doka is a world leader in providing innovative formwork, solutions and services in all areas of construction. The company is also a global supplier of well-thought-out scaffolding solutions for a varied spectrum of applications. With more than 180 sales and logistics facilities in over 58 countries, Doka has a high-performing distribution network for advice, customer service and technical support on the spot and ensures that equipment is swiftly provided – no matter how big and complex the project. Doka employs 9,000 people worldwide and is a company of the Umdasch Group, which has stood for reliability, experience and trustworthiness for more than 150 years.

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