

Deep below ground lies an opportunity

Deep underground mines generate enormous water pressure. The question is whether that energy is wasted or recovered.

Pelton turbines convert high-pressure water into usable energy while reducing pressure within the system. Installed deep underground, they transform a necessary process into an opportunity to recover value.

Maximizing energy recovery starts with maximizing turbine performance. Through precision refurbishment, engineering expertise and proactive field support, we help operators recover more energy, extend asset life and keep critical Pelton turbines performing for longer.



Pelton turbine services

Supporting energy recovery through precision engineering

Refurbishment solutions

The geometry of performance

The difference between a successful refurbishment and a short-lived repair often comes down to tenths of a millimetre. Restoring bucket geometry accurately is a specialist engineering task that directly influences performance, wear and turbine life:

- Bucket restoration and profiling
- Precision machining
- Specialist welding and build-up
- Bearings, shafts and seals
- Tungsten carbide coatings



1. Wear and erosion visible across multiple buckets



2. Bucket geometry restored through refurbishment

Performance optimization

Small adjustments, longer life

Regular inspection and adjustment can significantly extend service intervals and reduce the risk of premature wear:

- Alignment verification
- Nozzle inspection and adjustment
- Bearing inspections
- Seal inspections
- Performance assessments

Field service support

The value of early intervention

Planned maintenance interventions help identify developing issues before they become major outages. Small, regular interventions can significantly extend operating life while reducing the risk of major repairs:

- On-site inspections
- Planned maintenance programs
- Condition assessments
- Outage support
- Installation and commissioning

The opportunity lies in the details.



3. Refurbishment complete, ready for final coating

How can we help you?
Contact us today to find your
best solution.

[sulzer.com](https://www.sulzer.com)

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