

REFURBISHMENT

ADVANTAGES

- Prolongation of the power plant lifecycle (e.g. new corrosion protection)
- Assurance of a sustainable and cost-optimized energy production
- Optimization of the performance and the ecological benefit
- Increase of the annual energy output via implementing a state of the art power plant controlsystem (HEROS)
- Increase of efficiency and annual output
- Reduction of ongoing maintenance and repair costs

RANGE OF SERVICES

- Revitalization of the entire hydro power plant
- Designanalysis and optimization
- Replacement/repair of runners and other plant components (sealing, wear parts, bearings,...)
- Revitalization/renewal of the management and -controlsystem and electrical equipment
- Optimization of the runner geometry
- Efficiency improvement



Visionary power. Wherever you want.



REFURBISHMENT

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REFURBISHMENT PROCESS

EVALUATION & DIAGNOSIS

As a reliable partner we evaluate every power plant at site before starting the rehabilitation. Together and in close cooperation with our customers we develop the best fitting concept for a sustainable and cost efficient refurbishment of the hydro power plant. A substantial part of the initial inspection is the identification of all possibilities with the effort to develop a focused plan which takes all opportunities and challenges of the existing infrastructure into account.



OPTIMIZATION OF THE POWER PLANT



During the disassembly a detailed diagnosis of each component is prepared. The established concept is constantly being scrutinized and – if necessary – adapted. This process guarantees a professional handling of all unforeseeable challenges. The optimal operation of the hydro power plant is achieved by replacing the management and control equipment with our state of the art power plant control-/automationsystem (HEROS). This also leads to a higher annual energy output.

CONSTANT MONITORING

In accordance with GLOBAL Hydro's quality standards we always work to verify and improve our product and service offering. With our monitoring program wear-related faults in the hydro power plant can be detected early and repaired. In combination with our alarm system a very short reaction time can be guaranteed thereby increasing the availability of our customers' power plants.



CONCEPT DEVELOPMENT



Every hydro power plant is unique. Therefore we offer customized and demand-oriented solutions for the optimization of the plant – starting with the inlet to the building and ending up at the discharge of the plant. With the support of our research and development department we compile detailed solutions for all components of the power plant. Furthermore, we offer plant measurements with the required documentation to define the actual efficiency and to verify a performance increase.

RE-ASSEMBLY & COMMISSIONING

Aligned with the project execution of new hydro power plants we also offer the necessary project management including transportation of the equipment, the complete re-assembly and commissioning for our refurbishment projects. The commissioning is executed in close cooperation with the operator of the hydro power plant. Additional training sessions for the operating team are organized in coordination with the operator and conducted at site or in our academy in Niederranna.



SERVICE & MAINTENANCE



We offer extensive service & maintenance possibilities for all hydro power plants and therefore established a 24/7/365 service hotline. We have a worldwide network of "Certified Service Partners" and subsidiaries with a local spare part storage system. This network guarantees a fast and reliable supply of spare parts for our customers all over the world.