

Refurbishment of Hydro Power Plants

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HPP Rama, Refurbishment of generator rotor
Upgrade from 90 to 100 MVA



Obsolescence and worn out condition
of the equipment?
Decrease of power generation?
Lower profitability of HPP?



HPP Zakučac, Works on generator stator
Upgrade 2 x 120 MVA & 2 x 150 MVA to 4 x 160 MVA

Refurbishment enables:

- continuance of the generation in a safe manner at acceptable investment

Refurbishment comprises all the parts of a HPP:

- civil engineering parts
- hydro-mechanical equipment
- electric and mechanical equipment

Main possible approaches to refurbishment:

- Extension of the hydro power plant life time
- With increase of the output power or upgrade.

Necessary financial investment
Requirements set by legal provisions, electric power market and system, operation and maintenance



HPP Zlatoličje upgrade from 74 MVA to 85 MVA

