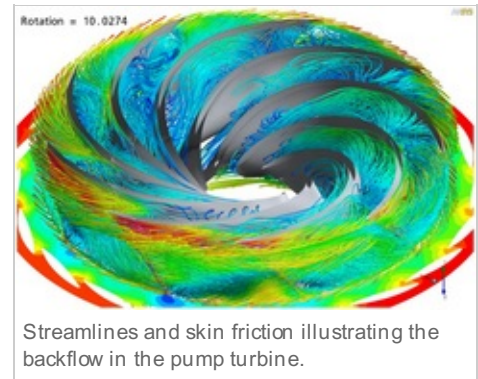


# Modern Methodologies for Design, Manufacturing and Operation of Pumped Storage Power Plants (HydroNet) \*\*

## Scope of project

Electricity production in Switzerland relies heavily on hydro power plants, which face new challenges due to the strong increase in short-term energy trading.

Modern power plants are expected to operate at variable speed in a wider range of output power with improved efficiency, flexibility and safety. To address these challenging issues, our network aims to converge towards a consistent standardized methodology for design, manufacturing, operation, monitoring and control of pumped storage power plants in order to give new impulsions in the hydropower technology.



The focus is put on operation and maintenance with respect to the new economic environment. Besides the generation units, civil engineering and sedimentation issues as well as economical aspects are considered.

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\*\* ) Finished project

<http://www.ccem.ch/hydronet>