

# **Development of a systematic approach for the data collection and assessment of hydro-electric equipment during site inspections**

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## **Abstract**

Facing the challenges of a modernization or upgrading project site inspections are a valuable information source to minimize risks and optimize the scope work. The procedures and outcomes of site inspections are rarely described in some international guidelines (e.g. IEC, IEA, EPRI) and mostly dependent on the experience of the executing staff.

With the development of a systematic approach supported by a software tool a comprehensive database of the hydro-electric equipment of a hydropower unit was created enabling a structured execution of the inspection and increasing the objectivity of the result.

The paper will described the background and the basic concept for the development of the database and discuss the usability in different project phases.