RENRISK. IDENTIFYING THE BEST PROJECT.



RENRisk

RenRisk – ILF's self-developed software tool for optimizing hydropower projects - identifies the best possible project option and simultaneously optimizes technical, economic and risk aspects, thus creating certainty for all involved stakeholders.





economic return and to determine the associated risk profile.

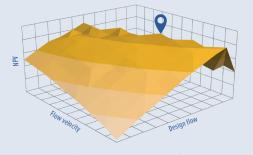
SUCCESS STORIES



HEPP INDONESIA	INITIAL LAYOUT	RENR isk LAYOUT
Installed capacity	10 MW	10 MW
Expected CAPEX	USD 19.4 MM	USD 20.1 MM
Construction time	24 months	18 months
Internal Rate of Return	23.5 %	25.7 %
RENRisk NPV	USD 12.0 MM	USD 15.7 MM

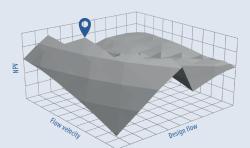
INCREASING NPV BY MORE THAN

30%



HEPP PERU	INITIAL LAYOUT	RENRisk LAYOUT
Installed capacity	420 MW	172 MW
Expected CAPEX	USD 830 MM	USD 395 MM
Construction time	48 months	36 months
Internal Rate of Return	6.8 %	13.0 %
RENRisk NPV	USD – 116.8 MM	USD 146.0 MM

INCREASING NPV BY MORE THAN USD 260 MM

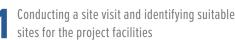


HEPP CHILE	INITIAL LAYOUT	RENRisk LAYOUT
Installed capacity	45 MW	43 MW
Expected CAPEX	USD 211 MM	USD 128 MM
Construction time	42 months	23 months
Internal Rate of Return	8.8 %	14.1 %
RENRisk NPV	USD – 23.3 MM	USD 62 MM

USD 85 MM

INCREASING NPV BY MORE THAN

THE RENRISK APPROACH INCLUDES THE FOLLOWING STEPS



Selecting the project layouts to be evaluated by **RenRisk**



Collecting base data relating to hydrology, geology and market aspects

Running **RenRisk** includes:

- Automatic variation of the main parameters (e.g. design discharge, dam height, water velocity in conveyance systems, etc.) of each project layout
- Application of probability functions to the base data to create statistically relevant scenarios
- Identification of the project option with the highest, risk-adjusted economic return, its main technical and financial parameters and the associated risk profile

5 Delivering a tailor-made and optimum project to the Client

BENEFITS UTILIZING RENRISK

- Clear identification of the best possible project
- Replacing uncertainty with certainty
- Optimization of the project based on NPV
- Optimized basis for bankability
- Minimization of risks





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