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HORIZON EUROPE

INTRODUCTION ILF



10,500+
PROJECTS
SUCCESSFULLY EXECUTED

150+
COUNTRIES IN WHICH ILF HAS
BEEN SUCCESSFUL

45+
OFFICE LOCATIONS
ACROSS FIVE CONTINENTS

Tailored interdisciplinary engineering, consulting and project management services for complex industrial and infrastructure projects

55+
YEARS OF
EXPERIENCE

2,600+

EMPLOYEES

WORLDWIDE

262+

MILLION €

REVENUE

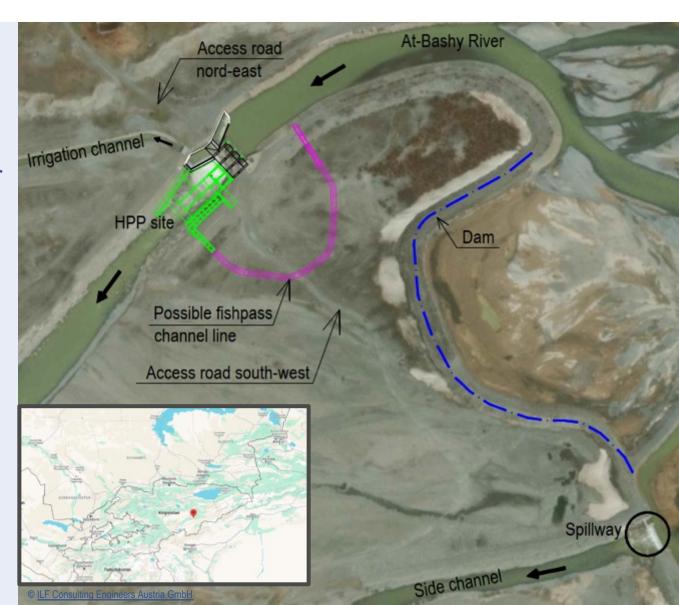
PROJECT INFORMATION'S



AT-BASHY HYDROSHAFT POWER PLANT

Project Background

- » Ideal local conditions for showcasing modular design
- » Existing weir offers space for hydropower modules
- » Renovation needs enhances project benefits
- » Fish migration facilities amplify positive impact
- » Obstacle removal expected to benefit fish fauna



DEMONSTRATION SITE



AT-BASHY HYDROSHAFT POWER PLANT

Country: Kyrgyz Republic

Region: At-Bashy District

River: At-Bashy

Site Parameters:

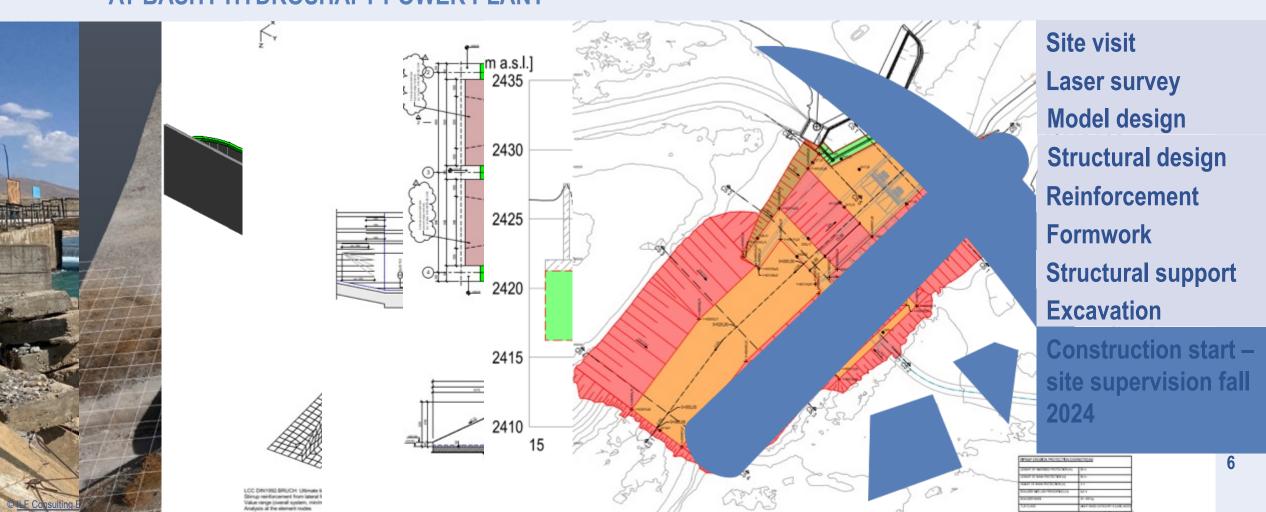
- » Existing Diversion weir with around 7 m head and three pressure segments
- » Emergency spillway for water diversion during construction in place
- » Elevation at 2,400 m



PLANNING DETAILED DESIGN



AT-BASHY HYDROSHAFT POWER PLANT



CONSORTIUM AND ILF ROLE



HYDRO4U – GENERAL INFORMATION'S

- "Hydropower For You" (Hydro4U): stand for small scale hydropower for you
- High potential of small-scale hydropower in Centra Asia
- Adapt innovative European technologies to the Asian market
- Demonstrating viability and price competitiveness
- Focus on longevity, eco-compatibility and socio-political acceptance
- ILF's contribution is related to services requested in:
 - » WP3: Elaboration of the detail design, Geological support and interpretation of the geological site investigation results and site supervision
 - » WP6: Communication, dissemination and exploitation



CONTRIBUTIONS OF PARTNERS



HYDRO4U – GENERAL INFORMATION'S

TUM	Technical University Munich: Technical coordination between consortium and investor, technology development management, object design and hydraulic design of the demonstration site	
HSOL	Hydrological scenarios for current and future conditions with respect to climate change	
BOKU	Ecological assessments related to fish biodiversity and distribution, fish population structure, habitat use, migration, and environmental flows	
TIIAME	Ecological assessments related to fish biodiversity and distribution, fish population structure	1
EV-INBO	Ecological assessments related to the telemetry studies	(
ILF	Support in the design process, expertise on geology and geotechnics, detailed design formwork and reinforcement drawings, site supervision	(
IWMI	Socio-economical assessment according to the Water-Food-Energy-Nexus approach	
GHE	Expertise on electromechanical equipment, powerhouse design	
MUHR	Expertise on hydraulic steelworks design	
SJE/KJC	Support in data collection	

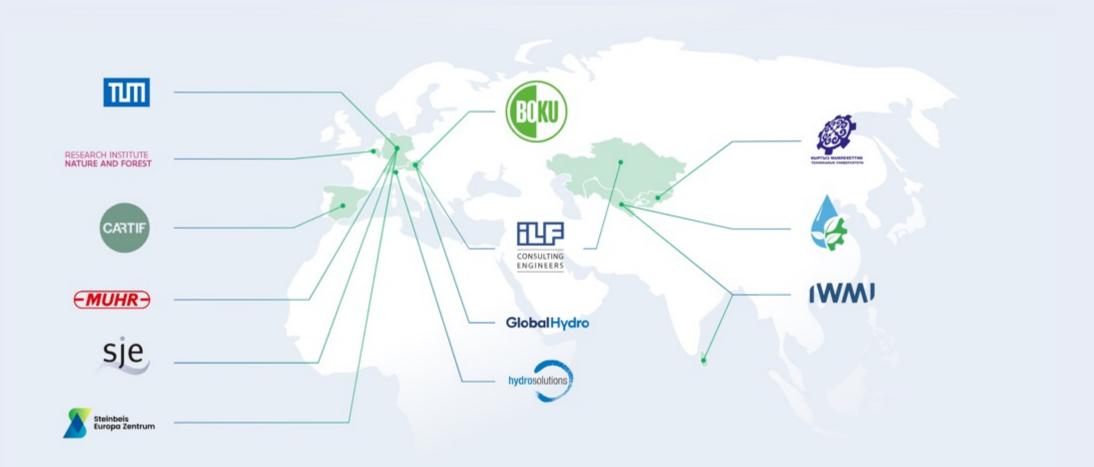


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CONTRIBUTIONS OF PARTNERS



HYDRO4U – GENERAL INFORMATION'S



EXPERIENCE / BENEFITS



HORIZON EUROPE

- Collaboration and networking with international expertise and companies of the business field
- Be informed about the latest status of market development of small-scale hydropower
- Finding new partners
- Experience in innovative engineering solutions
- Potential business development in Central Asia
- ONE ILF
- Sustainability
- Hydro Energy





















