

# HYDROPOWER

## Project Management



(March 31 to April 04, 2025)

## Background and Objective

In response to the dynamic landscape of hydropower development, our upcoming workshop, “Hydropower Project Management,” emerges as a beacon of insight and innovation, addressing the Effective project management which is the cornerstone of successfully delivering projects on time, within budget, and in line with the expected performance outcomes. Good project management goes beyond just leadership and coordination—it also requires a deep understanding of the specific nature, challenges, and opportunities of the hydropower project at hand. This is especially critical in complex sectors such as hydropower development, where a range of technical, financial, and environmental factors must be carefully considered.

The workshop, “Hydropower Project Management,” set to unfold from 31<sup>st</sup> March to 4<sup>th</sup> April, 2025, represents a joint effort between IPPAN and ICH. Established in 2001, the Independent Power Producers’ Association, Nepal (IPPAN), stands tall as a cornerstone for private sector engagement in hydropower development. Serving as an umbrella organization for all private hydropower producers in Nepal, IPPAN fosters collaboration between private entities and government organizations. It facilitates the exchange of technology, expertise, and vital information among independent power producers, knitting a robust network that propels the industry forward.

Simultaneously, the International Centre for Hydropower (ICH) operates on a global scale, uniting companies and organizations involved in all aspects of hydropower generation and supply. Open to those engaged in development, implementation, and operation, ICH elevates industry competence through training courses, promotes hydropower benefits internationally, and serves as an information provider. Advocating for the industry through seminars, workshops, and conferences, ICH is a driving force behind global hydropower advancements.

This collaboration is dedicated for hydropower projects, while offering significant potential for sustainable energy production, which involve unique challenges such as complex regulatory environments, hydrological variables, risk factors, and significant capital investment. A successful hydropower project demands knowledge not only in project management methodologies but also in technical areas like hydrology, cost estimation, risk assessment, and valuation. Furthermore, as hydropower projects increasingly cross borders and integrate into global carbon markets, understanding topics such as cross-border trading and carbon trading becomes essential.

## Target group

- Project Managers & Engineers
- Financial Analysts
- Government Officials
- Private Sector Representatives
- Banking and Finance Professionals
- Legal Professionals



## Course Description

This course is designed to enhance project management competencies within the context of hydropower projects. It will explore the planning phase in detail, with a particular focus on economic and financial evaluation, risk assessment, and the implementation of insurance mechanisms to manage identified risks



## Course Topics

- **Hydropower Basics:** Introduction to the fundamentals of hydropower generation and its importance in sustainable energy development.
- **Hydrology:** Understanding water flow, precipitation, and other hydrological factors that impact hydropower projects.
- **Cost Estimates:** Techniques for accurately estimating the costs involved in hydropower development, from feasibility to execution.
- **Risk Assessment:** Identifying and assessing risks associated with hydropower projects, and strategies to mitigate them.
- **Valuation:** Methods for assessing the financial value of hydropower projects, including cost-benefit analysis and economic feasibility.
- **Project Management Methodology:** Overview of key project management principles and methodologies used in managing hydropower projects.
- **Project Management during Project Phases:** Managing projects through various stages such as initiation, planning, execution, monitoring, and closure.

## Bonus Topics

- **Cross Border Trading:** Exploring the opportunities and regulations around the cross-border trade of hydropower energy.
- **Carbon Trading:** Understanding the role of carbon trading in hydropower projects and its impact on sustainability.



## Learning Goals

Participants will acquire a well-rounded understanding of the hydropower sector and be equipped with the knowledge to effectively manage projects, ensuring they deliver on time, within budget, and to the highest standards.

## Venue and Duration of the Training

**Five days** (March 31 to April 04, 2025)

**Fish Tail Lodge by Annapurna**, Lake Side, Pokhara Nepal

## Application Deadline

7<sup>th</sup> March, 2025



## Expert Speakers & Trainers

Our speakers and trainers are leading specialists with extensive global and regional experience. Joining our courses offers a valuable chance to delve into current issues in hydropower and renewables through discussions with professionals from both the local and international arenas.

## Lecture Titles

- Hydropower Basics
- Hydrology
- Cost Estimates
- Risk Assessment
- Valuation
- Project Management Methodology
- Project Management during Project Phases

## Bonus title:

- Cross Border Trading
- Carbon Trading

## Admission Requirements

- Experience in hydropower project design, construction supervision, or operation
- Hydropower Developers with experience in project development can also apply
- Hydropower investors and financing agencies
- Proficiency in English Language is mandatory

The admission fee of the course is NRs. 30,000.00 for IPPAN Members (Nepalese participants), NRs. 35,000.00 for Non-IPPAN Members (Nepalese Participants) and US\$ 500 for International participants.

The organizers will cover the cost of lectures, materials, accommodation (potentially shared), meals during the training period and necessary travel arrangement from Kathmandu only. Other expenses are not covered by the fee and should be borne by the participants.

**Women are encouraged to apply!**



## Organizers



## Supported by

