

**Energy connects us,  
ICH keeps us together!**



# **SMALL HYDROPOWER DEVELOPMENT**

Module I - ONLINE

**New course!**

May 31st to 4th June 2021



# Introduction



**S**mall hydropower schemes are increasingly on the agenda of governments and developers across the world. While small hydropower is an option for governments to tap the resources of tributaries, the need to better protect the mainstream river systems becomes compromised. It is also a common misunderstanding that small hydropower has less environmental and social impacts than larger schemes. If not planned and managed in a sustainable manner, small hydropower projects can leave behind significant environmental and social footprints.

When planned in cascades and in strategic locations using advanced technology, the benefits can be significant for countries that are aiming to increase their domestic energy capacities.

The proper design of small hydro powerplants can be an environmentally friendly solution and represents a useful alternative renewable energy source, especially for rural areas without developed electricity grids.

***ICH training promotes investment in natural and human capital in an internationally focused course portfolio covering all world regions. This course is a foundation course delivered online, leading to face-to-face training in Norway as soon as international travel is able to resume.***

Understanding essential environmental and economic issues in the pre-feasibility phase of small hydropower will help improve sustainability. Course participants will find solutions for challenging small hydropower projects from a civil, mechanical and electrical engineering perspective. By the end of this course, participants will have better understanding of the benefits of small hydropower projects if environmental and economic issues are addressed early.

All presenters are recognized international experts. Participating in this course is an opportunity to discuss and learn the most relevant topics in the field of environmental and social monitoring of energy projects, with a view to the implementation of excellence in sustainability.





## Course objective

The virtual versions aims to integrate knowledge and reinforce the foundation concepts form a sustainable approach. During this training theoretical understanding and practical insights to for small hydropower plants.



## Target group

The course is aimed to Professionals with medium and high-level management in power companies and public agencies and governments involved in power supply and rural electrification.



## Course content

The course reviews and evaluates the current trends in small hydropower development, encouraging critical thinking on planning from a cumulative perspective.





## Topics

- Governance and Legal frameworks
- Environmental and social risk assessment in different project phases
- International finance and sustainability frameworks compliance
- Hydrology and climate change
- E-flows
- Cumulative Impacts
- Financing Small Hydro, how to make your project bankable.



# Course specifications

ICH objectives in raising the potential and competences for hydropower practitioners and transfer of knowledge, detailed information regarding professional background is a fundamental key for the selection process to attend our training programmes.

Please highlight why the selected training programme will be applicable for your actual job position.

Our Organization policies and academic committee require applicants to give a complete description and relevant information about their job position.

ICH reserves the right to accept or reject any application based on its qualifications and experience.

No applications will be received after the deadline.

Only applications submitted online will be accepted.

Selected participants, as well as those favored with NORAD scholarships, will be notified during the week 19 , May 2021, along with practical information about the course, English proficiency assessment, interview, connectivity test and preliminary program.

**Deadline to submit applications:** 10th May 2021

Candidates must duly complete the forms and send them electronically through the official website of ICH [www.ich.no](http://www.ich.no) exclusively, here the link <https://form.ich.no/>

**Course name:** 202103 SMALL HYDROPOWER DEVELOPMENT : Module I



Course fee  
USD500



## Conditions for Participation

Participation in this remote training will require participants' full engagement and commitment during the course, for at least 6 hours per day. There will be the need for stable internet connection on your computer to enable you, to follow the proceedings of the course fully each day and to submit assignments that will be required. Your supervisor/s should be willing to allow you to take leave for the course as they would do if you were to travel and attend the course in Norway. You will be required to fill-in and submit within the expected time, the evaluation form/s that will be provided to you to give feedback about the content and process of the course. You will also be required to fill-in and submit within the expected time, the follow-up questionnaire that will be sent 6 months after the course to provide feedback on how the course would have been useful to your work.

### Event dates

The course and all its activities will be carried out in a virtual way

The course will be taught between  
31 May 4th June 2021

The streaming sessions will  
take place from 12:30 - 15:30  
hours Norwegian time



For detailed information regarding the training course please contact:

**Laura C. Bull**

Head of Studies ICH

Laura@ich.no



**Norad**



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