ICH

2020

International Course Programme

Gaining through Training
The future is in YOUR hands.

REGISTER TODAY!

ICH courses are designed to help you learn the most current practices in sustainability. When you join our courses you'll

- become part of a global network of professionals
- learn the latest tools and technologies to make your operations more sustainable
- gain knowledge to improve stakeholder management
- gain skills to mitigate the impacts of climate change

How to register:

Only applications submitted online will be accepted. You can access the official ICH Application at www.ich.no. Please click on the Application Form under the Courses icon and select the course of your interest.

Information on each course can also be found at www.ich.no or by contacting ICH.

Laura Bull
Head of Studies, ICH
laura@ich.no

Impacts
Applicants 1,632
Participants 876
Women 216
Men 660
Norad-sponsored 677
Self-funded 199

International Centre for Hydropower
S P Andersen’s veg 7, 7031 Trondheim, Norway
http://www.ich.no/
Join us to promote a more sustainable future in renewable energy

Our hydropower and renewable energy specialists are working to help address the most pressing challenges in the field of renewable energy. Building on last year’s courses, we’ve further developed our offerings on topics including financial and legal matters, environmental and social corporate responsibilities, and achieving gender equity.

Our course alumni become leaders in discussions on environmental and social sustainability in the field of renewable energy. Course participants go on to help develop and maintain hydropower technologies, and operate more sustainable sites across Africa, Asia and Latin America.

In 2020, International Centre for Hydropower (ICH) is offering a range of courses to address these challenges and contribute to the sustainable development of hydropower and other renewable energies. Our courses are open to all professionals in the field of renewable energies. Join us to learn about your role in a more sustainable future.

ICH is a non-profit organisation based on institutional membership among organisations with an involvement in hydropower. The purpose of ICH is to raise knowledge standards and capacity of industry personnel, while promoting more sustainable development of hydropower based on Norway’s experience.

Mark Your Calendars!

April 2020
Risk Management in Hydropower Development

May 2020
Prevention and Administration of Social and Environmental Conflicts in the Renewable Energy Sector

June 2020
Small Hydro Development Pitfalls and Successes

September 2020
Hydropower, Renewable Energies and the Environment
Risk Management in Hydropower Development

Trondheim, Norway
Week 17
Date: 20-24 April 2020
Application deadline: 20 February 2020
Registration fee: NOK 17,000
Arrival to Norway: 19 April 2020
Departure: 25 April 2020

Risk management is vital in the process of hydropower development. Managing risks helps overcome construction and operational hurdles and address the complexities of regional integration.

OBJECTIVE
The aim of this course is to provide participants with the ability to identify, qualify, evaluate and design measurements to monitor and manage different risks on a strategic level in hydropower development.

Our resource persons have diverse backgrounds, all bringing a different component of risk management to the classroom. They include civil engineers, corporate social responsibility officers and governance specialists. To ensure the sustainability and affordability of this course, multilateral institutions contribute to the lectures on finance compliance. A practical case study and a dam assessment model exercise will conclude the week of lectures, providing course participants with the experience they need to apply on return to their home countries.

TOPICS
- Participants will learn risk evaluation process risk evaluation approach risk evaluation models
- Sustainability risk evaluation, in terms of the triple development objectives of achieving social, financial and environmental sustainability
- Occupational Health and Safety
- Financing Hydro Schemes: Country risk analysis
- Risk evaluation model
- Operational and technical risk assessment
- Integrative dam assessment modelling using environmental, social and technical risks

TARGET GROUPS
The course is aimed at professionals with a minimum of 5 years of experience in the hydropower or renewable energy sector including power companies, ministries, authorities, NGOs, relevant private enterprises and others working with energy project planning in complex social environments requiring knowledge of stakeholder management. Executives of power companies, ministries, water resource and energy agencies and relevant private sector enterprises with management responsibility or influence on project planning will benefit from this course.

Prevention and Administration of Social and Environmental Conflicts in the Renewable Energy Sector

Trondheim, Norway
Week 20
Date: 11-15 May 2020
Application deadline: 7 March 2020
Registration fee: NOK 17,000
Arrival to Norway: 10 May 2020
Departure: 16 May 2020

The electricity industry faces a number of challenges, including the delicate balance between achieving business objectives and relationships with impacted communities, state entities and other stakeholders.

The conflict of interests among stakeholders may result in points of disagreement, resistance or opposition. In some cases, conflicts can lead to violence and adversely affect not only the fulfillment of the company’s goals, but also the renewables energy policies of a country.

This course provides participants with tools to identify potential conflicts that allow for the development of more assertive approaches to transform disadvantaged situations into opportunities for the benefit of all parties.

Conflicts as a social phenomenon is not simply created or destroyed, but is a process that is transformed. It is necessary to be able to identify the stage of the cycle in which it is, and design strategies tailored to the actors and specific circumstances.

Even when entering a more peaceful or post-conflict stage, it is necessary to keep the channels of communication open, to enhance trust and realistic agreements.

The lessons learnt in the handling of the socio-environmental conflicts by the renewable energy industry should encourage knowledge and information sharing to help better understand the root causes of project success and failure.

OBJECTIVE
Provide tools to identify and analyse elements contributing to socio-environmental conflicts. To develop strategy for approaching, managing and transforming conflicts.

TOPICS
- Origin, definition and role of socio-environmental conflict in the renewable energy industry
- How to categorise socio-environmental conflicts
- Stages of the socio-environmental conflict cycle
- Strategies to approach conflict from prevention to management
- Importance of strengthening the relationship between all stakeholders
- Indigenous peoples’ identity and dependence on natural resources in river basins in relation to hydropower development
- Design of processes according to the analysis of the conflict and context
- Dialogue mechanisms for the transformation of conflicts
- Mechanisms to strengthen lasting peace in the post-conflict phase
- Experiences in conflict prevention and management and peacebuilding processes
- Development of case studies
- Identifying target groups

TARGET GROUP
The course is aimed at professionals with minimum 5 years of experience in the hydropower or renewable energy sector including power companies, ministries, authorities, NGOs, relevant private enterprises and others working with energy project planning in complex social environments requiring structured knowledge of the stakeholder management. Executives of power companies, ministries, water resource and energy agencies and relevant private sector enterprises with management responsibility or influence on project planning will benefit from this course. The course will also be of value to engineers working in stages of project planning.
Small Hydro Development Pitfalls and Successes

Trondheim, Norway
Week 24
Date: 8 - 12 June 2020
Application deadline: 7 March 2020
Registration fee: NOK 17,000
Arrival to Norway: 7 June 2020
Departure: 13 June 2020

Small 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 tributary river systems, 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 a big environmental and social footprint.

With this said, when small hydropower is 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.

Hydropower, Renewable Energies and the Environment

Trondheim, Norway
Week 37, 38, 39
Date: 7 - 21 September 2020
Application deadline: 20 June 2020
Registration fee: NOK 34,000
Arrival to Norway: 6 September 2020
Departure: 22 September 2020

Countries in demand of energy are looking for the best and the most cost-effective solutions to their needs. Hydropower is a renewable source of energy, yet hydropower and dams may cause conflicts and damage nature and mankind unless steps are taken to identify and mitigate negative impacts. Additionally, degradation of the environment can be costly in the future. Concern for the environment should not be seen as a constraint on countries with hydropower potential, but a positive challenge to be met when planning projects.

TARGET GROUP
The course is aimed at medium and high-level management in power companies and public agencies and governments involved in power supply and rural electrification.

TARGET GROUP
The course is aimed at senior professionals dealing with environmental issues in hydropower and dam projects. Executives of power companies, ministries, water resource and energy agencies and relevant private sector enterprises with management responsibility or influence on project planning will benefit from this course. The course will also be of value to engineers working in water resources planning and multipurpose projects.

OBJECTIVE
Understanding essential environmental and economic issues in the pre-feasibility phase of small hydropower will help improve sustainability. Courses 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 better understand the benefits of small hydropower projects when environmental and economic issues are addressed early. This course reviews and evaluates the current trends in small hydropower development, encouraging critical thinking on planning from a cumulative perspective. Course participants will arrive at a common understanding of efficient tools needed to achieve the sustainable development of small hydropower.

TOPICS
• The roles of government and the regulator
• Financial institutions safeguard and sustainability
• Hydrology, production estimates, environmental flows and sustainability
• Environmental flows and cumulative impacts of many small hydro projects
• Appropriate and low-cost small hydro technical solutions
• Reservoir sedimentation and sediment management
• Small Hydro planning and operation challenges often underestimated
• Turbine selection, quality and reliability standards and visit to turbine laboratory
• Cost estimating of small hydro diversified investment portfolio

OBJECTIVE
This course looks at procedures promoting compliance with international requirements for good environmental planning. International financing of hydropower and renewable energy projects depends on such compliance, as well as the well being of people living in river basins. Participants will learn how Environmental Impact Assessments (EIA) are commonly organised and conducted. As a result, participants will be better prepared to analyse the results and identify mitigating measures. This course focuses on proactive planning in order to ensure the sustainable utilisation of natural resources.

TOPICS
• Energy efficiency and sustainable reservoir management
• Water resources utilisation from a global perspective
• Environmental effects of hydropower
• Environment and climate change
• Trends in hydropower developments
• Licensing and legal frameworks
• Minimum flow restrictions
• Environmental Impact Assessment (EIA) study process
• Aquatic and terrestrial effects
• Environmental management plans
• Social and cultural issues
• Resettlement
• Physical effects in a river basin
• Sedimentation and erosion
• Economic and financial aspects
• Adaptive Environmental Assessment and Management (AEAM)
• Case studies/interdisciplinary work groups
• Field trips, social events and company visits
About ICH Courses

Our lecturers and resource persons are well-known specialists within their field, bringing their extensive international experience to the classroom. Attending ICH are an opportunity to discuss and learn about current issues related to hydropower and together with professionals from Africa, Asia, Europe and Latin America. Participants are encouraged to share information and their experiences on energy and hydropower.

The ICH advantage begins in the classroom and continues long after the course has ended. Course participants become a part of a closely-knit ICH Alumni network, encouraging professional exchange and dialogue that promotes career development and sustainable practices.

ICH celebrates cultural diversity. ICH enhancing the social, environmental and economic value of the renewable energy resources.

Admission requirements

Do

- Only those applications submitted online can be accepted.
- Access the official application at: http://ich.no
- Complete the entire form
- Background information is essential for the selection process to be complete.
- Please ensure you meet the specific profile description of targeted groups for the courses.
- Applicants will be requested to provide a proficiency certificate of English Language. An English proficiency interview may be conducted.
- Women are encouraged to apply.
- Those selected are required to attend the full 3-days of training and to receive a completion certificate.
- In general, a minimum of five years’ work experience is required.
- ICH code of Conduct Applies to all participants and lectures.

Don’t

- Applications will not be accepted after the deadline.
- Seats are not transferable once selection process has been completed.
- ICH courses do not accommodate the participation of spouses or companions.

Fee

- The course fee includes lectures, materials, accommodation, some meals, a social programme and fieldtrips if applicable
- International travel expenses are not included
- ICH members receive a reduced tuition fee
- A limited number of sponsored seats are available for participants from developing countries prioritised by Norwegian Agency for Development Cooperation (NORAD).

More information

Information on each course can also be found at www.ich.no or by contacting ICH.

Laura Bull
Head of Studies, ICH
Head of Latin America
laura@ich.no

ICH 2020 International Centre for Hydropower
Join our communities on Facebook and LinkedIn.

Disclaimer: The organizers reserve the right to accept or reject any applicant based on their qualifications and experience.