AFRICA 2020

Gaining Through Training

Women are encouraged to apply!
Renewable energy projects invariably have environmental, social and health footprints that can be manifold and affect physical structures, land used for agriculture or grazing, forest lands and water ways for fisheries and mobility. These impacts can cause loss or changes in:
- the natural resource bases
- livelihoods, health, and well-being
- cultural heritage and access
- resettlement.

Social Impact Assessment (SIA) is an instrument that is part of the Environmental and Social Impact Assessment (ESIA) process that is required by international and national institutes/governments.

SIA is used to acquire an acute baseline of data and knowledge impact that a planned project may have. Impact assessments as the SIA process require the use of methods for data collection and communication which provide the basis for understanding project impacts and importantly how the impacts may be avoided and minimized.

The course provides the essential international standards of practice, processes, acceptable techniques, mitigation, and enhancement measures that are elemental to assuring representativeness, fairness and sustainable well-being of affected communities and other concerned stakeholders. The course draws from both African and international examples and is built upon offering two modules:

**Module I** as an e-course will cover the essentials of guidelines shaping practice of selected impact themes, stakeholder engagement and management, and cross-cutting issues. In addition, Module I will encompass pre-course preparation, course exercises, and one review (due prior to the start of Module II).

**Module II** will be hosted in Ghana in 2021 and will cover the bulk of the course covering SIA including project site visits. The dates for the Module II will be decided after the completion of Module I.

**COURSE OBJECTIVE**

The course will introduce participants to procedures that should be followed in order to comply with today’s requirements for a sound social impact assessment process, including strategic priorities and national guidelines, and to provide tools for planning hydro-power and other water-related projects in the best possible way on a transboundary, national, regional and
local level. It will expound on state-of-the-art innovative SIA and thematic cross-cutting needs/approaches to hydropower development, including vulnerability and gender, climate adaptation, payments for ecosystem services and management of stakeholders.

**MAIN TOPICS**

- Background and development of SIA, sustainable development, human rights, and global changes/threats
- Impact assessment methods, risk assessment and management tools
- Baseline data and mitigation measures
- Stakeholder consultation, expectations, conflicts, and grievance
- Resettlement and land acquisition
- Livelihood mapping, restoration, and development
- Health issues and well-being
- The role of independent monitoring, NGOs, CBOs, etc
- Environmental and technical issues relevant to SIA
- Indigenous peoples/ethnic minorities and vulnerable groups
- Institutional strengthening and capacity building
- Financial and budget issues
- Corporate Social Responsibility and Benefit Sharing

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**COURSE OUTLINE**

This course will be presented in 2-parts. Selected participants will be required to attend both the Online course in September 2020 and the planned physical workshop in Ghana in 2021.

**PART I – 21 – 25 September 2020**

This part of the course will be conducted online using lectures and interactive webinars.

**PART II – 2021, Ghana**

A workshop session and continuation of the online course will be hosted in Ghana in 2021, where continued lectures and feedback on reflective case studies and exercises will be presented. Comprehensive project site visits are planned.

**TARGET GROUP**

The course is aimed at power companies, ministries, authorities, NGO’s, relevant private enterprises, and others working with development of water resources requiring structured knowledge of the SIA process. 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.
Africa’s hydrological shifts due to climate change coupled with topography and pattern of land use are some of the issues that increase the variability in sediment transport and rates of reservoir siltation.

The build-up of sediments in reservoirs can significantly reduce storage capacity thereby affecting energy production and the reliable supply of water. Moreover, sediments can compromise the safety of the structures, damage equipment and results in significant financial consequences.

Sediment management is therefore important and relevant for the sustainable use of water resources and addresses the problems of food, water, and energy insecurity.

It has become even more critical under the current Covid-19 pandemic to ensure the continued and stable supply of energy and water to vulnerable populations and essential service sectors such as hospitals.

To implement sustainable sediment management, a capacity both in terms of resources and trained manpower is essential and a priority requirement for the region.

**COURSE OBJECTIVE**

This 2-part ICH training will contribute to the ongoing efforts of mitigating the sedimentation problems of reservoirs for more sustainable uses by exploring and disseminating practical methods and strategies that are viable to apply in handling sediments in a more economically, technically and environmentally feasible way. Participants will learn practical cost-effective, innovative, technical solutions to reservoir sedimentation for optimum benefits of the water resources in Africa.
**MAIN TOPICS**

- Focus on reservoir sedimentation
  - Processes and sediment load estimation
- Impact of climate change on reservoir sedimentation
  - A regional perspective
- Monitoring sedimentation in existing reservoirs
- Strategies for management of sediment in reservoirs
  - Applicability and challenges to the region
- Managing sedimentation amidst pandemics — Pandemic planning and transitioning from emergency response into long term planning
- Sediment data collection and forecasting techniques
- Socio-economic and environmental impacts of sediment management strategies
- Field visit

**TARGET GROUP**

The course is aimed at reservoir operators, government water resource and energy agencies, reservoir owners, utility managers and field level experts. Executives of power companies, ministries, and relevant private sector enterprises with reservoir operation and management responsibility will benefit from this course. The course will also be of value to engineers working in water resources planning and multipurpose projects.

**COURSE OUTLINE**

This course will be presented in 2-parts. Selected participants will be required to attend both the Online course in October 2020 and the planned physical workshop in April 2021 in Malawi.

**Part I – 19-23 October 2020**

This part of the course will be conducted online using lectures and interactive webinars.

**Part II – 19-23 April 2021**

A workshop session and continuation of the online course will be hosted in Malawi in 2021, where continued lectures and feedback on reflective case studies and exercises will be presented. A comprehensive technical field visit is planned.

ICH, collaborating with local partners to improve skills for energy sector professionals

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An effective dam safety programme therefore requires continuous capacity building and updating the skills of dam owners and operators through professional training programs and on-the-job training.

**COURSE TOPICS**

This combined online and classroom ICH training programme will in great detail address:

- Basic principles of dam safety
- Causes of dam failure
- Climate change and its impact on dam safety – regional perspective
- Dam risk assessment and risk management techniques & principles

The fundamental principles of dam safety management remain critical despite uncertainties brought about by Covid-19.

Dam owners and operators are required to navigate through the challenges presented by this pandemic yet maintain an effective dam safety management program which is key to minimising the risk of a dam failure, protecting life and property whilst ensuring the sustainable development of hydropower and the utilization of water resources.

A well-designed dam safety management programme offers a greater understanding of the structure and is a key source of information of the dam’s functions and its continued performance.

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DAM SAFETY MANAGEMENT FOR SUSTAINABLE HYDROPOWER IN AFRICA

**PART 1 Online course 26th – 30th October 2020**

**PART 2 Workshop – April 2021, Malawi**

Application deadline; 21 August 2020 / Course fee – USD $1 000

Fee includes course materials, accommodation, and meals
This course will be presented in 2-parts. Selected participants will be required to attend both the Online course in October 2020 and the planned physical workshop in 2021 in Malawi.

Part I – 26-30 October 2021
This part of the course will be conducted online using lectures and interactive webinars.

Part II – April 2021, Malawi
A workshop session and continuation of the online course will be hosted in Malawi in 2021, where continued lectures and feedback on reflective case studies and exercises will be presented. A comprehensive technical field visit is planned.

TARGET GROUP
The course is aimed at dam operators, dam owners, managers and field level experts. Dam surveillance engineers, executives of power companies, ministries, water resource and energy agencies, and relevant private sector enterprises with dam operation and management responsibility will benefit from this course.

The course will also be of value to engineers working in water resources planning and multipurpose projects.
Specifics for the Online Courses & Workshops

GENERAL

All lecturers and resource persons are well-known specialists within their field, and they have extensive international and regional experience.

Attending the courses is an opportunity to discuss and learn about current energy sector issues related to Hydropower and other renewables together with professionals from the continent and abroad.

Participants are encouraged to bring along information that can be shared about pending energy and hydropower issues of your interest.

ADMISSION REQUIREMENTS

- A minimum of about 5 years of working experience is required.
- Applicants should hold an applicable degree or possess relevant background knowledge.
- Proficiency in English is compulsory for all the courses. Notice of admission will be given shortly after the application closing date.
- Basic computer skills and internet access are imperative

Applicants MUST diligently complete the application form before submission.
The application form can be accessed at the ICH website – www.ich.no

Please ensure your completed application is received no later than the given deadline

Notice of admission will be given shortly after the application closing date. ICH reserves the right to accept or reject any applicant based on their qualifications and experience.

COURSE OUTLINES

These courses will be presented in 2-parts and selected participants will be required to attend both the online course in 2020 and the planned physical workshop in 2021.
Detailed course programme and other relevant information including travel will be sent to all participants in due course.

COURSE FEE

The course fee includes lectures and materials for both Part 1 & Part 2 of the training. This fee will also cover accommodation, meals, a social programme, and fieldtrips for Part 2 of the programme.

International travel expenses are not included.

There is a reduced fee for ICH members.

A limited number of sponsored seats are available for participants from countries prioritized by NORAD (Norwegian Agency for Development Cooperation). Those who would like a guaranteed seat on the course should secure their own funding.

MORE INFORMATION

Information on other courses can also be found on our website: www.ich.no or by contacting carole@ich.no

CONTACT;

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Stay connected to us:

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