



International Centre
for Hydropower

Hydropower and the Environment in Africa

*Kafue Gorge Regional Training Centre (KGRTC), Zambia
9–21 November 2009*

The International Centre for Hydropower (ICH) proudly invites you to the training course *Hydropower and the Environment in Africa*, to be held at the Kafue Gorge Regional Training Centre in Zambia 9–21 November 2009.



Den norske UNESCO-kommisjonen

invitation



Enhancing sustainable development through environmental awareness and improved management of hydropower resources.



All countries in the African region in general are in great need of energy and 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 conflict and be of damage to both nature and mankind unless steps are taken to identify possible negative effects, and take appropriate action to eliminate or minimise those effects. Degradation of

the environment can draw large costs 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

COURSE OBJECTIVE

The training course offers, within the framework of lectures, and field excursions, better insight of the regional requirements for good environmental and social planning in the African Region. The international financing of hydropower depends of this, and the well being of millions of people relies on it. Participants will learn how Environmental Impact Assessments (EIA) are typically organised and carried out, and they will be better prepared to analyze the results and identify proper mitigating measures. The focus is on proactive planning in order to ensure the sustainable utilisation of natural resource



TARGET GROUP

The course is aimed at senior professionals who deal with environmental issues in hydropower and dam projects from the African continent. 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.

MAIN TOPICS

- Trends in hydropower development
- Integrated water resources management
- The EIA study process
- Environmental management
- Valuation and economic aspects
- Social and cultural issues
- The SIA study process
- New renewable energy solutions
- CDM and its impact on hydropower development
- Ecological effects of hydropower on terrestrial and aquatic environments
- The application of resource economy in planning of hydro projects
- Hydrological aspects
- Tackling sediment problems in reservoirs, intakes and power stations
- Alleviation of water hyacinth problems in reservoirs and intakes

APPLICATION

Applicants should hold a university degree in hydropower engineering or have an equivalent background. A minimum of 10 years of working



experience is required. Proficiency in English is necessary.

Women are encouraged to apply.

Applications should be received no later than 1 September 2009

COURSE FEE AND SPONSORING

The course fee is 20.000 NOK. The fee includes materials, accommodation, meals, fieldtrip and some social programme.

A limited number of sponsored seats are available for participants from developing countries prioritised by Norad (Norwegian Agency for Development Cooperation).

Applications must be sent before the deadline 1 September 2009. Incomplete applications or applications sent after the deadline will not be taken into consideration in the selection process.



TIME AND VENUE

The venue will be at Kafue Gorge Regional Training Centre, beautifully located near the Namalundu village and the 900MW Kafue Gorge Power Station, a 1 ½ hour's drive from Lusaka. The course will start in the morning of 9 November 2009. Participants are expected to arrive at KGRTC in the evening of 8 November. Transport from Lusaka Airport to KGRTC will be arranged.

DRESS CODE AND CLIMATE

November is summer time and early rainy season in Zambia. Temperatures could reach up to 36°C. Participants should note that formal dress is not a requirement for any of the functions.

TECHNICAL VISIT

A guided visit will be conducted to the Kariba Dam and Kariba Lake area.



International Centre
for Hydropower

The International Centre for Hydropower is a non-profit organization based on institutional membership for organizations in the hydropower sector. The purpose of ICH is to raise the standards of competence of personnel in the hydropower industry, promote the industry and work for a sustainable development of hydropower resources.



ICH Celebrating Cultural Diversity

Talking one Common Language... with Common Key Words:

Clean Energy, Sustainable Development, Environmentally Friendly, Interdisciplinary,

To fulfil... A common Goal: ... Hydropower!

ICH – Learning from each other, building up a better world!

Please return this form before 1 September 2009 to fax: +47 73 59 07 81 or e-mail laura@ich.no

invitation



Hydropower and the Environment in Africa
9–21 November 2009
Application deadline 1 September 2009

Please tick off the course you are applying for, and return the application form to fax number: + 47 73 59 07 81 before the application deadline given above. Please use separate forms for each course.

- Will secure own funding
 Reduced fee for members
 Apply for NORAD sponsorship

PERSONAL DETAILS – PLEASE SPECIFY – WRITE CLEARLY

Family name:	<input type="checkbox"/> Male	<input type="checkbox"/> Female	Date of birth:
First name:	Nationality:		
Organization:	Marital Status:	Number of children:	
Address Office:	Home phone (incl country and city code):		
Address Home:			
Office phone (incl country and city code):			
Fax:	E-mail:		
Country:	www:		
University degree (level and field)	Name of university	Country	Year

Years in present position: _____ years. Years with present organization: _____ years.

Duties and responsibilities in your present job/position (use separate sheet if necessary):

Previous working experience:

How did you find out about this course? ICH Web Site, Colleagues, Employer, Friends, Organizers

Total number of years working experience: _____

Other information:

Food restrictions: Smoke Non-smoke

Applicant's knowledge of English: Excellent/Fluent Good/average Very little experience

Course fee: Those who would like to participate at the course should secure their own funding support. The course fee should be transferred to ICH as per instruction given when selections have been made.

For more information regarding the courses and practical details around them, please contact us at mail@ich.no

Applicant's signature _____ Date: _____ Employer's signature _____ Date: _____