



International Centre
for Hydropower

REGIONAL POWER TRADE PROGRAMME

Grid and Market Integration – Hydropower and other Renewables

12–16 September 2022
Johannesburg, South Africa

Application deadline – 10 July 2022

Course fee – USD\$ 1000

*Residents USD\$ 500

*Fee includes course materials, accommodation, and meals

Supported by





The continued focus on renewables energies to meet growing electricity demand in Africa requires an evaluation of and evolution of existing power systems.

How can variable renewable energies be efficiently integrated into the grid in a cost-effective way whilst maintaining grid stability and ensuring reliable supply of electricity?

Women are encouraged to apply.

OVERVIEW

This course will focus on national and regional conditions primarily in Southern and Eastern Africa in view of future interconnection enabling the coupling of Eastern and Southern Africa and the increased pace of introducing both RES and competitive markets in those regions.

The course will have two main focuses;

- i the evolving future market frameworks both in a national and regional setting, and how these can be part of the solution towards integrating RES in a national and regional context.
- ii. modelling the effect of integration of RES in a power system.

Focusing on the integration of RES in both the grid and different competitive markets, the course will provide an overview of both challenges, solutions, and practical modelling examples as to how these can be done.

In addition to the historical experience of RES integration, the course explores future challenges and placing emphasis on the transition towards a fossil free future.

Lecturers will inform, share, model and deliberate with participants on the impending challenges and opportunities facing power producers and the electricity sector in this new setup with a higher penetration of RES in an increasingly more competitive power market

At the core will be applicable practical modelling exercises and examples where participants will use publicly available tools to create models and take these back home.



OBJECTIVES

Using a hands-on approach, this course will;

- Address the challenges of integrating RES in a power system both from a grid and market perspective.
- Present the opportunities of how to manage these both in a central and competitive environment, demonstrating how these can be facilitated based on international best practices and concrete examples.
- Through interactive and practical learning, help participants understand how to model the integration.
- Use publicly available tools and allow participants to model a simple system where the main focus is on the integration of RES.

TARGET GROUP

- Local power producers
- Energy Regulators from the individual countries
- Executives and Traders of power companies
- Lawyers
- Energy sector investors and developers.
- National system operator(s)
- Relevant private sector enterprises with management responsibility
- Other interested parties

Power systems need to adapt to the seasonal variability of renewables

SPECIFICS FOR THE COURSE

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 issues related to power trading together with professionals from the continent and abroad. Participants are encouraged to bring along information that can be shared about pending energy and power market 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 this course

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.

SPECIFICS FOR THE COURSE

Women are encouraged to apply.

Information on travel, detailed course programme and other relevant information will be sent to all participants in due course. Participants are expected to arrive at the venue of the course the day prior to the course start and leave no earlier than the day after end of the course.

COURSE FEE

The course fee* includes lectures, materials, accommodation, some meals and a social programme if applicable. 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.

*Accommodation will be provided for participants attending from outside the host country and paying USD\$ 1000. Attendance without accommodation is USD\$ 500.



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