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Management of Hydro Power Development and Use



PART 1 IN STOCKHOLM, SWEDEN, SEPTEMBER 5 – OCTOBER 3, 2009
PART 2 TAKES PLACE BETWEEN APRIL 12–24, 2010

Invitation

The Swedish International Development Cooperation Agency (Sida) offers, as part of its bilateral development assistance, Advanced International Training Programmes of strategic importance to the social and economic development in the participants' countries. The International Training Programmes are specially designed for persons qualified to participate in reform processes of strategic importance on different levels and holds a position in home organisation with mandate to run processes of change. This methodology is based on the assumption that your country wish to carry out changes and are willing to invest own resources to achieve these changes. In the long-term perspective the programmes shall contribute to institutional strengthening and capacity development in the participants' countries.

Training is focused on support to individual or team plans for change. The plan shall be well established in the participant's organisation and is a basic part of the programme concept.

In this brochure you will find information on the specific objectives for this particular programme, its content and structure, and how and when to apply. You will also find an application form.

The knowledge of hydroelectric power technology in Sweden today is based upon more than 100 years of experience of design and construction, operation and maintenance, asset management and manufacturing of equipment. Sweden also has extensive experience of rehabilitation and re-investment increasing the technical & economical lifetime of the plants including follow-up of dam safety.

Training of personnel is essential if a high level of proficiency and efficiency is to be achieved and maintained within the industry. Sida and Vattenfall Power Consultant have hence developed this programme in Management of Hydropower Development and Use.

The Management of Hydro Power Development and Use Training Programme is carried out by Vattenfall Power Consultant in cooperation with SWECO International together with experts from other Swedish consulting engineers, power companies, contractors and manufacturing companies in the field of hydroelectric power.

We are confident that the Training programme will be of interest and hereby invite you to nominate candidates.



Anders Nordström
Director General
Sida



Jacob Lundberg
Executive Vice President
Vattenfall Power Consultant AB

Programme Objectives

The overall objective is to give the participants managerial insight into all the main aspects of sustainable hydropower development including trends and techniques available, and in accordance with the requirements outlined by the World Commission on Dams report from 2000. This is reflected in the programme objectives:

- To increase the participant's ability to see hydropower and dam construction in a wider perspective and to contribute in various decision-making processes with critical and analytical thinking;
- To understand the negative consequences which are connected with dam construction and hydropower development, and how to minimise these through better planning;
- To realise the importance of letting all stakeholders in a hydropower development project become involved in the decision-making process from the earliest phases of the project;

- To be able to analyse the potential for efficiency-improvement potential in the existing power-supply system, including dams and hydropower plants;
- To be presented with the Swedish experience of hydropower development both from a technical point of view and how environmental and social aspects have been handled;
- To gain knowledge in various democratic and participatory processes and insight into how decisions are made;

Contents

Change Project and Plan of Action
Important in the programme is a Change Project, which the participants shall be able to implement in his/her home country. The participants will be provided support from mentors for their Change Projects. The support will be given throughout the programme.

This is a change project or task the applicant will develop during the

time in Sweden, then continue to work on during the six months until Part II. Depending on the scope, work will continue for a longer period after the training. The Change Project should have relevance to the work being done by the applicant and be a project that will be specified in a Plan of Action; that is: Specific, Measurable, Approved, Realistic and Time bound. It should include the use of newly gained knowledge upon returning and it is important that the Change Project has full support and backing from closest managers and home organization.

In this application we ask the title and a short summary.

If selected, and when receiving the confirmation, the applicant will answer a more detailed questionnaire regarding the Change Project and also about a Hydro Power Project from respective country.

Programme Structure

The programme is divided into five phases:

Phase I

- The participants prepare their change projects.

Phase II – Part I in Sweden

- Training programme in Sweden, 5 September – 2 October 2009. Presentation of mentors from Sweden.

Phase III

- The participants work with their change projects during 6 months. Mentor support from Sweden.

Phase IV – Part II in selected country

- In April 2010, a follow-up regional seminar for two weeks in a country that will be selected among participants' home countries.

Phase V

- The participants finalise their change projects during one year. Mentor support from Sweden.

Case Studies

Several projects will be presented. Change Projects Mentor support will be provided.

Programme Content – Part I

- Introduction to energy planning, energy master plans and hydro-power feasibility studies;
- Technical aspects: electricity distribution, protection, O&M, rehabilitation, decommissioning;
- Energy efficiency, energy savings and unconventional energy-generation technologies;
- WCD and related tools: Impact assessment – participatory processes, socio-environmental studies and programmes, other assessment methods – life-cycle assessment (LCA), multi-criteria analysis (MCA) etc.;
- Managing a hydropower business

During this first part of the programme, participants shall produce a Plan of Action for his/her own Change Project.

It is expected that each participant take active part in group works as well as in presentations and production of reports. For this and all other work during the Training programme the participants will be supplied with lap top computers.

Programme Content – Part II

Part II is a two-week seminar. Participants shall present progress of their

respective change projects.

Complementary lectures and local study visits are also part of the programme.

Date and place

Part I takes place 5 September – 2 October 2009, mainly in the Stockholm area, but with study tours and visits to the north of Sweden. The participants are requested to arrive in Stockholm on 4 September and depart on 3 October 2009.

Part II takes place between 12–24 April 2010. Exact location to be announced.

Management and staff

The Training Programme is carried out under the management of Vattenfall Power Consultant in cooperation with Sweco International as well as with experienced engineers and experts from the Swedish power utilities, consultants and manufacturing companies and relevant authorities and Non Government Organisations. All lecturers in the programme are highly qualified and have considerable experience in the Hydropower engineering and /or Management field.

Vattenfall Power Consultant's principal activities are in Engineering and Management in the power sector, covering Hydro and Thermal Generation, Power Transmission, Distribution, Environment Conservation and Training & Organisational Development. From the parent company Vattenfall, the largest power utility in Sweden and participating company Sweco, engineering consultants, we have access to more than 4000 experienced staff, covering most skills called for in undertaking multidisciplinary and complex projects, such as a hydropower project.

Participation

Target Group

The number of participants is limited to 25. Suitable candidates should:

- Hold an academic degree – on at least Bachelor, preferably Masters level.
- Have executive experience as gen-

eral or functional managers, and/or planners

- Have promising career prospects as line managers in the company or organisation
- Be approx. 30-45 years of age - Have a very good command of read, written and spoken English

Applications from qualified female candidates are especially welcome.

The participants are expected to attend and take part in the programme in accordance with the schedule prepared by the host authorities and comply with their rules and regulations.

Language requirements

The Programme will be conducted in English, and fluency in English is required. Candidates with other than English as their mother tongue must certify their proficiency in English by an English test and certificate. The language test should be made with an official body in the home country.

The Swedish Embassy/ Consulate does not carry out language tests but may be able to recommend appropriate language institutes for conducting tests.

Application Process

**Closing date for application is
May 15, 2009.**

Applications submitted after the closing date will not be considered. Application should be written on the special form attached and include a recent photo, required information and documents approved by the official nominating authority in the country. Only candidates officially nominated by the appropriate authority can be accepted.

The application should be submitted to the nearest Swedish Embassy/ Consulate. If there is no Swedish Embassy/Consulate in the applicant's country, the application should be submitted directly to the Program Secretariat.

Application forms can also be found on: <http://www.bth.se/sidaitp>

Note! A copy of the application should be sent for information to Vattenfall Power Consultant AB lesley.eriksson@vattenfall.com or by fax +46- 8-739 62 26, before being handed into the Swedish Embassy.

The selection meeting will take place on **Friday, 29 May 2009** and selected will be notified by e-mail or telefax. An invitation letter will be sent out, containing additional information on the programme and the practical arrangements.

Once accepted, the applicant must confirm participation no later than *3 June 2009*.

Cost of Participation

The cost of the programme is divided between a participation fee and accommodation cost. The participation fee covers all training cost such as lectures, literature, documentation, study tours and certain social activities and accommodation costs include board and lodging. The Swedish International Development Cooperation Agency (Sida) will cover all these costs.

Sida does not cover international travel costs to and from Sweden.

The participant's company/organisation is responsible for costs incurred for the return travel from the participant's home to and from Stockholm's international airport, Arlanda. Sida pays international travel cost in connection to the second part of the training programme. Personal expenses are not included.

Accommodation

The participants will be accommodated in single rooms with shower and/or bath. The standard of the hotel rooms can however differ from place to place, depending on the availability and demand. Please note that Family members are NOT accepted to join the *Participant during the Programme*.

Visa

Participants are responsible for obtaining all visas necessary for their journey and stay during the training programme. The visa should be valid for the whole period of the programme, including days for travel, and the passport should be valid for three months longer than the entry visa. Inquiries should be directed to respective Swedish Embassy / Con-

Contact information

The address for all communication is:

Vattenfall Power Consultant AB

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sulate alternatively other Schengen representation as soon as possible after acceptance into the programme. Participants visiting other countries on their way to or from Sweden must ensure that correct visas are obtained before leaving home country, especially for countries not included in the Schengen agreement. The costs for obtaining visas are carried by the participant.

For more information, this website offers Swedish visa information: <http://www.migrationsverket.se/english.html>

Insurance

All participants are covered by a group insurance while in Sweden and on organised tours during the programme. This insurance includes costs for medical care in the event of acute illness or accident. Medical and dental check-ups are not included.

Closing date for application is May 15, 2009.

Halving poverty by 2015 is one of the greatest challenges of our time, requiring cooperation and sustainability. The partner countries are responsible for their own development. Sida provides resources and develops knowledge and expertise, making the world a richer place.



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VATTENFALL 

Vattenfall Power Consultant AB is an independent consulting company, offering technical, management and environmental consultancy services, we cover the entire energy sector. With offices or representatives in several countries, Vattenfall Power Consultant is strategically placed to meet the energy sector's demands.

Through cooperation with research institutes and national authorities, Vattenfall Power Consultant has access to the latest research and development. We also draw on experience from the many power installations, transmission and distribution systems, power trade systems, laboratory facilities and training centres operated by Vattenfall in Sweden, Germany and Poland.

Environmental quality and safety is a key component in all aspects of our consulting services. Vattenfall Power Consultant follows the Code of Ethics laid down by the International Federation of Consulting Engineers (FIDIC). Vattenfall Power Consultant is certified in accordance with ISO 9001, ISO 14001 and AFS 2001:1.