



ADVANCED INTERNATIONAL TRAINING PROGRAMME 2012

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# Wind Power Development and Use

Workshop in Asia/Africa, January/February 2012

In Sweden, April 16 – May 10, 2012

Regional Phase in India, November 2012.

## 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 holding a position in home organisation with mandate to run processes of change. This methodology is based on the assumption that your country wishes to carry out changes and is 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.

The 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.

Swedish knowledge about the use of renewable energy sources such as wind power is based on a long experience of design and construction, operation and maintenance, asset management and manufacturing of equipment for the energy sector. Sweden also has extensive experience of using various policy measures in order to promote sustainable energy and reduce impact of energy use on the environment.

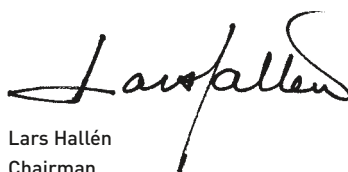
Wind power plays an important role in the Swedish strategy for building a society based on sustainable energy. So far, about 1,000 wind power plants of 55kW and more are in operation in Sweden. But this is only the start. The plans are to produce 30 TWh by 2020 which is more than 30 times the current production. In Sweden wind power plants are constructed and operated not only by the big power utilities but also by private persons, communities and associations, as well as companies and organisations. Besides, Swedish universities and research institutes are active in the development of the wind power sector.

Sida has commissioned LIFE Academy to carry out this advanced training programme on Wind Power Development and Use. The programme will be implemented in cooperation with the Royal Institute of Technology (KTH) and Favonius, a regional public wind power company.

We trust that you will find the training programme of interest and hereby invite you to nominate candidates.



Lena Ingelstam  
Director  
Sida



Lars Hallén  
Chairman  
LIFE Academy

## Programme Objectives

The overall objective of the programme is to contribute to capacity building and increased understanding of the importance of wind power and other renewable energy sources among strategic organisations in the participants' home countries.

The programme aims at poverty reduction and sustainable development through increased availability of electricity from renewable sources for poor men, women and children.

The programme shall provide knowledge and introduce relevant

tools and methods for designing, planning and implementing a change project in the energy sector including aspects of gender and public participation.

The specific objectives of the programme are to provide the participants with:

- An understanding of the impact of energy supply on global climate change and its importance for planning and development as well as its impact on the environment, poverty reduction and gender issues
- Knowledge of the role of wind power in the energy supply as a whole, and its advantages and disadvantages from environmental, economic and technical perspectives
- Knowledge and understanding of the entire process of planning, financing, installation, management, maintenance and dismantling of a wind power plant
- Exchange of knowledge and experience between the participants themselves and between the participants and Swedish actors.

## Contents

### Change Project

A central component of the programme is the participant's own Change Project addressing a relevant problem within the scope of the programme.

The Change Project should be something the participant and his/her organization want to implement during the period of the programme.

**An outline of a proposed Change Project (or a project idea) is to be submitted together with the application form.**

It will form part of the basis for selection of participants to the programme.

The project should be endorsed by the participant's organisation.

### Modules

The programme is divided into five interlinked modules:

#### 1. Sustainable Energy Systems

The module covers central issues for the establishment of a smart and sustainable electric system and introduces various renewable energy sources and their environmental impact, costs etc.

#### 2. Wind Power - Basic Knowledge

The module will in detail present methods of central importance in developing wind power plants such as wind measurement, localisation and design, demands on the infrastructure and the electric grid etc.

#### 3. Planning and Decision Making Processes for Establishing Wind Power Plants

The module covers areas as environmental impact analysis, stakeholder participation and other key areas for efficient planning and decision making.

#### 4. Management, Organisation and Economy of Wind Power Plants

The module includes issues as taxes and tariffs, regulations, various organisation models for managing a wind power plant, etc.

#### 5. Change Project and Processes of Change

The Change Project plays a central role in the programme and in this module methods such as project management and networking to support a process of change will be introduced.

## Programme Structure

### Phases

#### Phase 1 – Preparation and a two-day Scheduled Workshop in the region

Two **regional workshops** will be held, one for participants from Africa and one for participants from Asia.

At the workshops the participants will get support in defining and developing their Change Project.

The workshop aims at stimulating cooperation between participants, their respective organisations and the regional networks.

#### Phase 2 – Scheduled Programme in Sweden, 3,5 weeks

During the **training period in Sweden** participants will be exposed to Swedish knowledge and experience within renewable energy in general and wind power in particular. Interactive lectures and professional exchange dialogues will be combined with presentations, excursions and study visits.

#### Phase 3 – Intermediate Consolidation Phase

Back in their organisations, participants will continue anchoring and developing their Change Projects in dialogue with colleagues and other stakeholders. Web-based tools for communication will be used for networking, peer review and for interactions with and support from the mentors.

#### Phase 4 – Regional Phase, Scheduled Programme, 1,5 weeks

**The regional phase**, will take place in one of the participating countries. During this session the participants will report on the progress of their Change Project with feedback from the mentors as well as other participants. Study visits will provide opportunities to learn from local and regional experiences.

#### Phase 5 – Continued Support Phase

Through the web there will be ongoing interaction between participants, their institutions and the mentors. During this phase the Change Projects will be implemented, evaluated and reported on.

### Date and place for the scheduled parts

The total duration of the programme is 18 months (phase 1–5) out of which 5,5 weeks are scheduled sessions. The two-day workshops in phase 1 will take place in selected countries in Asia/Africa in **January/February 2012**.

The training component in Sweden will take place **April 16 – May 10, 2012**. The programme will be held in Karlstad and Stockholm with a study tour to Falkenberg. The regional session will be held in India in **November 2012**.

### Learning processes

The programme includes a diversity of pedagogical methods such as lectures, group works, forum discussions, case studies, study visits, mentor support and extensive use of ICT. Planning, implementation and evaluation of the Change Project will provide continuity to the programme over the 18 months.

### Management and staff

The training programme is carried out under the management of LIFE Academy, Karlstad, in cooperation with the Royal Institute of Technology (KTH), Stockholm, and Favonius, Falkenberg.

## Participation

### Target regions:

The countries invited with first priority to this programme are: Ethiopia, Kenya, South Africa, Tanzania, China, India, Indonesia, Mongolia, Thailand and Vietnam.

However the programme is also open for other countries with potential for and a wish to develop wind power.

### Target Group:

The programme is primarily intended for decision makers, planners, trainers, managers and specialists in a position to initiate and implement changes within the energy sector in their country. Candidates representing government organisations, private companies or NGOs at national or local level are welcome to apply.

The candidates should hold an academic degree or having equivalent knowledge and have at least five

years of professional working experience.

The number of participants is limited to 25 in order to ensure a close working relationship between participants and the lecturers.

The outline of the Change Project together with the commitment of the home organisation to support the participant and actively involve in the implementation of the project will be of crucial importance in the selection of participants.

To achieve a good gender balance, applications from qualified women are especially welcome.

If selected the participants are required to attend all scheduled parts of the programme.

Due to the character of the programme, family members are not allowed to accompany participants to the programme.

#### Language requirements

The training will be organized and conducted in English and consequently high proficiency in the English language is required. Candidates with other mother tongues will have to certify their proficiency in English.

## Application Process

**Closing date for application is  
August 1, 2011**

Application is to be made on the special form attached and include a recent photograph and all required information and documents. The applicant must be nominated by her/his organisation or institution. When necessary, the application is to be approved by the official nominating authority in the country. The application is to be submitted to the nearest Swedish Embassy/Consulate. If there is no Swedish Embassy/Consulate in the applicant's country, the application should be sent directly to the Programme Secretariat. Selected applicants will be notified by e-mail or telefax.

#### Cost of Participation

Sida will cover all training cost such as lectures, literature, documentation, study tours and certain social activities as well as accommodation and food.

International travel costs to the workshop in phase 1 and the regional session in phase 4 **will be covered by Sida.**

International travel costs to and from Karlstad, Sweden in phase 2 and costs for personal expenses **are not included** and is the responsibility of the participant or his/her organization.

## Contact information

Address for all communication is:

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Homepage: [www.life.se](http://www.life.se)

#### Accommodation

Accommodation will be arranged for the full duration of the scheduled parts in Sweden, Africa and Asia.

#### Visa

Participants are responsible for obtaining all visas necessary during all phases of the programme. The visa should be valid for the whole period of the programme and the passport should be valid for three months longer than the entry visa. 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 on scheduled parts of the programme.

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LIFE Academy is a global network academy, offering international training programmes in sustainable development, such as Environmental Management, Renewable Energy, Climate Change and Information & Communication Technology. After having participated in a training programme at LIFE Academy in Sweden, the participants become members of LIFE Academy. Today LIFE Academy has members in "key positions" in their home countries in more than 70 countries of the world, covering Asia, Africa and Latin America



The Royal Institute of Technology (KTH) in Stockholm is one of the leading technical universities in Europe and provides educational programmes and research in renewable energy including wind power.



Favonius is a regional public wind power company in Falkenberg with extensive knowledge and practical experience from the entire process of designing, installation and management of wind power plants.

SWEDISH INTERNATIONAL DEVELOPMENT COOPERATION AGENCY

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