

Green Energy and Carbon Markets

Course manager

Ms Karen Olsen (PhD) is a researcher in the Energy and Carbon Finance Programme at the UNEP Risø Centre with about 10 years of work experience. She has written and edited several research publications on the CDM and worked actively with developing country governments on capacity development for the CDM. She holds a PhD in international development studies, a masters degree in Political Science and a bachelors degree in Geography from University of Copenhagen, Denmark.

Main facilitators

Mr Jørgen Fenhann (MSc physics, mathematics and chemistry) is a Senior Scientist at the UNEP Risø Centre. He was responsible for developing the CDM/JI Pipeline at www.cdmpipeline.org and has worked for many years on CDM capacity building in a wide range of developing countries. He was a Lead Author in the IPCC Special Report on Emission Scenarios and a Lead Author of the Energy Supply chapter in the IPCC Fourth Assessment Report.

Mr Jens Christian Riise (MSc Ecology, diploma in adult education) is an adult trainer with more than 15 years of professional experience in human capacity development, tailor-made courses and monitoring and evaluation of training effect. He presently works on cross-disciplinary solutions on climate change mitigation with a focus on energy saving and long-term development scenarios for public and private partners.

Mr. Lawrence Agbemabiese (PhD) has been involved since 2000 in UNEP's rural energy enterprise development (REED) and rural energy end-user finance programs in five African countries and China. He brings to this endeavour over 20 years of experience in adult training needs assessment, instructional design and delivery, beginning with his first job as Lecturer at Kwame Nkrumah University of Science and Technology in Ghana.

The course organizers in brief:

Danida Fellowship Centre has contracted the UNEP Risø Centre to develop and manage the course in cooperation with NIRAS.

What is Danida Fellowship Centre?

Danida Fellowship Centre (DFC) manages and implements the Danida supported Fellowship Programme, which supplies training in support of capacity development in Danida's programme and projects worldwide. DFC is responsible for the education, administrative and practical aspects of the training in Denmark. Further information is available at www.dfcentre.com

What is UNEP Risø Centre?

The UNEP Risø Centre on Energy, Climate and Sustainable Development (URC) provides scientific input on energy and climate change issues to the United Nations Environment Programme (UNEP). URC is placed at Risø DTU, the Danish National Laboratory for Sustainable Energy and is part of the Technical University of Denmark (DTU). The centre has about 35 employees and is situated in Roskilde 40 km from Copenhagen. Further information is available at www.uneprisoe.org

What is NIRAS?

NIRAS A/S is one of the largest consulting engineering companies in Denmark and has over 1,200 employees. The company provides consulting services within the fields of agriculture, environment, energy and climate, building and industry, civil works, management, social sciences and transportation. NIRAS has ongoing activities in more than 40 countries. Further information is available at www.niras.com

*The Danida Fellowship Course
"Green Energy and Carbon Markets"
is a three-week training course to be held in*

**Copenhagen, Denmark,
8 – 26 November 2010**



Why this course?

The course will explore green energy and carbon market business opportunities in developing countries within a climate change and development context. The course is relevant for managers and decision makers from the private sector seeking to develop their skills within improved energy efficiency and energy cost

reduction in production processes, new markets related to the supply and use of green energy and CO₂ reductions and prepared to develop new ideas into realistic business plans.

The potential of private sector involvement in green energy development is still relatively under-developed and under-stimulated. However, this is changing with energy sector



reforms aiming to engage large companies as well as small and medium sized enterprises (SMEs) and non-state actors. This has led to new market opportunities. At the same time an increasing international focus on climate change mitigation has been followed by financing mechanisms for low-carbon development involving private sector players.

A wide array of factors can facilitate an increase in renewable energy supply and energy efficiency actions (collectively termed “green energy”) contributing to a low-carbon development such as: an increasing global interest in focusing on SME development; diverse portfolio of commercially viable low-carbon technologies; growing carbon market with significant commercial opportunities; “Carbon Footprint” as a marketing strategy; and accessing finance for renewable energy investments.

The course will cover relevant energy technologies, different technical service providers, market mechanisms, financial mechanisms including the Clean Development Mechanism (CDM), to enable participants to build new private or public-private partnerships. The participants will learn about new markets and business opportunities related to both supply and use of green energy and CO₂ reductions. Moreover, they will be supported in developing new ideas into realistic business plans.

Why you should attend?

- Develop a business plan for your company to apply green energy and possibly access carbon finance to complement your business strategy, i.e. be able to
 - o Introduce energy efficiency programmes and green technologies to reduce costs or improve production processes
 - o Access carbon finance as a financial option
 - o Develop markets for energy efficient appliances and renewable energy technologies

- Explore commercial opportunities among Danish green energy and low-carbon technology providers and increase your knowledge of technology transfer procedures
- Develop a network of professionals in green energy and carbon market development who can help mentor and connect you, as you develop your business

Learning approach

An active learning approach will be employed, involving all participants in acquiring knowledge for action. The course will combine formal course modules, group discussions, video material, case based exercises, and targeted excursions to relevant Danish sites such as producers or stakeholders in the renewable energy market. Moreover, each participant will develop a green energy business plan. If relevant, the business plan may include a Project Idea Note (PIN) for a CDM project opportunity. It is expected that participants will be able to make use of their business plan upon return. A period of follow-up assistance will be provided after completion of the course to facilitate the process of transferring lessons learned at individual level to capacity development at the company level.

Modules

1. Introduction to the course and venue
2. Understanding the challenges of green energy and carbon market development
3. Green energy – introducing technologies and business cases
4. Business opportunities
5. Clean enterprise development
6. Carbon markets – CDM project development
7. Financing mechanisms



Target group

The course is intended for private business managers and entrepreneurs seeking to learn about development of business opportunities and new markets within a growing and partly liberalised energy sector as well as a fast developing global carbon market.

Application procedure

The application procedure must follow the “Guide for Danida Fellows”. The guidelines and the application form are available at the Danish Embassy in the partner country and can also be downloaded at DFC’s website: www.dfccentre.com.

The fellowship form is filled in by the applicant and endorsed by the Danish Embassy Desk Officer responsible for the relevant Danida programme/project. This procedure ensures that the training is targeted for participants within the framework of national sector plans for capacity development. The Embassy will forward the application forms to DFC.

The deadline for submission of application forms to a Danish Embassy is 30 august 2010.

The selection of participants will be carried out by Danida Fellowship Centre and the course manager.

Certification

A Course Certificate will be issued upon successful completion of the course.

Course fee

The course is fully funded by Danida Fellowship Programme’s Private Sector Initiative (including study fee, accommodation, allowances, airfare and insurances).

Further information about the course

For questions regarding the course content and implementation please contact the Course Manager, Ms. Karen Holm Olsen, kaol@risoe.dtu.dk