



Training Program on Environmental Management Systems

Workshop 1, 15th December 2009
Cleaner and more cost effective industry in Macedonia

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- The aim of the Norwegian-Macedonian programme
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Norsk Energi

- Industry association established in 1916
- Energy, environment and safety
- 80 experts with BSc, MSc and PhD
- Consultancy, engineering services, analysis and training
- Independent from equipment suppliers and manufactures
- 90% of turnover from private industry
- International projects mainly funded by Norwegian government and IFIs

”Efficient, environmentally friendly and safe utilisation of energy”





International Projects





Staff engaged in CCEI Macedonia



Hans Borchsenius
Director
International
Department



Ann Iren Glimsdal
Project Manager/Senior
Consultant
International Department



Åse Sørensen
Senior Consultant
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Kjell Olav Nerland
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Cleaner and more cost effective industry in Macedonia

P0429060



MAK-09/006

A three-years program funded by



Norwegian Ministry of
Foreign Affairs

Cleaner and more cost effective industry in Macedonia



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НЦЦП МКД





Programme Aim

Contribute to reduced greenhouse gas emissions and a more cost efficient energy intensive industry in Macedonia

Desired output

1. Pipeline of climate projects with project documentation ready for financing
2. Increased dialogue between project developers and financing institutions
3. Increased cooperation between industry and educational institutions
4. Environmental accounting in companies
5. Increased number of students with international experience



Partners and their roles

The Norwegian Ministry of Foreign Affairs

Finances the programme and oversees its implementation

Norsk Energi

Programme manager, has overall responsibility for implementation and reporting

Contact person: Ms. Ann Iren Glimsdal

Center for Climate Changes

Local programme coordinator, facilitating the implementation of the activities

Contact person: Ms. Bojana Stanojevska

National Cleaner Production Centre at the Mechanical Faculty of UKIM, Skopje

Provides technical assistance and facilitates the contact with the university

Contact person: Prof. Atanas Kocov

Ministry of Environment and Physical Planning & Ministry of Economy

Supports the programme with advice and guidance

Economic Chamber of Commerce

Support the programme in reaching out to the industry and arranging workshop

Other supporters of the programme:

Association of Chambers of Commerce - Industry Chamber

MANU - Research Centre for Energy, Informatics and Materials



Photo: Ms. Glimsdal (NE), Prof. Kocov (NCPC), Ms. Sørensen (NE) and Ms. Stanojevska (CCC)



About the consortium

Norsk Energi is a leading centre of expertise in the fields of energy, environment and safety. The organisation supports both Norwegian and international companies with consultancy, planning and design services, audits, studies, technology development and training.

Norsk Energi primarily works on projects that reduce energy consumption and harmful emissions, like energy efficiency in district heating and energy intensive industries, and fuel switch from fossil fuels to renewable energy.

Homepage: www.energi.no

Centre for Climate Change is a NGO aiming to raise public awareness about climate changes and opportunities of CDM, suggest measures for improving and amendment of the legal framework in the field of climate changes and environment, strengthen the capacities on local and national level, as well as strengthen capacities of the industry for development of climate changes related projects.

The mission of CCC is to protect environment and implement activities combating climate changes.

The National Cleaner Production Centre is funded by UNIDO – Vienna, Austria, and is organized by the Faculty of Mechanical Engineering-Skopje, in cooperation with the Ministry of Environment and Physical Planning and the Ministry of Economy of the Republic of Macedonia.

The centre aims at enhancing the competitiveness and productivity of industry in the Republic of Macedonia, promoting sustained social advance in a way compatible with the environmental protection.



Photo: Ms. Glimsdal (NE), Prof. Kocov (NCPC), Ms. Sørensen (NE) and Ms. Stanojevska (CCC)

Contact information

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Cleaner and more cost effective industry in Macedonia



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Cleaner and more cost effective industry in Macedonia

The project "Cleaner and more cost effective industry in Macedonia" is a 3 year programme offering Macedonian industry technical assistance in identifying environmentally sound energy projects and preparing these projects for financing.

The project is funded by the Norwegian Government and is implemented by a consortium consisting of Norsk Energi, NGO Centre for Climate Changes and National Cleaner Production Centre Macedonia.

The aim of the project is to contribute to the reduction of greenhouse gas emissions and a more cost effective energy intensive industry in the Republic of Macedonia. The project will address barriers to project implementation by building local competence, increasing awareness, developing a pipeline of climate projects ready for financing, as well as improving the dialogue between the authorities, academia, project developers, industry and financial institutions.

Project implementation is supported by:



Norwegian Ministry of Foreign Affairs



Macedonian Ministry of Environment and Physical Planning

Main aspects of the project

- Identification of potential energy efficiency projects in energy intensive industry and district heating companies
- Environmental management
- Assistance to project development
- Preparation of pre-feasibility studies and business plans
- Assess possibility of carbon financing to cover part of investment costs
- Assistance to obtain project financing
- Building of local competence for identifying and developing projects reducing greenhouse gas emissions
- Assisting the Macedonian industry for future EU obligations by increasing social responsibility and competitiveness and producing goods in an environmental friendly manner

Join us

Energy intensive industry and district heating companies are the main target groups of this project, with possible extension to other industries. Involved industry representatives will participate in **training seminars** and will get **technical assistance** for the development of own project.

Besides contributing to **emission reduction**, a more energy efficient industry is also more **cost effective**. Implementation of projects involving new technology will contribute in making Macedonian industry **more competitive** and better **prepared for future EU obligations**.

The project will also assist the industry in complying with existing environmental obligations by providing training on Environmental management.

The project will involve local experts, students, NGOs and authorities in order to develop local competence for identifying and developing projects.

Please contact us if your company is interested in joining this programme



www.ccei.org.mk

NERGI



Activities 2009-2010

Administration and Marketing

Preparation of brochure

Setting up website

www.ccei.org.mk

Signing of MoU with programme supporters

Energy Efficiency

Preparation of prefeasibility studies for projects in selected companies

Technical assistance in project development

Preparation of business plans for selected EE projects

Eligibility assessment CDM financing

Presentation of projects to financing institution

ROUND 1 STARTED 2009

ROUND 2 STARTS 2010

Student Exchange

Exchange of technical students for practical training abroad

1 outgoing and 1 incoming, 2010

1 outgoing and 1 incoming, 2011

Environmental Management

Information seminar 26th October 2009

Collect data about interested companies

EMS TRAINING

PHASE 1: 2 workshops

QUALIFICATION ROUND

PHASE 2

- 3 workshops

- Site visits

- Technical assistance



EMS Training Program - Phase 1

- Introduction seminar 26th October 2009
 - Input requested from industry on type of training needed
 - >20 forms submitted (but some partially completed)
- Phase 1 of EMS Training Programme
 - Open to all registered companies
 - Workshop 1 in December 2009
 - Workshop 2 in February 2010
- Qualification for participation in phase 2



EMS Training Program - Phase 2

- Open to 4 dedicated companies
- Technical assistance in EMS implementation from Norwegian and Macedonian consultants
- Site visits in June
- 3 workshops – April, September and November
- Require that teams take active part in workshops and implement EMS onsite in between workshops
- Tools and training material will be made available



Thank you for your attention !

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