

T@W Good Practice Form

Setting

Title: Alexigros Wind Farm Project
Country: Republic of Cyprus
Location: Southern coast of the Larnaca District
Start date: Commissioning is planned for 2009
End date: 2016 (7 years crediting period)
Technology keyword(s): Wind energy
Host sector: Energy industries

General description

Summary: This project is one of the two first registered CDM projects in an EU member state and the first large-scale CDM wind power project in Cyprus. The purpose of the Alexigros Wind Farm Project is producing renewable electricity from wind. The electricity will be fed into the National Grid of the Electricity Authority of Cyprus and sold on the basis of a Power Purchase Agreement to be concluded with the Transmission System Operator and the Electricity Authority of Cyprus.

Aims: This project will reduce CO₂-emissions and other air pollutants by implementing of renewable energy technology and achieve the targets of the country's policy regarding the promotion and the use of renewable energies.

Summary of Results: The project activity will generate greenhouse gas (GHG) emission reductions of some 55,560 t CO₂e per year by avoiding CO₂ emissions from electricity generation by oil-fired power plants.

Planning Time: Construction to start in 2008
Operation Time: The lifetime of the project activity is expected to be 21 years.

Technical details

Technical details: The Alexigros Wind Farm Project will comprise the installation of 21 wind turbines with a capacity of 1.5 MW each, resulting in a total capacity of 31.5 MW.

Energy data

Energy data: Installed capacity: 31.5 MW
Energy saved/generated: Energy production: 69 GWh/a

Monitoring:	The project proponent will establish a control centre for project monitoring. The control centre will provide the operation reports of the project activity in line with actual needs. The reports will record daily operation of the wind turbines, including operating periods, power generation, power delivered to the grid, equipment defects, etc.
<i>Environmental data</i>	
Environmental data:	An Environmental Impact Assessment approves that there are no important environmental aspects associated with the project: As the wind farm is located at considerable distance from residential areas, there will be no visual and noise disturbances. Loss of agricultural land from this development is negligible as the land is actually not used and very small. As far as wild life is concerned, no negative consequences are expected, if - as recommended - the area is permanently restricted from hunting. The general conclusion is, that in the long run the positive impacts will prevail, and that this development must be encouraged.
Project GHG-emissions:	The project activity, being a zero-emission activity, does not cause any project emissions.
GHG-emission reductions: “EAU, CER, ERU, AAU”:	55,600 tonnes CO ₂ equivalent/year Approx. 55,600 CER/year; i.e. approx. 388.900 CER in the first 7 years crediting period
Methodology:	Approved consolidated baseline methodology ACM0002 (Version 06): “Consolidated baseline methodology for grid-connected electricity generation from renewable sources”
Baseline	Electricity delivered to the grid by the project would have otherwise been generated by the operation of grid-connected power plants and by the addition of new generation sources. At the moment electricity in Cyprus is generated to 100 % from oil (Heavy Fuel Oil (HFO) and Diesel).
Monitoring:	The project activity, being a zero-emission activity, does not cause any project emissions. Hence no data need to be covered to monitor the project emissions. The monitoring methodology only requires monitoring of the net electricity generation from the proposed project activity in order to calculate the baseline emissions. Data to recalculate the operating margin emission factor or the build margin emission factor are not needed, as both will be recalculated once at the beginning of each subsequent crediting period.

Contribution to Sustainable Development:

An Environmental Impact Assessment acknowledges that the proposed project is characterized by its intensive ecological status as well as its educational value as a means of developing and shaping the consciousness of the citizens and the public opinion in general, towards the Renewable Sources of Energy, and that it is fully compatible with the Government's policy concerning its international and European obligations and commitments.

This project helps to:

- reduce CO₂-emissions and other air pollutants by implementing of renewable energy technology,
 - improve the infrastructure in the vicinity of the project, also in order to attract visitors for teaching purposes on environmental issues and to
 - create local employment during the construction and later for the maintenance and operation of the wind farm, thus building and strengthening local knowledge and experience in this new technology.
- Thus the project contributes to the sustainable development of the Cypriot power generation system.

Economic data:

Economic data:

IRR will be risen by approximately 2.02 %

Financing:

commercial financing (banks and investors)

Additional Information

Printed or electronic reports or other literature available:

Title: Project Design Document

Cost: -

Address for download of electronic document:

<http://cdm.unfccc.int/Projects/DB/TUEV-SUED1158659001.38/view.html>

Project Website: -

Photo Library

Pictures:



View on the wind farm site from south-east (Source: Wincono)

Contact information

(to be duplicated for each contact for this project):

Type of Organisation:	Developer / Operator of wind farms and other renewable energy installations
Technology keyword(s) specific to this organisation:	CDM project proponent
Organisation / Agency:	Wincono Cyprus Ltd.
Main contact	Sylvia Trabert
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Web Site:	www.wincono.de

Description of the Organisation for inclusion in the database of Technology and Service Providers:

Project development and realisation of wind energy projects; commercial and technical (service and maintenance) operation of wind farms. The company is a Cypriot-German-joint venture with the German WINCONO group which realized and operates wind farms of some 100 MW in Germany.

Type of Organisation: service provider

Technology keyword(s) specific to this organisation: CDM project consultant

Organisation / Agency: FutureCamp GmbH
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Description of the Organisation for inclusion in the database of Technology and Service Providers:

Consultancy dealing with all issues concerning emissions trading and emission reduction projects. Support of JI-, CDM- and voluntary projects to compensate CO₂ emissions. Experience with several GHG-projects since 2001 that follow the rules of the Kyoto-Protocol, the Marrakesh Accords and other decisions of the relevant bodies. Currently FutureCamp is involved in the development of over 20 JI and CDM projects in various stages of development in the following countries and technology areas:

- Brazil, China, Cyprus, Ecuador, France, Germany, Poland, Romania, Sri Lanka
- Coal mine methane, district heating, efficiency improvement (power generation and use), fuel switch, land fill gas utilization, renewable energy (bio-fuels, biogas, biomass, geothermal and wind energy), transportation, waste management, waste water treatment

Extensive work in preparation and implementation of EU-ETS inside companies as well as in discussion rounds.

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