SPECIAL PROJECT INTERIM REPORT

Interim Reports should be 2 to 10 pages in length, depending on importance of the project. All the following mandatory information needs to be provided.

Reporting year 2006

Project Title: Evaluation of the global potential of energy towers (SPDEGPET)

Computer Project Account: SPDEGPET

Principal Investigator(s): Dr. Gregor Czisch

Affiliation: IEE-RE / Universität Kassel / Wilhelmshöher Allee / D 34121 Kassel

Name of ECMWF scientist(s) collaborating to the project (if applicable) -

Start date of the project: 2001

Expected end date: -

Computer resources allocated/used for the current year and the previous one (if applicable)
Please answer for all project resources

		Previous year		Current year	
		Allocated	Used	Allocated	Used
High Performance Computing Facility	(units)	100	0	100	0
Data storage capacity	(Gbytes)	20	0	20	0

The full Report for the last research period is available in the internet.

Evaluation of the potential of electricity and desalinated water supply by using technology of "Energy Towers" for Australia, America and Africa
http://www.iset.uni-kassel.de/abt/w3-w/projekte/ECMWF-IR-SPDEGPET200605.pdf

Summary of project objectives

(10 lines max)

The goal of this study is to incorporate the important parameters that affect the power production of an Energy Tower into a model capable of calculating the “Energy Tower potential” for an entire world region across a whole year. Here, we evaluate two aspects of the potential of Energy Tower, the net power production and the energy production cost.

Summary of problems encountered (if any)

(20 lines max)

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Summary of results of the current year (from July of previous year to June of current year)

This section should comprise 1 to 8 pages and can be replaced by a short summary plus an existing scientific report on the project

In the past we made an evaluation of the potential of electricity and desalinated water supply by using technology of "Energy Towers" for Australia and America. In the last research year we made an evaluation of the potential of electricity, the net power production and the energy production cost, for North Africa and South Africa.

The full Report for the last research period is available in the internet.

Evaluation of the potential of electricity and desalinated water supply by using technology of "Energy Towers" for Australia, America and Africa
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List of publications/reports from the project with complete references

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Summary of plans for the continuation of the project

(10 lines max)

In order to finish the whole picture we'll concentrate in the future in Asia, especially, India, Pakistan and the Middle East. This picture can point out the best potential sites in each region.