

Information day 4 April 2008

The technical aspects

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European Commission Directorate General for Energy and Transport Innovation and technological development in energy unit

Directorate-General for Energy and Transport



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Traditional sectoriar approach

Renewable energy Sources



Energy Efficiency

2



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Typical characteristics of a CONCERTO Community

CONCERTO community should: A typical

- already have plans for sustainable development
- enjoy a strong political commitment
- work towards ambitious goals
- produce visible and recognisable impacts

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6

Types of CONCERTO Communities

- Urban
- Isolated
- New
- Under refurbishment, or development
- Part of a city, small town, group of villages

Must be clearly defined geographical areas/zones





Example of rural community and its boundaries







CONCERTO **Community Data Sheet (CDS)**

To be completed for each community project **Provides** :

- 1. information on the Community
- 2. its energy targets

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- 3. Overview of the project components
- 4. Their total, eligible cost and support

Included in the Guidance note

for CONCERTO propo

Number and size of the CONCERTO Communities

Single-community & muli-community projects acceptable

Projects which could make an impact at EU level, not due to their size but to their research / innovation excellence and visible results

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10



st component **Eco-buildings**

13

Larger scale than single eco-bluilding projects

Holistic design approach

Priority to refurbished / retrofitted buildings + +

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Energy consumption of CONCERTO ecobuildings :

refurbished / retrofitted buildings < National regulations for new buildings

New buildings at least 30% lower that National regulations for new buildings

Building Energy specification table (BEST)

To be completed for each building type

Provides:

1. Specifications of building elements

2. Building's energy performance

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3. Building's energy use

15

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Renewable Energy Sources

nd component

Eligible Renewable energy sources are:

renewable non-fossil

sources, such as:

- wind energy
- solar energy
- hydroelectric power
- biomass energy
- landfill gas energy
- biogas and sewage treatment gas energy
- geothermal energy
- wave energy
- tidal energy

NEW installations –substantial increase in the share of RES

Integration

Technologies - Components - Systems

1. Conceptual integration

- RES and EE are combined in order to optimize the system's performance
- Green energy should not just replace conventional sources. This should be done in more EE systems.

2. Physical / Technical integration

Production connected to consumption through a network and controlling mechanisms

Monitoring activities 1

Monitoring activities 2

Important lack of real data in the EU on :

Proven and reliable technical solutions Achieved / measured energy performance Actual investment costs

Minimum requirements for CONCERTO projects

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- 1. Technical monotoring
- Included in the Guidance note 2. Non technical monitoring

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Focus on Research Excellence and Innovation

projects should demonstrate innovation leading to highly improved cost effectiveness via:

Improvements In the individual technologies

and/or

 Innovative integration of the different technologies, components or systems

CONCERTO III vs CONCERTO II

Same principle

- More emphasis to the Research and technological excellence and innovation levels
- Scale of unit cost is introduced for the eligible costs of the projects.
- Minimum requirements for the monitoring of the projects are provided.
- Revised forms (BEST and CDS)

What costs are eligible for

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As a principle :

Eligible costs are limited to the innovative parts / additional effort

"normal homework" is not eligible (e.g. Buildings meeting current regulations)

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Flat rate financing in the form of scale of unit costs CONCERTO For

100
s 1200
5500
500

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Composition of consortia

Evidence of strong commitment from :
Local authorities , local market actors, decision makers

Consortia also typically include:

- Utilities ESCOs
- Energy technology/service providers
- Socio-economists
- Research organizations
- Energy users

Associated Communities in CONCERTO

- **•**Participate in the project
- Do not receive EC support for demonstration actions
- have a clear role in the project
- Are committed to develop their own local energy policies and plans

Is it a CONCERTO project

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Frequent weaknesses of proposals (technical)

- Absence of one of the compulsory components (usually integration)
- Large imbalance between supply demand
- Scattered sub-projects
- Conditional project parts
- Not beyond commercial practices
- No monitoring of energy flows impacts
- No ambitious targets /no substantial impact

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Frequent weaknesses of proposals (non-technical)

- Unclear / imprecise /unstructured/ incomplete information
- Too large documents, difficult to read

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Considering to apply for

CONCERTO

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Suggested first steps

- Become familiar with FP7 rules
- Read call text carefully
- Read Guidance note for CONCERTO proposers
- Find partners
- Complete draft CDS and BEST tables
- Discuss principle with NCP's or EC officers

Today, 46 CONCERTO communities in 18 projects

act2 Hannover Nantes cRRescendo Ajaccio Almere Milton Keynes Vildecans ECO-City Helsingborg Helsingør Trondheim Tudela ECOSTILER Amsterdam London Måbjerg energy in minds! Falkenberg Neckarsulm Weiz Gleisdorf Zlin POLYCITY Cerdanyola del Vallès RENAISSANCE Lyon Zaragosa SESAC Grenoble Delft Vaxio **Tetra Ener** Genera San Sebastian

Green Solar Cities Kuben Salzburg SORGER Hillerod Apeldoorm SEMS Weilerbach Tulln Redange. Slubuce HOLISTIC Dundalk Mödling Neuchatel Class 1 Stenloese **Concerto AL Piano** Allessandria SERVE Serve Region STACCATO REMINING-LOWEX Heerlen Zagorje

What is Concerto plus?

- Service contract awarded to a group of companies with complementary competences.
- Supports the European Commission and contributes on scientific, technical and policy levels.

CONCERTO Plus includes:

- coordinated analysis,
- Collection of monitoring and dissemination of the results
- strengthening of networking between the participants
- facilitating the transfer of best practices across the EU

CONCERTO Plus adds value to the CONCERTO projects

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36

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* CONCERTO **TEAM**

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More information

Homepage DG Energy and Transport Guidance note for CONCERTO proposers

http://ec.europa.eu/dgs/energy_transport/rtd/7/index_en.htm

WEB SITES

FP7 Cordis homepage: www.cordis.europa.eu Concerto Plus : http://concertoplus.eu ManagEnergy : www.managenergy.net

CONCERTO mail box

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Logistics

- 10:30 11:00 Coffee break
- 11:00 11:30 RTD instruments and contractual aspects
- 11:30 12:30 Bilateral meetings with EC officials & informal networking around thematic tables
- 12:30 14:00 Lunch and bilateral meetings with EC officers
- 14:00-17:00 Informal networking sessions (cont.)

