

Information Day  
18<sup>th</sup> June 2003  
*Concerto*

Speaker:  
**W. Gillett**  
in collaboration with  
G. Willbold; J.M. Bemtgen;  
S. de Royer; H. Pauwels;  
K. Kotronaros

WHAT IS CONCERTO ?

CONCERTO will support concrete initiatives of local communities working towards a completely integrated energy policy, harmonizing a substantial use of RES with innovative technologies and systems to minimize energy consumption and to improve the quality of citizens' lives.

WHAT IS A CONCERTO COMMUNITY ?

A CONCERTO community is a Local community

- in which politicians, planners, developers and citizens
- actively co-operate to develop and demonstrate
- high degrees of decentralised energy supply
- from various sources of renewable energy,
- together with a conscientious application
- of the leading energy efficiency measures
- in a symbiotic way

How can my Community Benefit from CONCERTO?

Global:

- contribute to EU objective - 12% of RES
- CO<sub>2</sub> reduction
- security of EU energy supplies

Local:

- reduce energy consumption (and costs),
- create local employment and wealth,
- increase local control,
- improve the local quality of life,
- support sustainable development, ..

Typical characteristics of a CONCERTO Project

A typical CONCERTO project should ideally involve 3 communities :

- of a representative size (1.000 - 100.000 citizens or equivalent)
- in 3 different countries
- working together towards shared ambitious goals
- produce visible and recognisable impacts
- enjoy a strong political commitment
- already have plans for sustainable development

SUSTAINABLE DEVELOPMENT PROCESS

Action

Market

CONCERTO

Planning

6 years (max)

10 Years

**Essential elements of a CONCERTO project**

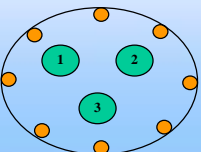
- Demonstration of innovative approaches to the integration of RES and RUE technologies,
- Initiatives to encourage the sharing of policies, plans and experiences between communities,
- Monitoring / analysis / socio-economic research - measurement of energy flows, community performance indicators, progress reporting (common approach for all CONCERTO contracts)
- Targeted dissemination to other Communities
- Replication potential

**Typical consortia will include :**

- Local / regional / municipal authorities
- Utilities / ESCOs
- Energy agencies
- Technology providers
- Energy users
- Research institutes, etc.
- Participation of Accession States is encouraged
- Balanced sharing of effort between partners
- Limited number of contract partners – all active and seriously committed

**Targeted dissemination of Concerto Experience**

●  $\geq 3$  Contractor Communities from 3 different countries  
● Observer Communities (letter of interest; no funding)



**Types of CONCERTO Communities**

- Urban (domestic, industrial),
- Isolated (rural, island)
- Under development or refurbishment,
- Communities in clearly defined geographical areas / zones
- Part of a city, small town, group of villages,

**CONCERTO projects: Technological Requirements**

- Highly efficient energy saving & energy management measures
- Significant increase in the share of RES supply (green electricity, heating / cooling)
- Polygeneration / CHP / district heating (ideally using biomass)
- Eco-buildings integrating the supply side and demand side in a symbiotic way
- Intelligent management / control of distributed generation and grid networks

**Conceptual example (1)**  
**New / retro-fitted urban community in existing city**

- Sustainable development objectives :
  - reduce CO<sub>2</sub> per inhabitant by 50%
  - average building consumption < X kWh/m<sup>2</sup>/yr
  - increase RES supply from 15% to 25%
- Tool: integrated planning (energy, water, and waste)
- Dimension: 8,000 apartments, 20,000 inhabitants, 80% housing, 20% tertiary buildings
- Contract Partners : Municipal authority, developer, local energy agency, heating ESCO, technical institute, residents association

**Conceptual example (1)**  
**New / retro-fitted urban community**  
**in existing city**

**ACTIONS TO BE TAKEN :**

- 100% district heating
- Innovative CHP, with 50% biomass co-firing.
- Roofs to have solar heating and grid connected PV
- Buildings - new measures to control energy demand
- "Intelligent" electricity metering, grids management
- Efficient appliances campaign
- Short term heat storage
- Green electricity contracts with external wind farm
- Social center for awareness and support of inhabitants.

**Conceptual example (2)**  
**Small town and 2 nearby villages**

- Sustainable development objectives :
  - reduce CO<sub>2</sub> per inhabitant by 30%
  - increase RES supply from 50% to 75%
  - 2 new housing developments, 30 new local jobs
- Tools : regional co-operation, integrated planning
- Dimension: 50,000 inhabitants
- Contract Partners : Regional authority, farmers co-operative, regional energy agency, heating ESCO, electricity distribution utility

**Conceptual example (2)**  
**Small town and 2 nearby villages**

**ACTIONS TO BE TAKEN :**

- Green energy citizenship campaign
- Energy efficiency action plan for municipal buildings
- New dwellings - 30% better insulation than regulations, solar heating on all new roofs, PV on 20% of roofs
- New farmer co-operative to grow wood for energy
- CHP using 100% biomass to heat new dwellings
- New ESCO to manage supplies of wood to CHP plant and wood chips for heating in existing dwellings
- New local wind farm - funding by local co-operative

**Conceptual example (3)**  
**Island**

- Sustainable development objectives :
  - energy autonomy (increase from 60% to 100%)
  - 25 new local jobs
- Tools : new support scheme for RES and RUE investments, Energy plan,
- Dimension: 10,000 inhabitants
- Contract Partners : Island authority, farmers co-operative, island utility, wind turbine installer

**Conceptual example (3)**  
**Island**

**ACTIONS TO BE TAKEN :**

- Replace old wind turbines by larger on and off-shore wind parks (plan for 20 % export to mainland)
- Innovative management of island electricity grid
- Retro-fit dwellings - 30% better insulation than codes
- Retro-fit of solar heating to all roofs
- Add PV to all public and all air conditioned buildings
- Enhanced energy management in all public buildings
- New local initiative to promote growing energy crops

**Conceptual example (4)**  
**Town, developing new business**  
**and industrial parks**

- Sustainable development objectives :
  - visibility and image to attract industry investment
  - high quality offices for SME's to create jobs
  - local community commitment to better environment
- Tools : Strict development rules, commitment to best practices in industrial energy efficiency and use of RES
- Dimension: 70,000 inhabitants (or equivalent)
- Contract Partners : Municipal authority, industry and business park developers, chamber of commerce, local energy agency, lighting controls manufacturer, university

**Conceptual example (4)**  
**Town, developing new business and industrial parks**

**ACTIONS TO BE TAKEN :**

- Establish a new ESCO
- High efficiency lighting and appliances, managed by intelligent energy control systems
- Tri-generation plant (using biomass) for electricity, district heating and cooling, and process freezing
- Retro-fitting of existing office buildings to improve natural ventilation, daylighting and lighting controls.
- Wood pellet and solar heating for off-network demands
- Heat and cold storage for community networks

**CONCERTO**  
**Proposals should include :**

- Description of CONCERTO objectives
- Description of communities\* :
  - \* existing - before and after the project
  - \* new – how it is better than current practice
- Measurable impacts and results
- Economically acceptable investments
- RES electricity and heating / cooling
- RUE in buildings, industry, CHP, and networks
- Innovative integration of new technologies

**Possible SCENARIO**  
**for first CONCERTO Call**

- FP6 budget for 1<sup>st</sup> CONCERTO Call : ~ 75 Million €
- 5 to 15 Million € of EC support per contract
- 25 - 30 proposals submitted
- 8 - 10 contracts awarded (~ 3 communities in each)
  - ⇒ 25-30 CONCERTO communities (~ 1 per MS / AS)
- 35% max for demonstration
- Total eligible costs for the 1<sup>st</sup> Call > 200 Million €
- CONCERTO mobilises investment ~ 2 Billion €

**CONCERTO Proposals :**  
**points to remember**

- Submission Deadline 17 December 2003 (to be here in Brussels at specified address)
- IP's are most appropriate for CONCERTO, since it focuses on integration - STREP proposals for integration of RES will have "low priority"
- Budget breakdowns for CONCERTO must include FULL CONTRACT DURATION (not just the first 18 months)
- Targeted dissemination plan
- Sustainable monitoring / assessment

**CONCERTO proposals :**  
**Evaluation Criteria**

**Normal FP6 evaluation criteria apply :**


- relevance, - potential impact, - S&T excellence,
- quality of consortium, - quality of management,
- mobilisation of resources

**Prioritise between excellent proposals on :**

- Replication potential
- Credible, quantified benefits for the local community and its citizens eg: quality of life (health, comfort), environment, jobs
- Credible evidence of sustainability
- Cost effectiveness of the impacts

**CONCERTO Call :**  
**Communication Plan**

- Brussels Info' days (18 June, 24 Sept, ..)
- Web streaming
- National Info' days
- National Contact Points, CORDIS, ..
- Brochure
- CONCERTO web site (slides, proposal fiches for partner search, EC texts, ..)
- CONCERTO mailbox (e-mail)
- Bilateral discussions : EC officials / proposers
- CONCERTO "web chat" - 26 June , 10h00 to 11h00



**More Information**

**MAILBOX**

- [TREN-concerto@cec.eu.int](mailto:TREN-concerto@cec.eu.int)

**WEB SITES**

- [www.managenergy.net/](http://www.managenergy.net/)
- [europa.eu.int/comm/dgs/energy-transport/](http://europa.eu.int/comm/dgs/energy-transport/)

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