

European Sustainable Energy Communities: Effective integrated Energy Action today (Sustainable Now) - Contract Number: IEE/07/752/SI2.499210

2nd Circle of Learning – Circle of Excellence Exchange Meeting, Woking 27. February 2009

9.00 Session: Learning from Woking:

What do you consider good practice in Woking?

| Good practice | Remarks/Reasons | Suggested by | No. of supports |
|--|---|------------------|-----------------|
| Intracting and financing, Oak Tree House, 100 Sustainable homes | Money for Sustainability, Thameswey1 support show to house owners what is possible / information / behavioral change good, but could be even more innovative (Chiel) | Ludwigsburg | 1 |
| PV-Plants | Good for awareness raising | Miskolc | 1 |
| esco | Good, but could be used even better (extension to private sector) | Siena | 2 |
| Continuity in political strategy | Strategy in partnership with administration | CA21L | 3 |
| Demand side management | Marketing strategy to communicate climate change solutions | Bologna | |
| From individual projects to large scale application | | Trecodome BV | |
| Town Center Energy Station | Good for awareness raising | ICLEI | |
| Involvement/Engagement of citizens | | Burgas | |
| Development of long-term winning approach towards sustainability | Good chain of value | Burgas | 1 |
| Lightbox | Aspects of energetic and social benefits, Communication | Comunita Montana | |
| Climate Change Work Group | Involvement of top managers in administration | Woking | 1 |

Clusters of Wokings ,good practices‘

Sustainable Political Consensus Strategy

- Continuous political commitment
- Climate Change Working Group

- From individual projects to large scale application
- Long term winning approach

Sustainable Financing

- Intracting
- Money for sustainability, financing, funds, Thameswey
- esco

Technological Innovation:

- Town Center Energy Station
- PV Plants

Innovative Awareness Raising Measures

- Involvement/Engagement
- Marketing, Communication, Demand Side Management
- Oak Tree House, 1000 Sustainable Homes
- Lightbox

Task/Questions

1. What do you consider key success factors in Woking?
2. Do you have any recommendation for Woking to further their approach?
3. Could you transfer Wokings examples to your city? What are your challenges, opportunities, needs to do so?

| | Political Commitment | Sustainable Financing | Technological innovation | Innovative Awareness raising measures |
|------------------------|--|---|----------------------------------|---|
| Success Factors | Long-term commitment | Strong relationship between financial aspects and political commitment | Start early | We think, there is more than we have seen.... |
| | Ability to convince that this is a win-win situation | Strong financial commitment of local government | Create esco | Oak Tree House practical demonstration |
| | Good connection between politicians and administration | Low cost lending by council | Technological partner | Oak Tree House: Training for schools and visit of groups |
| | Strong structure between partners | Company set-up | Municipality welcomes technology | Communication: Place information all around the city |
| | Stable political situation | Low energy price for users of esco (HR: deviating position of plenary: appropriate/just energy price for users) | | Personal Engagement of Woking staff (Ray, John, Lara, Tim ...) |
| | Key persons must want this/must be convinced | Profits reinvested in sustainable actions | | Diagramm Lightbox +++ |
| Recommendations | Strengthen technological links | Waste? Recovery and waste management | Building management | Copy Oak Tree House (technology) and see effect in energy and water-bills |
| | Steering Committee | Banca Etica project | Benefits/support for residents | Oak Tree House: improve and add information about windows |

| | Political Commitment | Sustainable Financing | Technological innovation | Innovative Awareness raising measures |
|--------------------------------|---|--|---------------------------------|--|
| | Think about future structure and position of sustainability within administration | Citizens as shareholders | Less administrative barriers | Information on a website – virtual Oak Tree House visit |
| | Strengthen political links with business, finance and economy | | | Publish Oak Tree House information as a leaflet/pdf |
| | | | | 1000 sustainable homes as a target for every year (38000 !) |
| | | | Public exhibitions | Communication strategy |
| | | | Link industry to residents | Communication strategy must include all target groups (professionals, supplier, ...) |
| | | | | Symbol (star): who does energy saving / PV ... |
| | | | | Local award for retrofitted houses and energy saving activities |
| | | | | Improvement of demand side management (private and public buildings) |
| Challenges for transfer | Building a common vision for a sustainable future | Transfer the energy market frame | Long-term plan | Oak Tree House in EU-cities (money, neutrality) |
| | Challenge between local and national political vision | Transfer the esco-model efficiency and success | Cost of gas | 80 % until 2050: 'eating the elephant' |
| | Maybe it will be difficult to transfer the model of political commitment | | Appropriate buildings | Raise awareness of producers (e.g. stand-by) |
| | | | Realising projects | Strategy for demand side management (heating and electricity) |
| | | | | Energy saving as status symbol |
| | | | | More information about energy consumption of products |
| Opportunities | LEAP best practice | Feasibility of the model | Find partnership for esco | All recommendations and challenges are also opportunities |
| | Adaptability of value added chain of sustainability | | | |
| | Adapt learning points to suit local situation | | | |
| | Key players can help transfer and support learning | | | |
| | Long-term masterplan | | | |

11.00 hrs : Prioritizing needs (according to city/region)

Ludwigsburg

Bologna

Burgas

Rosignano

Miskolc

Comunita Montana

Siena

Woking

| City-Partner | Needs of highest priority | | | | | | |
|------------------|--|--|--|--|---|--|--|
| Rosignano | Database: Share: Nature data Measure / Method /Calculation / update | How to define targets: single targets, LEAP targets | Integrate LEAP in/with other regulations | Compare Strategies for Dissemination and define a common one | Data-base of best practice (examples) | | |
| Burgas | Methodology for establishing database | Realistic Targets | Indicators: Monitoring of effects/impacts | Technology/Innovations | Financing: escrow, PPP | | |
| Miskolc | Methodology of data collection (reason: lack of energy-related database) | Tool for determining the CO2-emissions in the city (Reason: we have only roughly estimated data) | Methodological help for setting LEAP-targets | Identification of (LEAP-)indicators | LEAP wizard: question of implementation and financing | | |
| Comunita Montana | Quality criteria for a LEAP as Sustainable Now-LEAP | Input data and validation criteria of data and implementation for the LEAP – Sustainable Now | Technical and expert (knowledge) support to the LA 21 Energy forum | Continuous technical support from the EU-partners to local staff of C.M. | Communication strategy and tool definition and support | | |
| Woking | Case study examples of energy efficiency in municipal buildings | Ginafranco's school programme case study | Trecodome passive-house case study (new build and renovation) | European Good practice in sustainable transport and cycling initiatives | Expertise in sustainable waste management & waste to energy | | |

| City-Partner | Needs of highest priority | | | | | | |
|----------------|--|---|--|---|---|---|--------------------------------------|
| Siena Province | Sharing experiences on biomass in short-distance chain | Sharing experiences on heolic and mini heolic | Sharing reduction saving energy monitoring data | Development of new solutions to insert PV-Plants and other RE-plants in the landscape | | | |
| Bologna | Lack of data: Local fuel consumption Electricity consumption (for single user) | Build common data-base of action with cost indication | Link data on air quality to CO2-emission data | Strengthen introduction of effective norms to fit commitments | Effective actions on existing buildings | More efficient district heating with solar thermal (vs. cogeneration) | Monitoring through simple indicators |
| Ludwigsburg | Data – which ones are needed by everyone in the project | Good experiences in working together with economy, research, NGO's (eg. Center of competence to be build in Ludwigsburg) | Indicators: good experiences from other partners | Financial support for concrete projects (not of municipality) by Banca Etica and other partners | Communication Strategy: Find good practices: eg. Peer-to-peer review with city council and staff members (Ludwigsburg/Munich) | | |

14.00 hrs: Coordination issues

14.30 hrs: Linking support to needs (according to city/region and cluster)

Dissemination & Communication

Technological experiences

Financing/Cost information

Develop LEAP

Data management

Capacity Development

Definition of Reduction Targets

Indicators

| City/Region | Needs | | | | | | |
|------------------|---|--|--|--|---|--|--|
| Rosignano | Database: Share: Nature data Measure / Method / Calculation / update | How to define targets: single targets, LEAP targets | Integrate LEAP in/with other regulations | Compare Strategies for Dissemination and define a common one | Data-base of best practice (examples) | | |
| Burgas | Methodology for establishing database | Realistic Targets | Indicators: Monitoring of effects/impacts | Technology/Innovations | Financing:ESCO, PPP | | |
| Miskolc | Methodology of data collection (reason: lack of energy-related data-base) | Tool for determining the CO2-emissions in the city (Reason: we have only roughly estimated data) | Methodological help for setting LEAP-targets | Identification of (LEAP-)indicators | LEAP wizard: question of implementation and financing | | |
| Comunita Montana | Quality criteria for a LEAP as Sustainable Now-LEAP | Input data and validation criteria of data and implementation for the LEAP – Sustainable Now | Technical and expert (knowledge) support to the LA 21 Energy forum | Continuous technical support from the EU-partners to local staff of C.M. | Communication strategy and tool definition and support | | |
| Woking | Case study examples of energy efficiency in | Ginafranco's school programme case study | Trecodome passive-house case study (new build and renovation) | European Good practices in sustainable transport and cycling initiatives | Expertise in sustainable waste management & waste to energy | | |

| | | | | | | | |
|----------------|--|--|--|---|---|---|--------------------------------------|
| | municipal buildings | | | | | | |
| Siena Province | Sharing experiences on biomass in short-distance chain | Sharing experiences on heolic and mini heolic | Sharing reduction saving energy monitoring data | Development of new solutions to insert PV-Plants and other RE-plants in the landscape | | | |
| Bologna | Lack of data: Local fuel consumption Electricity consumption (for single user) | Build common data-base of action with cost indication | Link data on air quality to CO2-emission data | Strengthen introduction of effective norms to fit commitments | Effective actions on existing buildings | More efficient district heating with solar thermal (vs. cogeneration) | Monitoring through simple indicators |
| Ludwigsburg | Data – which ones are needed by everyone in the project | Good experiences in working together with economy, research, NGO's (eg. Center of competence to be build in Ludwigsburg) | Indicators: good experiences from other partners | Financial support for concrete projects (not of municipality) by Banca Etica and other partners | Communication Strategy: Find good practices: eg. Peer-to-peer review with city council and staff members (Ludwigsburg/Munich) | | |

Linking support to needs (according to cluster)

Ludwigsburg

Bologna

Burgas

Rosignano

Miskolc

Comunita Montana

Siena

Woking

| Data management | Definition of Reduction Targets | Indicators | Develop LEAP | Financing/Cost information | Technological experiences | Capacity Development | Dissemination & Communication |
|------------------------------------|----------------------------------|-----------------------------|--------------------------------------|------------------------------------|--------------------------------|----------------------------------|-----------------------------------|
| Ludwigsburg: Data – which ones are | Miskolc: Methodological help for | Bologna: Monitoring through | C.M.: Quality criteria for a LEAP as | Ludwigsburg: Financial support for | Burgas: Technology/Innovations | Ludwigsburg: Good experiences in | Rosignano: Compare Strategies for |

| Data management | Definition of Reduction Targets | Indicators | Develop LEAP | Financing/Cost information | Technological experiences | Capacity Development | Dissemination & Communication |
|---|--|---|--|---|---|--|--|
| needed by everyone in the project | setting LEAP-targets | simple indicators | Sustainable Now-LEAP | concrete projects (not of municipality) by Banca Etica and other partners | | working together with economy, research, NGO's (eg. Center of competence to be build in Ludwigsburg) | Dissemination and define a common one |
| Bologna: Lack of data: Local fuel consumption Electricity consumption (for single user) | Burgas: Realistic Targets | Burgas: Indicators: Monitoring of effects/impacts | Miskolc: LEAP wizard: question of implementation and financing | Burgas: Financing: esco, PPP | Siena: Sharing experiences on heolic and mini heolic | Woking: Gianfranco's school programme case study | Ludwigsburg: Communication Strategy: Find good practices: eg. Peer-to-peer review with city council and staff members (Ludwigsburg/Munich) |
| Siena: Sharing reduction saving energy monitoring data | Rosignano: How to define targets: single targets, LEAP targets | Miskolc: Identification of (LEAP-)indicators | Rosignano: Integrate LEAP in/with other regulations | Bologna: Build common data-base of action with cost indication | Woking: Trecodome passive-house case study (new build and renovation) | C.M.: Continuous technical support from the EU-partners to local staff of C.M. | C.M.: Communication strategy and tool definition and support |
| Miskolc: Methodology of data collection (reason: lack of energy-related data-base) | | Ludwigsburg: Indicators: good experiences from other partners | Strengthen introduction of effective norms to fit commitments | | Woking: European Good practice in sustainable transport and cycling initiatives | C.M.: Technical and expert (knowledge) support to the LA 21 Energy forum | |
| Miskolc: Tool for determining the CO2-emissions in the city (Reason: we have only roughly estimated data) | | | | | Woking: Case study examples of energy efficiency in municipal buildings | | |
| Bologna: Link data on air quality to CO2-emission data | | | | | Siena: Sharing experiences on biomass in short-distance chain | | |
| C.M.: Input data and validation | | | | | Siena: Development of new | | |

| Data management | Definition of Reduction Targets | Indicators | Develop LEAP | Financing/Cost information | Technological experiences | Capacity Development | Dissemination & Communication |
|--|---------------------------------|------------|--------------|----------------------------|--|----------------------|-------------------------------|
| criteria of data and implementation for the LEAP – Sustainable Now | | | | | solutions to insert PV-Plants and other RE-plants in the landscape | | |
| Burgas: Methodology for establishing database | | | | | Working: Expertise in sustainable waste management & waste to energy | | |
| Bologna: Build common data-base of action with cost indication | | | | | Bologna: More efficient district heating with solar thermal (vs. cogeneration) | | |
| Rosignano: Database: Share: Nature data Measure / Method /Calculation / update | | | | | Bologna: Effective actions on existing buildings | | |
| | | | | | Rosignano: Data-base of best practice (examples) | | |

| Data management - needs | Support offered |
|---|--|
| Ludwigsburg: Data – which ones are needed by everyone in the project | |
| Bologna: Lack of data: Local fuel consumption Electricity consumption (for single user) | Bologna: PEC 2007 Action Plan Climate Alliance: CO2 Monitoring Workshop Rosignano: can give model for Building energy consumption ICLEI: International GHG protocol |
| Siena: Sharing reduction saving energy monitoring data | |
| Miskolc: Methodology of data collection (reason: lack of energy-related data-base) | |
| Miskolc: Tool for determining the CO2-emissions in the city (Reason: we have only roughly estimated data) | |
| Bologna: Link data on air quality to CO2-emission data | |
| C.M.: Input data and validation criteria of data and | |

| Data management - needs | Support offered |
|---|-----------------|
| implementation for the LEAP – Sustainable Now | |
| Burgas: Methodology for establishing database | |
| Bologna: Build common data-base of action with cost indication | |
| Rosignano: Database: Share: Nature data Measure / Method /Calculation / update | |
| | |

| Definition of Reduction Targets | |
|--|---|
| Miskolc: Methodological help for setting LEAP-targets | ICLEI CCP information |
| Burgas: Realistic Targets | Woking: will add their Climate Change Strategy Action Plan to Sustainable Now-website Ludwigsburg will share targets from their – area energy Be ambitious: EU targets 20 % by 2020 |
| Rosignano: How to define targets: single targets, LEAP targets | Bologna: PEC 2007 Action Plan Target Comunita Montana: We offer an experimental platform to define the reduction targets (Forum) |
| | |

| Indicators | |
|---|--|
| Bologna: Monitoring through simple indicators | Climate Alliance: Provide indicators ICLEI: Indicators of Urban Ecosystem (developed by Ambiente Italia) |
| Burgas: Indicators: Monitoring of effects/impacts | Bologna: ecoBudget indicators (energy and climate) Ludwigsburg: information about planned indicators in Ludwigsburg |
| Miskolc: Identification of (LEAP-)indicators | Woking: will add to Sustainable Now website national indicator definitions for climate change |
| Ludwigsburg: Indicators: good experiences from other partners | ICLEI: Session at Burgas project workshop “What data is needed for Sustainable Now”? |
| | |

| Develop LEAP | |
|--|---|
| C.M.: Quality criteria for a LEAP as Sustainable Now-LEAP | ICLEI: Guidance papers on integrated management Siena: LEAP example Climate Alliance: Climate compass leaflet |
| Miskolc: LEAP wizard: question of implementation and financing | Ecovision: Wizard tool development |
| Rosignano: Integrate LEAP in/with other regulations | Ludwigsburg can inform about the city development plan (website) and the newly established department of sustainable development |
| Bologna: Strengthen introduction of effective norms to fit commitments | Bologna: The integration between Energy Plan (PEC) and Urban Plan (Master plan) in Bologna CA21L, ICLEI, Climate Alliance: LEAP examples in Europe |
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| Financing/Cost information | |
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| Ludwigsburg: Financial support for concrete projects (not of municipality) by Banca Etica and other partners | Ecovision: Information on community-owned energy plants |

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| Financing/Cost information | |
| Burgass: Financing: esco, PPP | Woking will provide case study on financing mechanisms including ESCO |
| Bologna: Build common data-base of action with cost indication | Bologna: Audit Public Building (Simulation of intervention with cost indication with examples on financing, pay-back |
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| Technological experiences | |
| Burgas: Technology/Innovations | Woking: will provide case studies on 4 energy projects |
| Siena: Sharing experiences on heolic and mini heolic | |
| Woking: Trecodome passive-house case study (new build and renovation) | Trecodome passive-house case study (new build and renovation) – presentation in Burgas and 4-pages paper |
| Woking: European Good practice in sustainable transport and cycling initiatives | ICLEI: could organise a visit to Freiburg or a presentation on some other cases (eg. Kaprovinica) |
| Woking: Case study examples of energy efficiency in municipal buildings | Ludwigsburg: information on examples (case studies on paper) Sogesca/ICLEI/Munich: case studies Munich and Guessing |
| Siena: Sharing experiences on biomass in short-distance chain | ICLEI: presentation of “Make-it B project” ICLEI: information on use of biogas/biomass in short distance chain in Freiburg |
| Siena: Development of new solutions to insert PV-Plants and other RE-plants in the landscape | (Ecovision: scoping options and impacts – need to be verified as they weren't present) |
| Woking: Expertise in sustainable waste management & waste to energy | ICLEI: presentation on waste management / waste to energy solutions in cities (eg. Freiburg) |
| Bologna: More efficient district heating with solar thermal (vs. cogeneration) | Bologna: PEC 2007 (Urban Energy Plan): Analysis and Actions purpose ICLEI: information on SESAC project (Sustainable Energy management systems in advanced cities – an EU Concerto Project Ludwigsburg: examples from the Municipal Energy supplier SWLB |
| Bologna: Effective actions on existing buildings | Ludwigsburg: examples from the Municipal Energy supplier SWLB Bologna: PEC 2007, Audit Public Building Trecodome: scoping demand side measures on buildings and CO2 measures (presentation and 4-page paper) |
| Rosignano: Data-base of best practice (examples) | CA21L: MUSEC (project: Multiplying Sustainable Energy Communities - http://www.musecenergy.eu) shortlist on energy best practices and CA21L publication on Aalborg Commitments Climate Alliance: Document “Solutions for Change) Woking: will share its “Carbon Trust Standard” documentation as example of good practice |

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| Capacity Development | |
| Ludwigsburg: Good experiences in working together with economy, research, NGO's (eg. Center of competence to be build in Ludwigsburg) | Woking: can provide case study on partnership working |
| Woking Gianfranco's school programme case study | Climate Alliance: Document on 50/50 School Programme Bologna: “Kyoto in the home project” Rosignano: “100 Families and 1 School” |
| C.M.: Continuous technical support from the EU-partners to local staff of C.M. | ICLEI: Integrated Management Capacity Development package |

| Capacity Development | |
|--|--|
| | ICLEI: Good practice in Sustainable Procurement (Case studies) |
| C.M.: Technical and expert (knowledge) support to the LA 21 Energy forum | Woking: will post details of LA 21 involvement in energy projects to Sustainable Now – Website Bologna will report detail of purchasing group in Echo-Action Project CA21L can provide contacts with other cities that have already done LA 21 on energy |
| | |

| Dissemination & Communication | |
|--|---|
| Rosignano: Compare Strategies for Dissemination and define a common one | CA21L: Expertise and Communication Tools/ Channels and survey on cities own communication tools ICLEI: presentation on setting up a communication strategy |
| Ludwigsburg: Communication Strategy: Find good practices: eg. Peer-to-peer review with city council and staff members (Ludwigsburg/Munich) | Bologna: Showroom Energy and Environment Bologna, ENRI (Energie Rinnovabili e Risparmio Energetico) exposition CD/web Bologna: www.echoaction.org ICLEI: process coaching integrated management and governance / stakeholder mapping Woking: will share Climate Change Working Group minutes and relevant documents Bologna: ecoBudget |
| C.M.: Communication strategy and tool definition and support | Bologna: ecoBudget Woking: will provide pdf-versions of Oak Tree House Low Carbon Homes communications for residents Comunita Montana: Example of involvement of SME for development / PPP |
| | |

16.15 hrs: Conclusions of study visit and COL-COE exchange