

DRAFT PROGRAMME

LOCAL RENEWABLES FREIBURG 2007
Powerful local action for secure and sustainable energy in Europe

Wednesday, 13 June 2007

08:00 Registration (Exhibition Area Open)
Coffee for Study Tour and Workshop Participants

09:30 – 12:30 Study Tours and Workshops *(in parallel)*

The SolarRegion Freiburg shows a diversity of interesting and exemplary projects and activities of sustainable energy use. The conference programme links up to these from a European perspective.

Tour 1:
Secure, decentralised energy supply

Organiser: City of Freiburg

Badenova Stadium PV array using a local soccer stadium to *engage* the community. This PV array produces 250 kW, enough energy needed in the stadium.

Small hydropower project on the Dreisam river

View of Freiburg's wind turbines: green electricity production in an urban/ rural landscape.

Tour 2:
Solar buildings and low energy districts are cool!

Organiser: Freiburg Futour

Heliotrope: rotating house (demonstration project)

Vauban Passive House: 1st German example of a multi-family housing with 'Passiv Haus' standard

Vauban district heating with bio-energy, an integrated concept

Solar Village Schlierberg: an Energy-Plus residential complex

Tour 3:
Business meets Renewables

Organiser: solar info center

Solar Info Center: a building and business concept (with a view of the PV roof of the Freiburg Trade Fair).

Solar-Fabrik: Europe's 1st zero emission factory for solar modules.

Waste-to-energy: biogas and biomass (examples in Landwasser, Tulla Street and Kahlenberg).

Tour 4:
Solar energy research at the Fraunhofer Institute for Solar Energy Systems (ISE)

Organiser: Fraunhofer ISE

Starts at 10:00 (max. 20 people)

The largest solar energy research institute world-wide has three major R&D topics: photovoltaics, energy efficient buildings, as well as hydrogen technology.

View the institute premises, an exemplary energy-efficient solar building, and join a guided tour through the exhibition area.

<p>Workshop 1: Twin towns and partner cities of Freiburg: exchange and brainstorming on cooperation projects</p> <p>10:00 – 12:30</p> <p>Closed meeting – by invitation only</p> <p><i>Hosted by the City of Freiburg Freiburg Environmental Protection Agency (Thomas Dresel, SolarRegion Freiburg Project Manager) and Energie-Cités (Peter Schilken, Project Manager)</i></p>	<p>Workshop 2: LETIT tool and financing sustainable energy projects</p> <p>10:30 – 12:30</p> <p><i>Hosted by Fraunhofer ISE (Sebastian Gölz, Project Manager) and Forseo (Astrid Grell, Project Manager)</i></p> <p>Training on tools to support communities with 'Local New Energy Technology Implementation (LETIT)', and finance instruments for local authorities to implement sustainable energy projects.</p>	<p>Workshop 3: Introducing the Cities for Climate Protection (CCP) Campaign</p> <p>10:30 – 12:30</p> <p><i>Hosted by ICLEI Europe (Ilaria De Altin, Coordinator Climate & Air)</i></p> <p>The CCP Campaign is a support network for local authorities that are active in climate change mitigation and adaptation. Advanced local authorities or those new to the field are welcome to join.</p>
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12:30 Lunch

14:00 Welcome and Opening: Local governments as key actors

Welcome and a call for action

Dr. Dieter Salomon, Lord Mayor, City of Freiburg and ICLEI Executive Committee Member

The way forward for local authorities – a time for planning and action

Gino Van Begin, Regional Director for Europe, ICLEI - Local Governments for Sustainability

Sustainable energy impacts on security of energy supply, climate protection and local sustainable development

Rian van Staden, Principal Consultant, Intelligent RE

15:00 Local success stories from different European regions

Chair: Ilaria De Altin, Climate & Air Coordinator, ICLEI Europe

The prevailing climate and geographical position impacts on many aspects of daily life. In the context of energy use, it can also influence the use of energy sources (local crops for bioenergy, e.g. wood or sunflowers), the way buildings are constructed (addressing the need for heating and/or cooling) or how urban planning is approached (street design and thermal comfort within cities).

Three exemplary community responses are presented, showing diverse approaches in response to different climatic zones and local requirements, through effective strategies and low carbon measures.

SolarRegion Freiburg: Central European temperate climate

Dr. Dieter Wörner, Head of Environment Protection, City of Freiburg, Germany

Roma Per Kyoto - Sustainable energy in a Mediterranean climate

Claudio Baffioni, Project Manager Roma Per Kyoto Project, City of Rome, Italy

Joint approach by cities in the Helsinki Metropolitan Area - climate protection by reducing energy consumption

Irma Karjalainen, Director Regional and Environmental Information, YTV Helsinki Metropolitan Area Council, Finland

15:50 Coffee break

16:20 Technical overview on sustainable energy options ready for implementation

Chair: *Christine Hornstein, Executive Director, International Solar Energy Society (ISES)*

A wide range of sustainable energy technologies and measures are mature and ready for widespread implementation. European energy experts provide a brief, highly informative introduction on these diverse options that should be considered for local implementation.

- **Low energy buildings: reducing the need for energy** - *Meinhard Hansen, Architekturbüro Meinhard Hansen Freiburg, Germany*
- **Solar thermal systems and photovoltaics** - *Dr. Volker Wittwer, Deputy Director, Fraunhofer Institute for Solar Energy Systems (ISE), Germany*
- **Wind energy: local resource, clean energy, local profits** - *Mikkel Aaro-Hansen, Director, Agency for Environmental Protection, Copenhagen, Denmark*
- **Geothermal energy: extensive potential** - *Marissa Walzer, Business Consultant, Sterr-Kölln & Partner GbR, Germany*
- **Small hydropower: water for energy** - *Luigi Papetti, Engineer, Italian representative of the European Small Hydropower Association (ESHA), Italy*
- **Fuel cell systems and hydrogen: now and the future** - *Dr. Christopher Hebling, Head of Department Energy Technology, Fraunhofer ISE, Germany*
- **The bioenergy chain: energy for buildings, districts and vehicles** – *Gabor Heves, Project Manager, Regional Environmental Center for Central and Eastern Europe (REC), Hungary*

18:00 End of presentations

20:00 Reception at the “Historisches Kaufhaus” hosted by Freiburg (Buffet dinner – dress code: smart casual)

Guest speaker: *Prof. Eicke R. Weber, Director, Fraunhofer ISE*
'Exciting developments in solar research & development (R&D)'

Thursday, 14 June 2007

09:00 Sustainable energy - a critical element in modern urban planning and management

Chair: *Dirk Assmann, Senior Energy Officer, GTZ - German Technical Cooperation*

Securing energy supply, addressing climate protection and local development, should be fostered through an integrated urban management approach, considering land use and infrastructure planning, and using modern energy technologies and efficiency measures.

Combining research, technology, expertise and local action to create Solar Cities

Chiel Boonstra, Secretary General, International Solar Cities Initiative (ISCI)

Low energy district development in Berlin's government quarter

Astrid Schneider, Solar Architect, and representative of the EUROSOLAR e.V. Berlin-Brandenburg

09:45 Local energy policies, strategies and approaches, and the strategic framework needed to support action

Chair: Ralf Bermich, Head of Climate Protection and Energy Management, City of Heidelberg

Strategic introduction to the topics of parallel session A and B, providing an overview of the main elements relevant to these important topics.

A Sessions: 'Local Progress in Practice' - Introductory presentations by moderators

A1: Local leadership, political commitment and targets

Francesco Biciato, Environmental Deputy Mayor, Municipality of Padova, Italy

B Sessions: 'Strategic Framework – Together Tomorrow' - Introductory presentations by moderators

B1: Enabling framework conditions and support structures

Emilio D'Alessio, Deputy Mayor of the City of Ancona and President of Italian Local Agenda 21 Association, Italy

B2: The role of Energy Agencies

Maryke van Staden, Project Officer Climate & Air, ICLEI – Local Governments for Sustainability

10:30 Coffee break

11:00 Parallel Sessions A and B

A sessions: "Practice"

'Local Progress in Practice'

B sessions: "Policy"

'Strategic Framework – Together Tomorrow'

<p>Session A1:</p> <p>Local leadership, political commitment and setting targets</p> <p><i>Moderator: Francesco Bicciato, Municipality of Padova</i></p> <p>Political consensus and a clear path of action in Woking - <i>John Thorp, Managing Director, Thameswey Ltd, Woking, United Kingdom</i></p> <p>Towards a fossil fuel free Växjö - <i>Lars Ehrlén, Manager District Heating-Cooling, Växjö Energy Ltd, Sweden</i></p> <p>European Energy Award: for qualification, certification and awarding of communal energy policy - <i>Helmut Strasser, Programme Manager, Salzburg Institute, Austria</i></p> <p style="text-align: center;">Videotaping</p> <p style="text-align: center;">and</p> <p style="text-align: center;">Simultaneous translation (German / English)</p>	<p>Session B1:</p> <p>Enabling framework conditions and support structures</p> <p><i>Moderator: Emilio D'Alessio, City of Ancona</i></p> <p>Renewable Energy Law: stimulating investment in Germany - <i>Tobias Kelm, Researcher, Centre for Solar Energy & Hydrogen Research (ZSW), Germany</i></p> <p>A national movement for climate change mitigation and adaptation: the Nottingham Declaration Action Pack - <i>Steve Waller, Principal Consultant Sustainable Communities, IDeA, United Kingdom</i></p> <p>The Procura Project - developing a model for joint procurement of clean vehicles - <i>Marieke Reijalt, Procura Project Dissemination Coordinator, Federation of Italian Scientific and Technical Associations, Italy</i></p>	<p>Session B2:</p> <p>The role of Energy Agencies</p> <p><i>Moderator: Maryke van Staden, ICLEI European Secretariat</i></p> <p>Development, support schemes and latest achievements of RES in the Czech Republic – <i>Tomas Kukuczka, Director, Czech RE Agency (CZREA), Czech Republic</i></p> <p>Facilitating energy efficiency through Energy Services - the role of Energy Agencies – <i>Alexandra Waldmann, Project Manager, Berlin Energy Agency, Germany</i></p> <p>The role of the Basel Agency for Sustainable Energy - <i>Jamie Brown, Basel Agency for Sustainable Energy, Switzerland</i></p>
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12:30 Lunch

14:00 Key Partnerships: Business, Research, the Public and Local Authorities

Chair: Wolfgang Teubner, Executive Director, ICLEI - Local Governments for Sustainability

A Sessions (continued): 'Local Progress in Practice' - Introductory presentations by moderators

A2: Sustainable buildings: a reality

Dr. Rajat Gupta, Senior Lecturer and Co-Director, Oxford Institute for Sustainable Development: Architecture, Oxford Brookes University, UK

A3: District energy: heating, cooling and electricity

Venelin Todorov, Deputy Mayor, Municipality of Bourgas, Bulgaria

C Sessions: 'Financing and Facilitating Change' - Introductory presentations by moderators

C1: Contracting models and Public-Private Partnerships (PPPs)

Mark Hidson, Director Sustainable Procurement, ICLEI European Secretariat

C2: Critical role of business

Uwe Ilgemann, CEO, Solarstrom AG, Germany

14:45 Parallel Sessions A and C

A sessions: "Practice"

'Local Progress in Practice'

<p>Session A2: Sustainable buildings: a reality</p> <p><i>Moderator:</i> <i>Dr. Rajat Gupta, Oxford Brookes University</i></p> <p>Passive Housing in Europe, low energy renovation and new housing complexes - <i>Chiel Boonstra, Trecodome, Netherlands; Secretary General of the International Solar Cities Initiative (ISCI)</i></p> <p>Energy efficiency measures in the public building sector: the DEEP project - <i>Philipp Tepper, Project Officer Sustainable. Procurement, ICLEI Europe</i></p> <p>Mediterranean example of local large-scale implementation of the European Directive on Energy Performance of Buildings - <i>Paolo Ferri, Head of Energy Department, Province of Reggio Emilia, Italy</i></p>	<p>Session A3: District energy - heating, cooling and electricity</p> <p><i>Moderator:</i> <i>Venelin Todorov, Municipality of Bourgas</i></p> <p>Wind energy as part of local energy change – <i>Andreas Markowsky, Director, Ökostrom Erzeugung Freiburg GmbH, Germany</i></p> <p>Small hydro success stories – <i>Luigi Papetti, Engineer, Frosio Associates, Italy</i></p> <p>Polygeneration in Växjö, beneficial for all: customers, environment and energy company – Towards a fossil fuel free Växjö – <i>Lars Ehrlén, Manager District Heating-Cooling, Växjö Energy Ltd, Sweden</i></p> <p style="text-align: center;">Videotaping</p> <p style="text-align: center;">and</p> <p style="text-align: center;">Simultaneous translation</p>
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C sessions: "Partnership"

'Financing and Facilitating Change'

<p>Session C1: Contracting models and Public-Private Partnerships (PPPs)</p> <p><i>Moderator:</i> <i>Mark Hidson, ICLEI European Secretariat</i></p> <p>Austin's GreenChoice: a model for Green Pricing - <i>Mark Kapner, Senior Strategy Engineer, Energy Services, City of Austin, USA</i></p> <p>Performance contracting and public participation project examples: Eco_WATT school and Solarspar - <i>Dieter Seifried, CEO, Büro Ö-Quadrat, Germany</i></p> <p>Surface geothermal project examples - <i>Jürgen Lange-von Kulesa, Wärmekontor Freiburg, Germany</i></p>	<p>Session C2: The critical role of business and the public</p> <p><i>Moderator:</i> <i>Uwe Ilgmann, Solarstrom AG</i></p> <p>Civil participative installations: solar and wind energy projects – <i>Nicole Römer, Freiburger Energie- und Solaragentur (FESA), Germany</i></p> <p>Solar Info Center Freiburg: a business development model for cities - <i>Prof. Rolf Buschmann, Manager, solar info center, Germany</i></p> <p>Renewable energy and Energy Resource Center experience at Bhubaneswar – <i>Anurag Mishra, Program Manager, ICLEI South Asia Secretariat, India</i></p>
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16:30 Coffee break

16:45 Forging a path to local sustainability

International developments of RE based on REN21's Global Status Report and the UNEP/New Energy Finance Global RE Investment Report

Virginia Sonntag-O'Brien, REN21 Secretariat and UNEP Sustainable Energy Finance Initiative (SEFI)

The Meadows Ozone project – a vision for improving existing building stock

Jerome Baddley, Sustainable Energy Development Officer, Nottingham Energy Partnership, United Kingdom

17:30 End of presentations / Cocktail and networking event (until 21:00)

Friday, 15 June 2007

09:00 Local Authorities moving ahead

Chair: Gino Van Begin, Regional Director for Europe, ICLEI - Local Governments for Sustainability

Support framework in place: replicable aspects of the German Renewable Energy Law to support widespread implementation

Michael Müller, Parliamentary State Secretary of the German Federal Ministry of the Environment, Nature Protection and Nuclear Safety (BMU), Germany

Sustainable development in large French cities - an association of mayors guide national politics

Jean-Louis Fousseret, Lord Mayor of Besançon and Member of the Association of Mayors of Large Cities in France

ICLEI's Local Renewables Initiative – guiding local governments in achieving sustainable energy targets

Monika Zimmermann, Director, ICLEI International Training Centre (ITC)

10:00 Facing the Future: Practical approaches and capacity-building opportunities

Chair: Carla Vollmer, Head of Renewable Energy Department, German Environmental Agency (UBA)

Strategic introduction to the topics of parallel D Sessions, providing an overview of the main elements relevant to these important topics.

D Sessions: 'Facing the Future' - Introductory presentations by moderators

D1: Sustainable energy: how to get started?

Klaus Hoppe, Head of Energy Department, City of Freiburg, Germany

D2: Training and capacity-building opportunities

Monika Zimmermann, Director, ICLEI ITC

D3: Tools for sustainable buildings – design and monitoring

Prof. Rosario Lanzafame, University of Catania, Italy and Meinhard Hansen, Architekturbüro Meinhard Hansen Freiburg, Germany

D4: Consider R&D results for future action

Christian Zahler, Senior Project Manager, PSE GmbH, Germany

10:30 Coffee break

11:00 Parallel Sessions D

D Sessions: "Action" - 'Facing the Future'

Session D1: Sustainable energy: how to get started?	Session D2: Training and capacity- building opportunities	Session D3: Tools for sustainable buildings – design and monitoring	Session D4: Consider R&D results for future action
<p>(for local government newcomers and learning cities)</p> <p><i>Moderator: Klaus Hoppe, City of Freiburg</i></p> <p>Practical sustainable energy experiences of Freiburg – <i>Klaus Hoppe</i></p> <p>The LETIT tool and municipal experiences - <i>Sebastian Gölz, Project Manager, Fraunhofer ISE and Adrian Hewitt, Climate Change Team Leader, London Borough of Merton, UK</i></p> <p>Municipal frameworks and structures for sustainable energy – <i>Ralf Bermich, Head of Energy Department, City of Heidelberg, Germany</i></p> <p>Videotaping and simultaneous translation</p>	<p>(for professionals, students and the youth)</p> <p><i>Moderator: Monika Zimmermann, ICLEI ITC</i></p> <p>Essential education for long-life sustainable energy solutions - <i>Prof. Rolf Buschmann, Managing Director, EnEd - International Education Center for Energy Solutions, Germany</i></p> <p>Craftsmen are needed - <i>Matteo Benetello, Technical Manager, Italian Solar Infocenter S.r.l., Italy</i></p> <p>Renewable Energy Management Programme - Solar University Freiburg- <i>Prof. Franz Daschner, Director, Solar-University Freiburg, Germany</i></p> <p>Eco-School International Programme as a tool for sustainable learning - <i>Eigil Larsen, Project Leader, The Danish Outdoor Council, Denmark</i></p>	<p>(for architects, engineers and municipal environmental staff)</p> <p><i>Co-moderation: Prof. Rosario Lanzafame University of Catania and Meinhard Hansen, Architect Freiburg</i></p> <p>Practical tools to design low energy buildings - <i>Alain Guiavarch, Research Engineer, Centre d'Energétique (ARMINES), France</i></p> <p>DECoRUM tool to track energy use and carbon emissions from residential buildings – <i>Dr. Rajat Gupta, Senior Lecturer and Co-Director, Oxford Institute for Sustainable Development: Architecture, Oxford Brookes University, UK</i></p>	<p>(for national, provincial and local political decision-makers)</p> <p><i>Moderator: Christian Zahler, PSE GmbH</i></p> <p>State-of-the-art of solar cell technologies - <i>Prof. Gerhard Willeke, Head of Research Area Photovoltaics, Fraunhofer ISE</i></p> <p>Energy efficient and solar building (incl. solar cooling) - <i>Dr. Sebastian Herkel, Head of Group Solar Building, Fraunhofer ISE</i></p> <p>Concentrating Collectors for Process Heat Applications - <i>Christian Zahler, Senior Project Manager, PSE GmbH</i></p>

12:00 Sustainable Energy – What are the next steps?

A challenge to all local authorities and their partners to move forward

Lord Mayor, Dr. Dieter Salomon

Interactive conclusions discussed with participants – addressing challenges and achieving success

Moderator: Gino Van Begin, Regional Director for Europe, ICLEI - Local Governments for Sustainability

Farewell by the Lord Mayor of Freiburg

13:00 Lunch

14:00 Study tours and final workshop (in parallel)

Please indicate interest on registration form. Your participation will be confirmed. Some tours in German.

<p>Tour 6: Solar buildings and low energy districts are cool!</p> <p><i>Organiser: Freiburg Futour (Vauban walking tour)</i></p> <p>See Tour 2 description on page 2</p>	<p>Tour 7: Business meets Renewables</p> <p><i>Organiser: solar info center</i></p> <p>See Tour 3 description on page 2</p>	<p>Tour 8: Solar energy research at the Fraunhofer Institute for Solar Energy Systems (ISE)</p> <p><i>Organiser: Fraunhofer ISE</i></p> <p>See Tour 4 description on page 2 max. 20 people</p>
<p>Tour 9: Geothermal energy in office buildings</p> <p><i>Organiser: Wärmekontor Freiburg</i></p> <p>Heating and cooling with geothermal energy and tour through uniVersa House</p>	<p>Tour 10: Sustainable energy in surrounding areas</p> <p><i>Organiser: Innovation tour</i></p> <p>View a range of renewable energy applications – from PV to biogas and wind.</p>	

Workshop 4 – Open discussion on joint sustainable energy projects with ICLEI

Organiser: ICLEI European Secretariat (Maryke van Staden, Project Officer Climate & Air)

Discussion of project ideas and concepts, as well as involvement of potential partners and their roles – within the context of the Local Renewables Initiative and the Cities for Climate Protection (CCP) Campaign.

16:30 End of programme