



Local Renewables

Model Communities Network

Year in Review 2007



A mosaic of posters outside the UNFCCC- COP-11 event at Montreal

Commissioned by



Federal Ministry
for Economic Cooperation
and Development

gtz

ICLEI
Local
Governments
for Sustainability

LOCAL RENEWABLES YEAR IN REVIEW: 2007



Local Renewables - an ICLEI Initiative

With the ^{Local} Renewables Initiative, ICLEI – Local Governments for Sustainability supports and strengthens the role of local governments that promote the generation and supply of renewable energy and energy efficiency in the urban environment. The focus is on the roles and responsibilities of local governments as a driving force for innovation and investment in their communities.

www.iclei.org/local-renewables

About this report

The activities in 2007 focused on several exciting developments in India and Brazil, such as progress in the Resource Centres; completing two city energy consumption assessments, the development of local policies and the participation of stakeholders. Furthermore there were a few international ^{Local} Renewables events - in Freiburg, Betim and India, and encouraging developments in Europe.

November 2007

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This report has been prepared by ICLEI South Asia Secretariat, ICLEI European Secretariat and ICLEI International Training Centre as a part of the ^{Local} Renewables Model Communities Network Project.

The publication is also available online at www.iclei.org/local-renewables

Images courtesy of: ICLEI: South Asia Secretariat, Latin American Secretariat, European Secretariat, International Training Centre.

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International events and exchanges

- UK-India Symposium
- ^{Local} Renewables 2007, Freiburg, Germany
- REDE ELO Brasil 2007, Betim, Brazil

Upcoming Events

KEY ELEMENTS OF THE LOCAL RENEWABLES INITIATIVE

Why focus on Local Governments?

Local governments play a key role in promoting sustainable energy at a community level. They have a political mandate to govern and guide their communities, provide services and manage municipal assets. They have legislative and purchasing power that they can use to implement change in their own operations and in the wider community. Local governments can further play a role as model in their region or country, showing how policies and local actions can be shaped to guide communities in the transition to a sustainable energy future.

What Model Communities do

Carefully selected local governments are supported by ICLEI to develop into Model Communities in the use of Local Renewables. They benefit from the expertise of other advanced communities in using renewable energy and energy efficiency. Below are their main steps:

- **Establish a resource centre**

Raising awareness and improving capacity to act are two key issues. Citizens, neighbouring communities and other actors can learn about Local Renewables in a resource centre, set up by the municipality in partnership with local businesses and training institutes. (see p.5)

- **Involve community stakeholders**

Local forums of citizens, business, industry, as well as the research and academic communities, are involved in planning and implementing actions. (see p.6)

- **Create local policy**

The City Council adopts policies supporting and promoting sustainable energy (e.g. bylaws for mandatory solar installation on new buildings, climate protection targets). (see p.9)

- **Show regional leadership**

Model communities can encourage neighbouring cities to switch to Local Renewables by sharing their experiences and expertise. (see p.10)

Eight arguments for community leaders to use Local Renewables

- 1) Renewable energy sources (RES) are mature, available and ready for use today.
- 2) Using local resources to produce energy locally establishes a solid foundation for decentralised, secure energy supply – thereby also making communities more resilient (e.g. less dependent on imported fossil fuels).
- 3) Financial benefits are inherent, both in terms of saving money and generating local income over the short to long-term. This can be done by using energy more efficiently, and by replacing increasingly expensive fossil fuels with sustainable energy solutions, selling (exporting) energy that is not locally required.
- 4) A steady transition from fossil fuels to RES will reduce CO₂ emissions and contribute to climate protection.
- 5) Switching to Local Renewables supports local job creation and stimulates the economy.
- 6) Local Renewables give an impulse to sustainable urban development, and encourages technical and social innovation.
- 7) Local action is critical in achieving national and international targets on sustainable energy and climate protection.
- 8) Local Renewables implies the involvement of local stakeholders, using synergies to create change.

Extract from the 'Freiburg Outreach', an outcome of the Local Renewables Freiburg 2007 Conference. (see p.11)

LOCAL RENEWABLES (LR) DESCRIBES A WIDE RANGE OF RENEWABLE ENERGY SOURCES GENERATED AND USED LOCALLY, COUPLED WITH ENERGY EFFICIENCY.

WWW.ICLEI.ORG/LOCAL-RENEWABLES

THE INTERNATIONAL LOCAL RENEWABLES NETWORK

Partners on four continents - Networking, Sharing Experiences & Expertise



Other communities as part of the international network

- In South Africa: Cape Town
- In Brazil: Belo Horizonte, Porto Alegre, Salvador, Sao Paulo, Volta Redonda
- In India: Balasore, Cuttack, Gwalior, Jabalpur, Madurai, Paradip, Puri, Tiruchirapalli and Vadodara

These communities are observers and aim to learn from Model Communities in their country, region or internationally. They do not yet receive technical and financial support from current projects, but they have expressed their commitment to join new projects.

Projects

The Cities of **Bhubaneswar** and **Nagpur** (India) and **Betim** (Brazil) have been actively supported through projects to develop into Model Communities. In support of this, and as part of the international network, the Cities of **Freiburg** and **Bonn** (Germany) and **Vaxjö** (Sweden) as Model Communities in their regions, each with a unique approach, have shared experiences on proven strategies, policies and actions on sustainable energy – as part of the Local Renewables approach.

• Local Renewables Model Communities Network Project

The first project started within the Local Renewables Initiative was the 'Local Renewables Model Communities Network' project, initiated in 2005 by ICLEI, with support from the German Federal Ministry for Economic Cooperation and Development (BMZ) and technical support from the Deutsche Gesellschaft für Technische Zusammenarbeit GmbH (GTZ). The timeframe for this project is from November 2005 to October 2008, with the main focus on developing Model Communities in India and expanding the network internationally.



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• Rede Elo (Brazil)

A second project, supported by the Global Opportunity Fund from the British Government was launched in Brazil in 2005. It enlarges the Local Renewables Network and its activities to Brazil.

Some related local actions

The **Gwalior** and **Jabalpur** Municipal Corporations are participating in a Municipal Energy Efficiency CDM project, bundled for 14 other cities in the state. The preparation of this project is handled by ICLEI South Asia, with the support of the Environmental Planning Coordination Organisation and City Managers Associations of Madhya Pradesh.

The **City of Cape Town** in partnership with the non-profit developmental organisation SouthSouthNorth, has developed the Khuyasa Low Income Urban Housing Energy Upgrade Project. This involves retrofitting 2300 low income houses in Khuyasa, Khayelitsha, with energy efficient lighting, insulated ceilings and solar water heaters. These interventions resulted in a reduction in greenhouse gas emissions through the avoidance of electricity or alternative fossil fuel use by households. The project provides numerous additional sustainable development benefits such as improved health, access to energy services, and employment creation. The project is being packaged as a Clean Development Mechanism (CDM) project activity, and is supported by the Renewable Energy and Energy Efficiency Partnership (REEEP), a partner of ICLEI.

ESTABLISHING RESOURCE CENTRES

Resource Centre on Renewable Energies launched in Betim, Brazil

As part of the ELO project in Brazil, the city of Betim opened the doors of its Resource Centre on Renewable Energies (**CRER - Centro de Referência em Energias Renováveis**) on 14 February 2007. CRER-Betim will provide information and serve as an educational centre for the community and other municipalities.

www.crer.betim.mg.gov.br



Mayor Carlaile Pedrosa unveils the CRER-Betim plaque.

The inauguration by Mayor Carlaile Pedrosa and partners was attended by more than 100 people from the community and partners from across the state. On this occasion the Mayor also signed an official document declaring that the municipality will give preference to multi-flex vehicles when making new purchases for its municipal fleet.



The Resource Centres are established to provide information to the communities, using info displays, models and posters. They are also used as meeting point for stakeholders.

Nagpur and Bhubaneswar Resource Centres

Renewable Energy and Energy Efficiency Resource Centres in Bhubaneswar and Nagpur have attracted a large number of citizens and dignitaries interested in renewables. The centres are well located within each City Hall to be easily accessible by citizens.

In April, the Resource Centres were visited by a team of GTZ experts and a delegation of five cities from Madhya Pradesh, including State Urban Minister. Bhubaneswar started a news bulletin on "Energy and Environment" which contains an editor's note, recent news on energy and articles on energy efficiency and renewable energy. It also started an e-group of all stakeholders in the city.

Resource Centres at Bhubaneswar and Nagpur



INVOLVING COMMUNITY STAKEHOLDERS

Stakeholder Consultation on Local Renewables

The model cities in development participating in the Local Renewables Model Communities Network Project, Bhubaneswar and Nagpur have committed to formulate a city level Renewable Energy and Energy Efficiency policy.

To initiate this process, roundtables were organised at Bhubaneswar and Nagpur, on 16 March 2007 and 25 April 2007 respectively. The local stakeholder groups identified during the first year of the project were invited to participate in the discussion and provide suggestions on policy formulation. Participants included representatives from the Indian Ministry of New and Renewable Energy Regional Office, the National Renewable Energy Development Agency, the District Renewable Energy Association, Municipal Corporation engineers, scientists, architects, consultants, manufacturers, energy auditors, NGOs, as journalists. In Nagpur the event was joined by Jan Peter Schemmel, an expert from the GTZ, and Mr. S.K.Kulshrestha, a senior urban planner.



Nagpur and Bhubaneswar Cities present the suggestions from the Local Consultation on Local Renewables Policy. Valuable suggestions from national experts were included

India Roundtable on Local Renewables Energy Policy



The National round table discussion on Local Renewables Energy Policy

ICLEI South Asia and the GTZ jointly organised a National roundtable discussion on Local Renewable Energy policy on 24 May 2007 in New Delhi. Among others participants represented the Indian Ministry of New and Renewable Energy, IREDA, USAID, CSE, Sahara, Parsvnath Developers, WEC-IMC, the Indian Wind Energy Association, Nagpur Municipal Corporation, and Bhubaneswar Municipal Corporation.

Public Participation

Public Participation has been a major part of Local Renewables project in Indian cities. Both cities have identified stakeholders and involved them at each stage of the project. Stakeholders have played a major role in the following project activities:

- Establishment of Resource Centres
- Awareness and training activities
- National and international workshops
- Development of local policy



Study visit to inform stakeholders about a Solar Thermal Water Heating System in Bhubaneswar

ENERGY ASSESSMENTS

Establishing a baseline

Energy assessments were carried out in the two Indian model communities in development. The results were used to determine the current energy situation, which in turn served as a basis to identify potential areas of improvement, used to develop city energy policy and actions.

Energy Status of the City of Nagpur Maharashtra, India

CITY PROFILE

Population	2.12 million (2001 Census)
Slum population	0.808 Million (2005)
Area	217.65 m ²

The City of Nagpur, famously known as the Orange City, has always been an important administrative centre. It is the largest city in central India, and the third largest in the western state of Maharashtra after Mumbai and Pune.

Energy / Fuel	Sector	Quantity
Electricity	Domestic L&F	439.41 Million kWh
	Commercial	120.89 Million kWh
	Industrial LT	91.98 Million kWh
	Industrial HT	376.81 Million kWh
	Agriculture	0.47 Million kWh
Petrol		69,601 kiloliter
Diesel		57,828 kiloliter
LPG	Domestic	92,080 MT
	Commercial	8,727 MT
Kerosene		38,304 kiloliter

ENERGY CONSUMPTION SCENARIO 2005 - 2006

eCO ₂ emission (Tonnes)	2003-2004	2004-2005	2005-2006
Community level	1,621,847	1,914,484	1,678,294
Corporate level	94,619	91,249	83,970
City level	1,716,466	2,005,733	1,762,264



A 300 YEAR OLD CITY

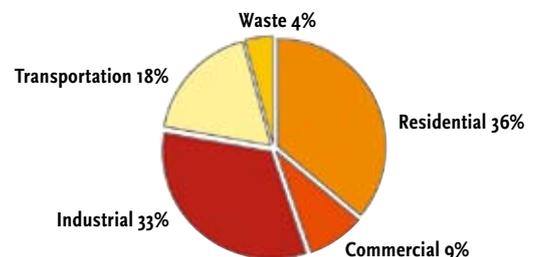
DURING THE LAST FIVE YEARS, NAGPUR HAS EMERGED AS ONE OF THE TOP 10 CITIES IN INDIA. IT IS BECOMING THE GROWTH NUCLEUS OF CENTRAL INDIA, AN ECO CITY THAT PROVIDES ADEQUATE, EQUITABLE, SUSTAINABLE ACCESS TO URBAN SERVICES FOR ALL CITIZENS AND A CITY THAT IS SAFE, LIVEABLE AND PROMOTES GROWTH OF ITS CITIZENS.

SOURCE: NAGPUR CITY DEVELOPMENT PLAN, 2006

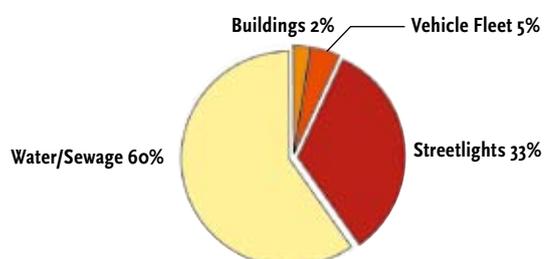
CITY-LEVEL CARBON EMISSIONS

Activities in Nagpur contribute to 1,762,264 T eCO₂. During 2006 total carbon emissions of the city have increased up by 3%. The per capita emissions for Nagpur City have been 0.88 T/year in 2006. The corporate level emissions are about 4.8 % of the total city emissions.

COMMUNITY CARBON EMISSIONS 2005-2006



MUNICIPAL CORPORATION CARBON EMISSIONS 2005-2006



ENERGY ASSESSMENTS

Energy Status of the City of Bhubaneswar

Orissa, India

CITY PROFILE

Population	647,302 (2001 Census)
Area	135.5 km ²

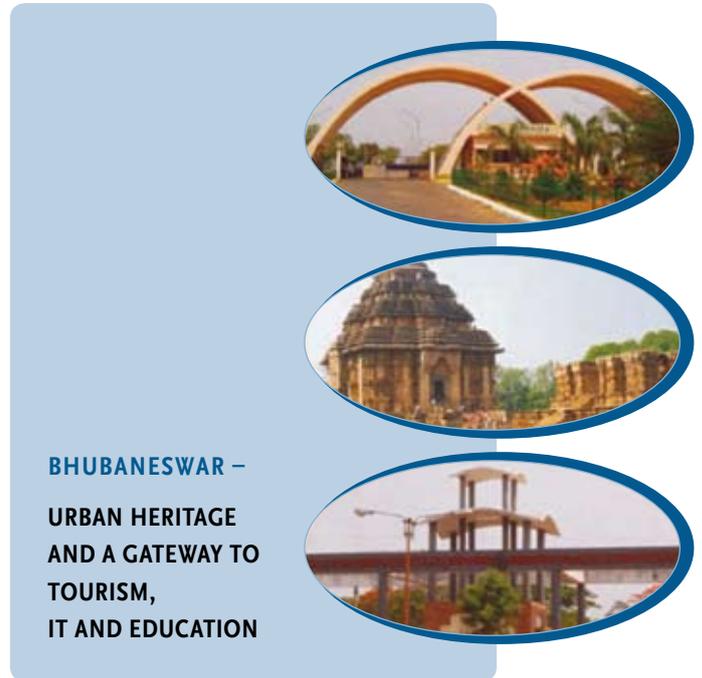
Bhubaneswar, the modern capital of Orissa and popularly known as the 'Temple City of India', represents some of the finest examples of Kalingan style temple architecture. The present day city is a major centre for information technology (IT), education and research, housing many organisations active in these fields. It is also an fascinating international and national tourist destination.

ENERGY CONSUMPTION 2005 - 2006

Energy / Fuel	Sector	Quantity
Electricity	Domestic LT	202.04 Million kWh
	Commercial	192.22 Million kWh
	Industrial LT	10.52 Million kWh
	Industrial HT	18.89 Million kWh
Petrol		32243 kiloliter
Diesel		37074 kiloliter
LPG	Domestic	92,080 MT
	Commercial	8,727 MT
Kerosene		38,304 kiloliter

eCO₂ EMISSION

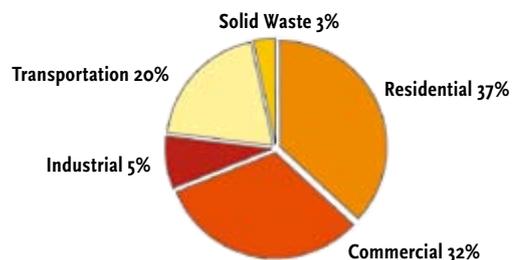
eCO ₂ emission (Tonnes)	2003-2004	2004-2005	2005-2006
Community level	848,213	849,043	904,255
Corporate level	48006	51,759	58,920
City level	896,219	900,802	963,175



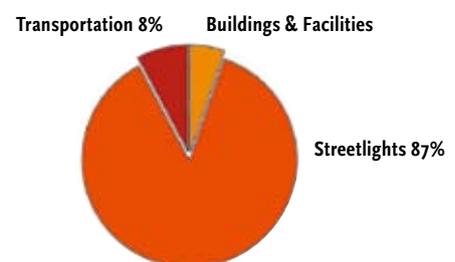
CITY-LEVEL CARBON EMISSIONS

Activities in Bhubaneswar City contributed to 900,772 T eCO₂ in 2005 – 2006. The total carbon emissions of the city has gone up by 12.75% during last three years. For 2005 - 2006, the per capita emissions for Bhubaneswar have been 1.14 T/year, and the corporation level emissions about 1.23 % of the total city emissions.

COMMUNITY CARBON EMISSIONS 2005-2006



MUNICIPAL CORPORATION CARBON EMISSIONS 2005-2006



CREATING LOCAL POLICY

New energy policy in Bhubaneswar and Nagpur

In September 2007, the cities of Bhubaneswar and Nagpur (India) have adopted city level policies on Renewable Energy and Energy Efficiency.

This is the first time in India that cities have taken initiative to adopt a comprehensive policy for reducing their conventional energy consumption. These cities have set a model for other cities in the region and beyond by committing to continuously improve their energy conservation effort and promote renewable energy and energy efficiency.

The policy includes interventions in the sectors that are under their jurisdiction such as street lighting, water pumping, buildings, waste management, lighting in public areas, public transport, citizen's awareness, etc.

The policy documents for both cities are each supported with a five year action plan to be implemented in order to achieve the targets of the policy.



The Statesman, 30 August 2007

Some of the measures included in the local policy are:

- Incorporating energy efficiency in all present and future planning
- Integrating energy efficiency measures in all applications such as its street lighting, parks/campus lighting, traffic signals, buildings, etc.
- Developing energy conservation and management guidelines for all corporation activities
- Promoting renewable energy sources such as solar water heating systems in all commercial/domestic activities
- Encouraging non motorized transportation system in the city
- Partnering with relevant government agencies, institutions and businesses in bringing new technologies
- Organizing awareness programs for citizens, and staff on energy conservation



Lokmat, 28 September 2007

DEMONSTRATING REGIONAL AND GLOBAL LEADERSHIP

In 2007, the Model Communities participating in the Local Renewables Network demonstrated their excellence and connected with other local governments to learn and share experience.

INDIAN MINISTER OF NEW AND RENEWABLE ENERGY VISITS THE SOLAR CITY OF FREIBURG, JUNE 2007



A high level delegation from the Indian Ministry of New and Renewable Energy (MNRE), led by the Honourable Minister for State (I/C) Mr. Vilas Muttemwar, visited Freiburg, Germany in June 2007. The delegation included Mr. Ajit Gupta, Adviser to the MNRE and Dr. Badyopadhyay, Director of India Solar Energy Centre. The Minister toured the SolarRegion Freiburg to see firsthand the a diversity of renewable energy and energy efficiency projects. With the support of ICLEI the Minister met the Lord Mayor of Freiburg, Dr. Dieter Salomon, and the head of the Fraunhofer Institute for Solar Energy, Dr. Eicke Weber, to discuss cooperation opportunities. The Minister has extended his support for ICLEI's Local Renewables Initiative, finding this a valuable approach to guide communities in the transition to a sustainable energy future.

BRAZILIAN DELEGATION MAKE A STUDY VISIT TO THE UK

In April 2007, a delegation of twelve municipal leaders from Brazil visited projects with a focus on RE and EE in four UK cities. The delegates, including the Mayor of Betim, discussed projects strategies and learned from the experience of other cities. In Woking and Nottingham they were hosted by the Mayors and participated in presentations by senior staff in London. They also visited the Centre for Alternative Technologies in Wales. Rede Elo was promoted throughout the Mission and specifically during the cities' presentation and an Award Ceremony at the Embassy of Brazil in London.

THE CITY OF VÄXJÖ WINS SUSTAINABLE ENERGY EUROPE AWARD 2007

Växjö in Sweden was awarded the Sustainable Energy Europe Award 2007 in the category Sustainable Communities for its work on Fossil Fuel Free Växjö. This award is part of the Sustainable Energy for Europe Campaign (www.sustenergy.org), initiated by the European Commission, to provide recognition to contributions supporting the European Union's energy policy targets within the fields of renewable energy sources, energy efficiency, clean transport and alternative fuels.

Fossil Fuel Free Växjö (www.vaxjo.se) is an overall programme initiated by the city of Växjö to reduce human impact on the global climate change. In 1996, Växjö politicians decided unanimously to strive towards a fossil fuel free municipality. Between 1993 and 2005 the emissions of CO₂ from fossil fuels were reduced by 24% per inhabitant and the share of renewable energy is now over 50%.

MESSAGE FROM THE LADY MAYOR OF BONN

Following the release of the IPCC report 'Climate Change 2007: Impacts, Adaptation and Vulnerability' Lady Mayor Bärbel Dieckmann, also chairperson of the World Mayors Council on Climate Change (WMCC) called for communities to improve their resilience and improve action plans for mitigation and adaptation. Mayor Dieckmann clearly stated that: „We suggest that the governments establish common work staffs, in which municipalities and experts can examine the concrete effects of the climate change for the individual centres of dense development, and set up plans of action around cities against climatic sequences to make more resistant“.

NEW CO₂ REDUCTION GOALS AND ACTION PLAN FOR FREIBURG

Freiburg, a Model Community in the Local Renewables Network, has inspired many policy makers around the world, in particular through its role as a European pioneer in the use of solar energy. In June 2007, the City Council decided to set a new climate protection goal based on the appraisal of its climate protection strategy with new scenarios and measures. The new CO₂ reduction goal is at least 40 % by 2030 (baseline is the year 1992).

INTERNATIONAL EVENTS AND EXCHANGES

UK-India Symposium

GREENING EVENTS AND ENERGY EFFICIENT CITIES FOR LASTING LEGACY
8-9 FEBRUARY 2007, NEW DELHI

The symposium addressed issues concerning the greening of major sporting events such as the Olympics and the Delhi 2010 Commonwealth Games. It has shown how environmental and sustainable strategies could be incorporated in both new and existing buildings and infrastructure, to work towards a credible sustainable future and significantly improve the quality of life for all involved. Leading experts from the UK and India shared experiences with professionals such as city managers, architects, engineers, and planners, as well as students in these fields. Sharing ICLEI's expertise, Monika Zimmermann, Director of ICLEI's International Training Centre, presented ten principles for greening events.



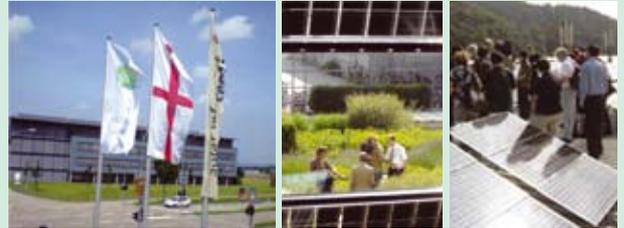
„To meet the demands of an increasing urban population, and the forthcoming 2010 Commonwealth games we need sustainable strategies and actions. Every citizen must have a green finger and contribute to city's environment“

MRS. SHEILA DIXIT, CHIEF MINISTER, DELHI

Second International Conference on Renewable Energy, Energy Efficiency and Local Energy

27 – 29 JUNE 2007, BETIM, BRAZIL

In June 2007, more than 300 participants convened in Betim to pledge their commitment to Local Renewables. The conference covered RE and EE policies and actions, sustainable transportation as an integrated policy, and energy and sustainability in civil construction. The City of Betim in particular has taken a leadership role in Rede Elo and in the Local Renewables Model Community Project, inspiring other Brazilian cities such as São Paulo, Porto Alegre, and Belo Horizonte to join Local Renewables to improve their approach to energy.



„Only by motivating as many citizens as possible can we rapidly increase energy conservation, energy efficiency and the use of renewable energies, thereby limiting climate change and the rise in temperature to 2°C.“

MICHAEL MÜLLER
PARLIAMENTARY STATE SECRETARY OF THE ENVIRONMENT
GERMAN FEDERAL MINISTRY FOR ENVIRONMENT,
NATURE CONSERVATION AND NUCLEAR SAFETY (BMU)

Local Renewables Freiburg 2007 Conference

COMMUNITIES LEADING THE WAY
13-15 JUNE 2007, FREIBURG, GERMANY

200 participants from 34 countries discussed ideas and solutions in Freiburg on the future of urban development and local energy supply. Experts agreed that measures to curb the dramatic impact of climate change, including the promotion of sustainable energy, must be carried out immediately, and that the local governments play a crucial role in this. Examples from over 60 initiatives in Europe and abroad were presented, clearly showing that RE and EE form an indispensable part of a secure and sustainable energy supply. Several excursions gave participants the opportunity to study sustainable energy projects in Freiburg. The conference organisers, City of Freiburg and ICLEI, sent a clear message to national governments and the European Union, urging the improvement of necessary framework conditions to support widespread implementation. The City of Freiburg is already planning a follow-up conference Local Renewables Freiburg 2008.

www.local-renewables2007.org



UPCOMING EVENTS

Local Governments Climate Sessions at the United Nations Climate Change Conference

(UNFCCC COP 13, COP/MOP 3)

10-11 DECEMBER 2007, BALI, INDONESIA

www.iclei.org/bali2007

3rd International Solar Cities World Congress

17 – 21 FEBRUARY 2008, ADELAIDE, AUSTRALIA

www.solarcitiescongress.com.au

Local Renewables Freiburg 2008

DATE TO BE ANNOUNCED, FREIBURG, GERMANY

Rovigo 2008: European Climate Conference

2 – 4 APRIL 2008, ROVIGO, ITALY

www.iclei.org/rovigo2008

ICLEI World Congress 2009

14-18 JUNE 2009, EDMONTON, CANADA

www.iclei.org/worldcongress

EXPANSION OF THE INITIATIVE – INVITATION TO JOIN!

ICLEI's Local Renewables Initiative is ready for expansion.

Communities from all over the world are invited to join.

We invite model communities that are interested in sharing experiences and expertise on sustainable energy policy and implementation, as well as cities and towns interested in developing into model communities in their regions. Community clusters in the same country or region are in particular encouraged to join simultaneously as a group and cooperate within the initiative. Observers are invited to learn more, and start their own implementation processes.

For more information about the initiative please visit: www.iclei.org/local-renewables

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