URBAN LEDS:
Promoting Low Emission Urban Development Strategies in Emerging Economy Countries

„Joint implementation of the EU policy for energy security and sustainable development of urban areas“ - 14 May 2015, Zagreb

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In the next 15 minutes...

- About URBAN LEDS
- Learning from each other
- Success stories
- Tips and tools
- Keep up to date

This project is funded by the European Union. The views expressed on this document can in no way be taken to reflect the official opinion of the European Union.
Focus on local sustainable development

• **ICLEI Europe**: Regional office based in **Freiburg**, dealing with 40+ countries in wider Europe (also supported by **ICLEI Brussels** office).

• We engage in:
  • conducting **advocacy** (global / European / national level),
  • running **campaigns** (e.g. GreenClimateCities programme),
  • coordinator and partner in **projects**,  
  • offering **services** – including capacity building

• Covenant of Mayors Supporter – ICLEI Europe is a **unique European network**, linked to a global network, addressing standards, develops protocols and tools, offers advice to municipalities and their partners.
Working with communities on urban sustainability

We consider a Sustainable Community to:

• strive to reduce its per capita use of natural resources to a level that endangers neither local nor global ecosystems, and at the same time,
• ensure that political, economic and social systems guarantee a high quality of life for everyone.
PATHWAYS TO TRANSFER OF LOW-CARBON SOLUTIONS: THE URBAN-LEDS PROJECT

Urban Low Emission Development Strategies (Urban-LEDS)
Urban-LEDS project at a glance

• **Title:** Promoting Low Emission Urban Development Strategies in Emerging Economy Countries (Urban-LEDS)

• International *mitigation project* funded by EC

• **Duration:** March 2012 – August 2015

• **Main objective:** Enhance the transition to low-emission urban development in cities in emerging economy countries: Brazil, India, Indonesia, South Africa

• Supported by experienced **European cities**

• **Implementation partners:**
Why low emission development?

Challenges
- Population growth
- Unplanned urban growth
- Air pollution
- Urban poverty
- Rising energy costs
- Backlogs in service delivery
- New infrastructure requirements
- Rising global greenhouse gas emissions
- Severe local climatic impacts
Why low emission development?

Opportunities
- Job creation
- Attract new investment / technical capacity
- Reduce costs (especially energy costs)
- Improve efficiency
- Create cleaner, healthier places
- Meet service delivery aims
- City profiling at national / international level
- Prepare for national legislation & funding
- Leapfrog old, dirty technologies
- Build new local partnerships and dialogues
Climate investment at local level

• Most investments to reduce GHG emissions and adapt to climate change take place at the sub-national and local levels
  • 50 to 80% for mitigation
  • up to 100% for adaptation.

• Sub-national and local governments undertook 72% of total public investment in 2012 across the OECD area in terms of volume.

Source: UNDP

Sources: OECD, 2014
Urban-LEDS project activities

• Guidance and technical support to local governments
• Capacity development of political leaders and municipal staff
• Process support – from methodology to reporting platform
• North-South, South-South exchange
• Global climate advocacy
City selection

more than 50 cities applied

EUROPE
- Almada, Portugal
- Bologna, Italy
- Copenhagen, Denmark
- Gaziantep, Turkey
- Hannover, Germany
- Helsinki, Finland
- Warsaw, Poland
- Zagreb, Croatia

INDIA
- MODEL CITIES
  - Rajkot
  - Thane
- SATELLITE CITIES
  - Coimbatore
  - Gwalior
  - Nagpur
  - Panaji
  - Pimpri-Chinchwad
  - Shimla

BRAZIL
- MODEL CITIES
  - Fortaleza
  - Recife
- SATELLITE CITIES
  - Betim
  - Belo Horizonte
  - Curitiba
  - Porto Alegre
  - Rio de Janeiro
  - Sorocaba

SOUTH AFRICA
- MODEL CITIES
  - Steve Tshwete Municipality
  - Kwa Dukuza Municipality
- SATELLITE CITIES
  - Mogale City Local Municipality
  - Nelson Mandela Bay Municipality
  - Saldanha Bay Municipality
  - Sol Plaatje Municipality
  - uMhlathuze Local Municipality

INDONESIA
- MODEL CITIES
  - Bali
  - Bogor
- SATELLITE CITIES
  - Bontang
  - Kabupaten Bogor
  - Tangerang Selatan
  - Tarakan
Green Climate Cities methodology

Working methodology to help Local Governments create an adequate institutional framework for long-term Urban Low Emission Development Strategy, planning and projects.
I. Analyze

Identify priorities

Develop action plan

Prepare & approve

Implement policies & actions

Monitor

Evaluate & report

Enhance

II. Act

III. Accelerate

Commit & mobilize

Assess frameworks

Identify priorities

I. Analyze

II. Act

III. Accelerate
Commit and mobilize

- National Advisory Groups created and convened
  - Formal project partners delegations
  - National government
  - Local governments and their associations
  - Promoting vertical integration of climate policies and plans to improve effective delivery and results on the ground

ANAMMA
APEKSI
CB27
CDIA
DBSA
GIZ
IADB
IGEP
KfW
NBI
SACN
SAALGA
SEA
WBCSD
WRI
WWF
...
Assess frameworks (I)

- Key indicators
- Governance structure
- Climate action framework

Essential to understand the structural context and constraints

For example: power generation, generally outside the mandate of Local Governments...
Assess frameworks (II)

– About the city
– About the Local Government
– Sustainability journey to date
– At a glance: development indicators
  • Energy profile
  • GHG emissions
  • Mitigation actions
  • GCC implementation
  • Urban-LEDs
    – Challenges
    – Priorities
    – ...

Essential to understand the local context and constraints
Assess frameworks (III)

- Community

- Local government operations
Identify priorities

- Recife
- Fortaleza
- Kwadukuza
- Steve Tshwete
- Rajkot
- Thane
- Balikpapan
- Bogor
I. Analyze

1. Identify priorities
2. Assess frameworks
3. Commit & mobilize

II. Act

4. Develop action plan
5. Prepare & approve
6. Implement policies & actions
7. Monitor
8. Evaluate & report
9. Enhance

III. Accelerate

- Enhance
Preparing the LEDS plan

• Identify potential measures
• Feasibility assessment
• Multicriteria assessment
• Screen measures
• Select Key Performance Indicators (KPIs)
Global peer-learning network

- 1st International networking event, Nelson Mandela Bay (NMB), Nov 2013
Global peer-learning network

• European Study Tour, April 2014
Replicating low-carbon solutions

Green roofs
- Recife

Green buildings policy
- Copenhagen
- Bogor
- Rajkot
- Kwadukuza
Replicating low-carbon solutions

Bicycle lane
- Recife

Electric bus
- Warsaw

LED Street Lighting
- Rajkot
- Thane
- Panaji
- Almada
Preparing the LEDS action plan: impact projection

Example: Fortaleza

Transport

Energy - public sector

Waste

Comparison of impact of mitigation actions

- Ciclovias
- Bicicletas compartilhadas
- BRT
- Frota municipal elétrica
- Metrofor
- ônibus biodiesel
- Troca gasolina por biodiesel
- LEDs
- Retrofit
- gases ASMOC
- gases Jangurussu
- Usina biogás
- Fator Verde

Example: Fortaleza
I. Analyze

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A few early results

• Bogor
  – Creation of Municipal workgroup by decree
  – 2014 budget includes Urban-LEDs activities

• Recife
  – Decree requires periodic GHG emissions inventory, Feb 2014
  – Green roofs law, Dec 2014
    • Inspired by Copenhagen’s example
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Urban-LEDS project

- GCC implementation

```
<table>
<thead>
<tr>
<th>City profile</th>
<th>GHG emissions reporting</th>
<th>Activities reporting</th>
<th>GreenClimateCities status</th>
<th>Urban LEDS</th>
</tr>
</thead>
</table>
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GCC tracking for Bogor

```
Step I
1.1 1.2 1.3 2.1 2.2 2.3 3.1 3.2 3.3

Step II
4.1 4.2 4.3 5.1 5.2 5.3 6.1 6.2 6.3

Step III
7.1 7.2 7.3 8.1 8.2 8.3 9.1 9.2 9.3
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- Urban-LEDS guide will include GCC MRV system
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II. Act

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III. Accelerate

- Implement policies & actions
- Prepare & approve
- Develop action plan
- Identify priorities
- Assess frameworks
- Commit & mobilize
- Analyze
- Act
Reporting local climate action

- 28 commitments
- 379 actions
- 33 community-scale GHG inventories
- 31 government GHG inventories
- Earth Hour City Challenge 2014/2015 recognized 2 Urban-LEDs cities as country finalists
Key resource: Solutions Gateway

Addressing non-technological barriers to large-scale deployment of climate technology

http://www.solutions-gateway.org
• Key features:
  – Guidance on Low-Emissions Development
  – Based on proven technologies and practices
  – Developed by experts, and peer-reviewed
  – Integrated approach to maximize results
  – Tailor-made for Local Governments
  – Practice oriented resources
Solution:
Process, or group of coherent actions, aligned with Local Government’s roles, that deliver climate change mitigation and enhance sustainable development.
Solutions Package (or Package):
Group of Solutions under a given theme, which complement each other by generating synergies and increasing impacts.
Case study:
Example of the implementation of a Solution or Package in a given city.
Themes

- Energy utilities
- Transport
- Waste
- Water
- Buildings
- Cross-sectorial
- Local Gov Operations

The Solutions Gateway currently displays:
- 16 Solutions
- 6 Solution Packages
- 59 Case Studies
Pool of experts created and used

- Access to world-class experts
  - Technical
  - Municipal
  - Financial
- Technical support services
- Strategic and financial guidance
- Capacity building
- Thematic subgroups aligned
- Cross-sectorial sub-divided:
  - Procurement
  - GHG emissions
  - Etc.

Afri-Coast Engineers
CEWEP
CORE Sustainability Services
Gbfor
i-San
IFEU
IRENA
ISOCARP
Manchester University
MCA Urban and Enviro Planners
Net Energy
Steadfast Greening
Sustainable Energy Africa
World Bank
WRI
...
Practice oriented resources

Pool of experts: Network of experts who can provide guidance on strategic, technical, organizational and financial issues to support Low Emissions Development. Namely to build capacity to develop bankable project concepts

- Set-up as LinkedIn group
- Experts join as individuals
Finance tool: Helps Local Governments identify possible financing options to implement selected projects and realize their Low Emission Development Strategies. Includes a decision-making map and is supported by a database with case studies.

- Will be online by August 2015
Thank you for your attention!

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