

Enhancing safe, resilient and sustainable energy systems through globally coordinated local climate action

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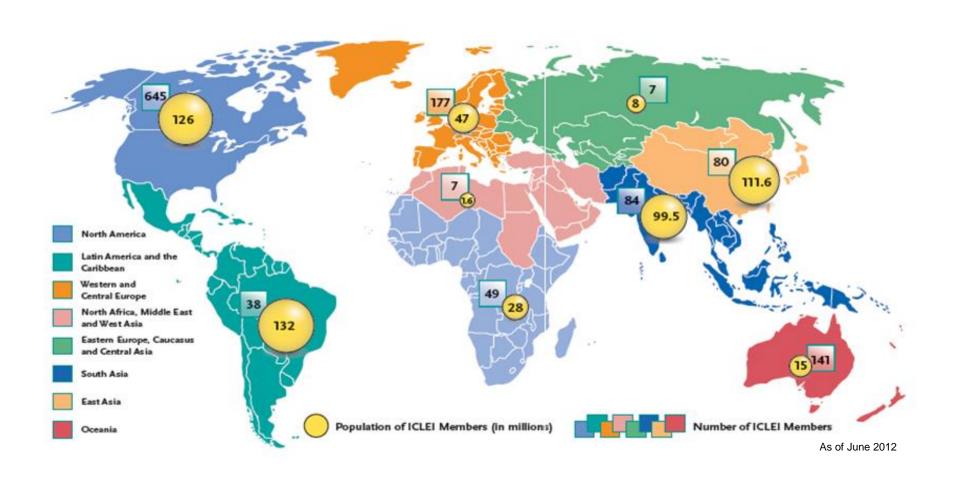
Presented at IEA 5th Forum on Climate-Energy Security Nexus 4 November 2014, Paris, France



A global network of cities for sustainability



1000+ members in mega-cities, super-cities, urban regions, large cities, mediumand small cities & towns in 88 countries, representing more than 660 million (i.e. ~ 20% of world's urban population)

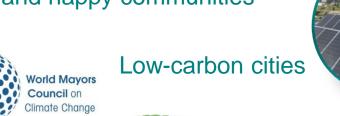


Connecting leaders – accelerating actions – gateway to solutions since 1990





Healthy and happy communities







Green urban economy



Resilient cities









Resource-efficient cities

Sustainable cities



Future CityLeaders

Biodiverse cities



Smart infrastructure

Energy

Accessibility, affordability, resilience, reliability, safety, sustainability Governments Accessibility



Is the current intergovernmental framework on energy and resilience robust enough

to ensure adequeate response of *power sector* on <u>all the above</u>?

- SE4ALL
- UNFCCC (Cancun Adaptation Framework Warsaw Loss and Damage Programme
 - Nairobi Work Programme)
- Hyogo Framework of Action on Disaster Risk Reduction
 - Phase-I (2005 2015): 4.ii.f
 - Phase-II (post2015 –Co-Chairs text): 28.b
- Sustainable Development Goals (SDGs)
 - 1.5: build resilience of the poor and those in vulnerable situations
 - 7: Ensure access to affordable, reliable, sustainable and modern energy for all
 - 9: build resilient infrastructure, promote inclusive and sustainable industrializiation and foster innovation
 - 11: making cities and human settlements inclusive, safe, resilient and sustainable

Energy







Hundreds Of Thousands Without
Power In New York City
Neighborhoods

Hurricane Sandy hit New York City hard on
Monday night, leaving hundreds of thousands
without power. Many residents will be without
power for days despite the city working around
the clock to restore it. Lower Manhattan, from
Madison Square to the tip of the Island, was hit
the hardest, with more than 239,000 without

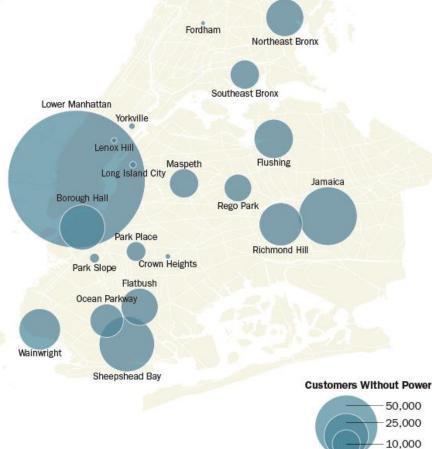
Lower Manhatt

Willowbrook

Fresh Kills

Woodrow

power as of noon on Wednesday.



Riverdale

Source: Consolidated Edison/Note: Data as of Wednesday, Oct. 31 at 12 p.m. EST. Areas with fewer than 250 outages not shown.

Fox Hills

THE HUFFINGTON POST

"One Less Nuclear Power Plant" Action Plan by Seoul Metropolitan Government (2011-2014)

Local Governments for Sustainability





- Goals:
 - 8% energy self sufficiency rate by 2014 (1.8% by 2011)
 - Savings: 2 million TOE energy / 7.3 million tCO2e GHG / US\$1.8 billion
 - 40,000 new jobs



"One Less Nuclear Power Plant" Action Plan by Seoul Metropolitan Government from Phase:I to Phase:II (2014-2020)



(unit: 10,000 TOE, as of June, 2014)

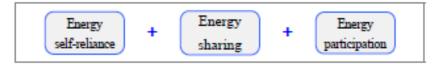
Sector	Goal	Total	2014 performance	Total by end of 2013
Total	200	204	70	134
Energy production	23	26	16	10
Efficient use	82	83	30	53
Energy saving	95	95	24	71

- Phase:I goal of 2 MTOE energy savings is surpassed by 6 months in advance
- Key achievements by June 2014
 - 52 MW of PV, (in 2011; 28 MW)
 - 61 MW of fuel cells
 - -1.4% electricity, -3.5%gas, -1.7% oil consumption in 2012-2013 (despite increase at the national level)
 - 2,267 Building-Retrofit-Programme (475 in 2011)
 - 6.79 million LED replacement
 - Engagement with business, national government, citizens and global community

Achievement of 20% Self-Sufficiency Ratio in Electricity by 2020

4 million TOE in renewables production plus energy conservation 10 million-ton reduction in GHGemissions

"Seoul, an Energy Self-Reliant City" where citizens produce energy and consume it efficiently



BAU Electricity consumption (GWh) (A)	50,330
Planned savings (GWh) (B)	9,553
Planned reduced Electricity consumption (GWh) (EE=B-A)	40,777
Electricity production by new and renewable energy (GWh) (NRE)	8,155
Self Sufficiency Ratio (NRE/EE)	20% (4.2% in 2011)

Key milestones of global efforts by local governments with relevance to climate change and safe, resilent, sustainable energy systems

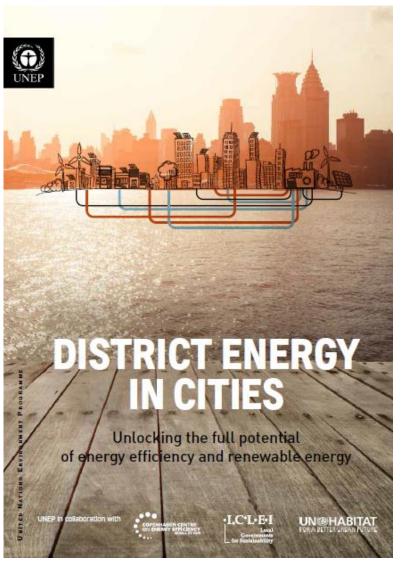


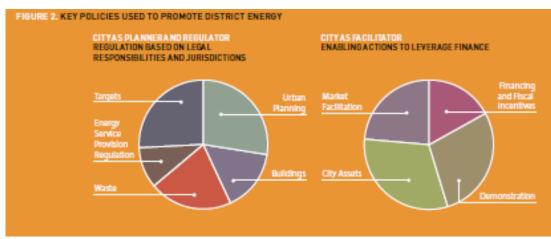
- 2014: Energy Safe Cities Symposium by ICLEI East Asia Secretariat
- 2014: Climate Summit 2014; Compact of Mayors, SE4ALL Global Energy Accelerator Initiative, Invest-Divest Global Movement
- 2013: UNFCCC COP19 Decision to engage cities and subnational authorities in pre2020 ambition
- 2013: Nantes Declaration, Launch of Resilient Communities for America
- 2013: **Resilient Urban Infrastructure** Sessions at Resilient Cities Congress
- 2012: ICLEI IRENA Case Studies
- 2012: Seoul Declaration on Energy and Climate Mitigation
- 2010: Mexico City Pact and carbon n Climate Registry
- 2011: Durban Adaptation Charter
- 2009: First Local Governments Section in the REN21 Global Update
- 2007: Local Government Climate Roadmap and Local Renewables Conference Series
- 2005: US Mayors Climate Protection Agreement
- 1993: ICLEI's Cities for Climate Protection Campaign



Climate Summit 2014 SE4ALL – Global Energy Accelerator Platform District Energy Accelerator

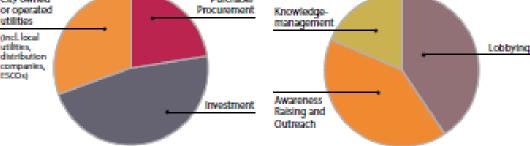








CITY AS CONSUMER AND SERVICE PROVIDER



CITY AS AN ADVOCATE

City Cases: Copenhagen, Dubai, Frankfurt, Helsinki, Milan, Vancouver, Paris, Ansan, Cyberjaya......

The Compact of Mayors











"If we are to bring down global temperatures, we must step up, scale up, speed up local climate action globally. Together, let's innovate, integrate, collaborate!

The designated central repository of the Compact, the carbon *n* Climate Registry, will enable the compilation of data through existing national, regional, global city reporting platforms. carbon *n* Climate Registry represents the ultimate level of our collective efforts."

Park Won-soon, Mayor of Seoul, Republic of Korea

Link to the webcast of Cities Action Area at Climate Summit 2014



carbonn Climate Registry World's leading reporting platform of local and subnational governments serving 12% of world's urban population







In Numbers (as of September 2014):



Reporting platform of:











In Partnership with:











UN Secretary-General's Special Envoy for Cities and Climate Change













CONNECTING THE DOTS*



A Scenario for Global Climate Advocacy Framework of Local and Subnational Governments between September 2014 – December 2015



Engaging in the Paris 2015 Outcome (ADP Process)

GOAL:

Scaling-up and mainstreaming climate action by full Recognition, Engagement and Empowerment

in the Post 2015 Global Climate Regime as governmental stakeholders



Follow-up on the Climate Summit 2014, including the Compact of Mayors



Local Government Climate Roadmap

Advancing with the implementation of the 2013 Nantes Declaration of Mayors and Subnational Leaders on Climate Change

*This analysis, developed by ICLEI, in support of Local Government Climate Roadmap, is not an official position. It aims to to support local leaders worldwide through a simple interpretation of existing global political processes related to climate change.



Local Government Vision towards Paris 2015

Based on key positions announced at the Nantes Declaration of Mayors and Subnational Leaders on Climate Change in September 2013



- **ADP Workstream-1 Outcome:** An ambitious and *"inclusive"* Paris Treaty, with full recognition local and subnational governments as *governmentals stakeholders*
- ADP Workstream-2 Outcome: A COP Decision for 10-Year Action Plan for City and Subnational Action, including:
 - immediate support for "low-hanging fruits" (pre-2020 action)
 - 5-year preparatory phase to design and support transformative processes scale up vertically integrated, low-carbon, climate-resilient urban development for action over 30-40 years in post-2020 period
- Step-by-Step Approach
 - A specific focus on Cities and Subnational Authorities within the COP20 Decision in Lima (Official Outcome of ADP Technical Expert Meeting on Urban Environment)
 - Full Implementation of COP20 Decision at COP21 in Paris; i.e. announcements of commitments and actions for enhanced mobiliziation of technical and financial resources at the local, subnational, national, regional and global levels







Ensuring Sustainability of the Urban World -

Local and subnational governments in global efforts on sustainability in the post-2015 development agenda

Intergovernmental Framework

Environment

Assembly

(UNEA)



Initiatives led by local and subnational governments

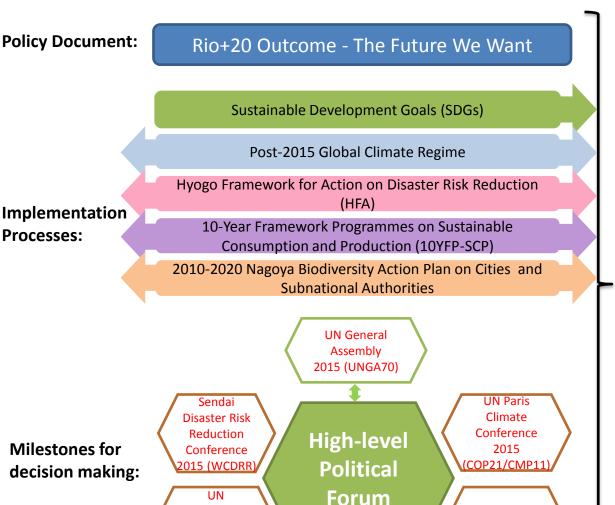












(ECOSOC/GA)

HABITAT-III

2016

For further information:



http://talkofthecities.iclei.org/iclei-climate-summit-2014/

www.iclei.org/climate-roadmap

www.carbonn.org

Phase:II of Seoul's One Less Nuclear Power Plant Action Plan

http://carbonn.org/uploads/tx_carbonndata/One%20Less%20Nuclear%20Power%20Plant%20Phase%202_17.pdf

Energy Safe Cities East Asia Programme - http://eastasia.iclei.org/our-activities/our-programs-projects/energy-safe-cities-east-asia-program.html

Resilient Communities America - http://www.resilientamerica.org/

Local Renewables Conference Series - www.local-renewables-conference.org/

Resilient Cities Congress Series - http://resilient-cities.iclei.org/

Urban-LEDS Project and Solutions Gateway - www.urban-leds.org / www.solutions-gateway.org

ICLEI World Congress, 8-12 April 2015, Seoul - www.iclei.org/worldcongress2015

