ICLEI's Activities on GHG inventories at regional or city level

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Outline of my presentation

- Our mission and objectives

- Our framework for Low Carbon Cities

- Global Protocol for Community-Scale GHG Emissions

- GHG Emissions Analysis/Planning software for cities

- Reporting platform for cities

- Our challenges

Association of local governments for sustainability

Created in 1990 at UN headquarter in NY

More than 1,000 members from 84 countries

Mission

to build and serve a worldwide <u>movement</u> of local governments working to achieve <u>tangible improvements</u> in global environmental and sustainable development conditions through <u>cumulative local actions</u>

Our roles as association of local governments

- **Connecting leaders**

  Leadership of mayors & governors, advocacy to increase political status of local governments at UN negotiations on conventions for sustainability

- **Accelerating actions**

  Pilot projects/programs and global coordination

- **Gateway to solutions**

  Tools for local governments, networking events, training workshops, international conferences,,,

Support of ICLEI for Low Carbon Cities
"You must count if you wish to reduce"

ICLEI
Local Governments for Sustainability

Global Protocol for Community Scale GHG Emissions

Accelerate
1. Monitor & review
2. Report & review
3. Enhance

Analyse
1. Commit & mobilize
2. Record & forecast ghg emissions
3. Identify & prioritize solutions

Act
1. Approve Priorities
2. Develop Specific Action Plans
3. Implement actions

carbonn R
CITIES CLIMATE REGISTRY

HEAT*plus*
HARMONIZED EMISSIONS ANALYSIS TOOL

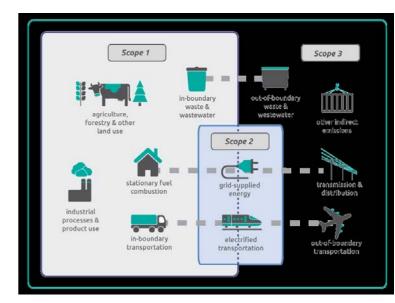# Global Protocol for Community-Scale GHG Emissions (GPC)

- A global framework for accounting and reporting city and community scale GHG emissions

- Developed in partnership by WRI, ICLEI, C40, the World Bank, UN-Habitat and UNEP

- To help cities to measure and report their GHG emissions in a standardized way

- To make the data more consistent, credible and comparable between cities

- 1st draft released in May 2012 and pilot-tested by 35 cities worldwide

- 2nd draft is now open for public review (by 18 Aug. 2014)
  http://www.iclei.org/fileadmin/user_upload/ICLEI_WS/Documents/Climate/GPC_Draft_2.0_for_public_comment.pdf

Improvements from the 1st Version

- Boundary setting for emission sources and reporting are more clarified
- Reporting levels accommodate city differences in technical capacity and data availability
- Elaboration of calculation methods and procedures by sector with new guidance on data collection and GHG emissions calculation
- Clarification on inventory aggregation to avoid double counting among national-regional-local levels

ICLEI's **online emissions inventory software** to help Local Governments to account Greenhouse Gas Emissions (GHGs), Common Air Pollutants (CAP) and other Volatile Organic Compounds (VOC)
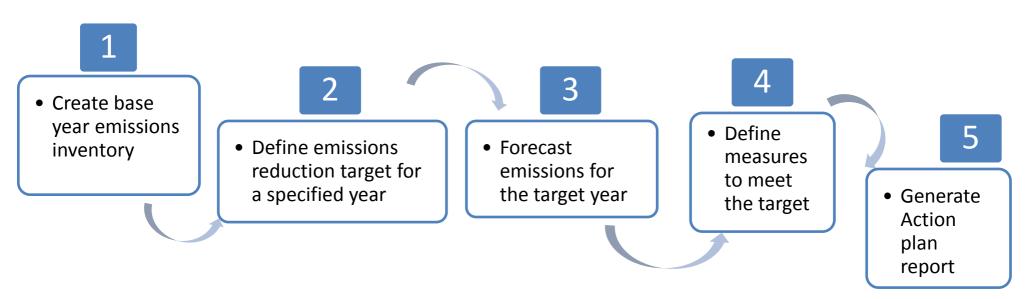
Track record
The original version developed by ICLEI USA office in early 90's, used widely by US cities followed by cities in Canada, Australia, South Asia, South East Asia, South Africa and Brazil

HEAT+ enables local governments to
- Prepare a baseline inventory
- Forecast emissions, e.g. Business-as-Usual (BAU) scenario
- Determine priorities
- Prepare action plans
- Track commitments
- Measure and quantify progress against targets through monitoring inventories
- Inform policy decisions
- Report to the international reporting platform for cities – carbon*n Cities Climate Registry (cCCR), the world's largest global database of local climate actions*

HEAT+ Functionalities

1 • Create base year emissions inventory

2 • Define emissions reduction target for a specified year

3 • Forecast emissions for the target year

4 • Define measures to meet the target

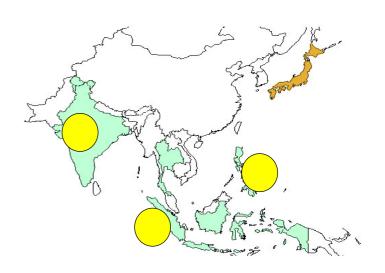**5** • Generate Action plan report

- *Build inventories* – Inventory records are built with respect to modules, sectors, subsectors, emission source categories and calculators.
- *Forecast* – Emissions are forecasted for respective sector and reference year to desired year with estimated growth rate.
- *Targets* – Set according to sector and base year to desired target year and % of reduction
- *Measures* – Built for various sectors in a similar manner as inventories based on targets set for emissions reduction.
- *Reports* – created in multiple varieties for both the modules, all sectors of inventories and measures and for action plans.

- 3 country versions in Asia
- Training and Guidance to use & collect data for trainers

- 18 cities in India have used HEAT or HEAT+
- 10 cities in Indonesia, 3 cities in Philippines have got training of HEAT+

- More than 28 cities of ICLEI Urban LEDS project in India, Indonesia, South Africa and Brazil are getting training to use HEAT+ and establishing their low carbon strategy
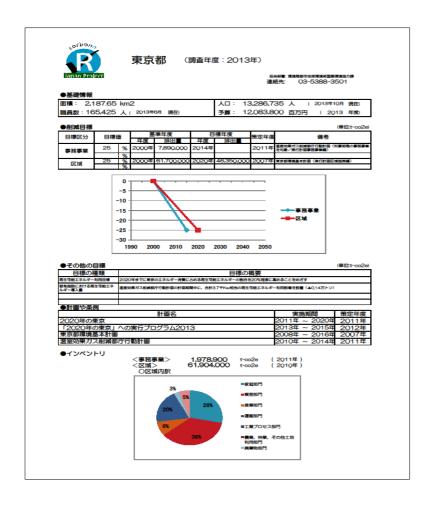
Carbonn Cities Climate Registry

Global voluntary on-line reporting system for local and sub-national governments
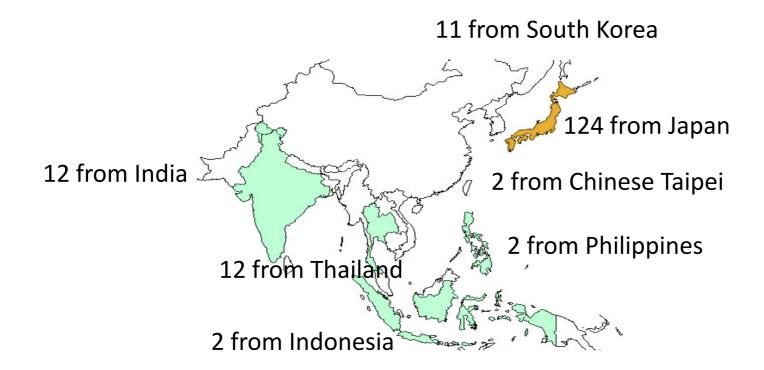

Reporting items:
- GHG target, action plan
- Inventory (community, government, per sector)
- Action reports (evaluation with GHG emission reduction)

⇒ Demonstrate leadership
⇒ Accountability & transparency
⇒ Exchange of experiences
⇒ Access to finance & engagement of citizens

http://citiesclimateregistry.org

Local Governments reported to cCCR in Asia

11 from South Korea

124 from Japan

12 from India

2 from Chinese Taipei

2 from Philippines

12 from Thailand

2 from Indonesia

165 reports from Asia with commitments, inventories and initiatives

The world's largest global database of local climate action*
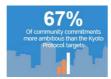www.citiesclimateregistry.org

ICLEI Local

Powered by: carbonn ICLEI

423 reporting cities

406
Million people represented
(That's one-seventh of the global urban population!)

566 Commitments 771 GHG Inventories

67%
Of community commitments more ambitious than the Kyoto Protocol targets

2.2
Gigatons of reported CO2e per year
(GtCO2e)

4208 Actions

2190
Actions financed by local budgets

Thank you for your attention

ICLEI-Local Governments for Sustainability : www.iclei.org
Global Protocol for Community-Scale GHG emissions draft version 2
http://www.iclei.org/fileadmin/user_upload/ICLEI_WS/Documents/Climate/GPC_Draft_2.0_for_public_comment.pdf
HEAT+ : GHG quantification and monitoring software : http://heat.iclei.org
carbonn **Cities Climate Registry (cCCR) :** http://citiesclimateregistry.org
Advocacy: www.iclei.org/climate-roadmap