Urban Resilience in the SAARC Region

5th December 2022
13:30 to 14:00 Hours

Emani Kumar
Deputy Secretary General
ICLEI – Local Governments for Sustainability
Introducing ICLEI-Local Governments for Sustainability

- An international city network established in 1990 that advances local sustainability

- ICLEI is the leading global network of more than 2500 local and regional governments committed to sustainable urban development

- Active in 125+ countries, we influence sustainability policy and drive local action

**IMPACTING MORE THAN 25% OF PEOPLE LIVING IN CITIES**

**24 OFFICES WORLDWIDE**
Introducing ICLEI South Asia

- ICLEI South Asia members and network cities: 100+
- ICLEI South Asia Head Office: Delhi
- Regional Offices: Dhaka, Kathmandu, Hyderabad
- State Offices: Coimbatore, Gandhinagar and Thane
- Project Offices: Siliguri, Chennai, Kochi, Lahual, Nagpur, Rajkot, Tiruchirapally, Tirunelveli, Vadodara, Shimla, Panaj and Udaipur
- 80+ professional staff including urban planners, energy managers, environmental planners, transportation engineers, ecologists and environmental engineers
The Five ICLEI Pathways

The FIVE ICLEI PATHWAYS towards low emission, nature-based, equitable, resilient and circular development are designed to create SYSTEMIC CHANGE. The pathways are a framework for designing INTEGRATED SOLUTIONS that balance the patterns of human life and the built and natural environments.
ICLEI South Asia promotes Urban Resilience in South Asian Cities through following technical interventions/ways

1. City Profile and Baseline Assessment (Energy Use and Greenhouse Gas Emission Inventories)
2. Systematic and Integrated Climate Action Planning Processes and Tools (ClimateResilientCITIES)
3. Climate Action Plans and City Resilience Strategies (CRS)
4. Urban Low Emission Development Strategies (URBAN-LEDS)
5. Holistic Solid Waste Management (SUNYA)
6. Promoting Climate Knowledge Brokering (CDKN-Knowledge Accelerator)
7. Greener and Resilient Recovery Solutions in Post Covid Economy (ReCAP21)
8. Urban Food Systems To Promote Nutritional and Food Security
9. Technical Support by Global Climate Action Partnership (GCAP) to Asian Countries (formerly Asia LEDS Partnership)
10. Open and Green Spaces, Nature Based Solutions, Urban Biodiversity
11. Transition Towards Sustainable Electric-Mobility
12. Promoting International Programs/Coalition e.g Making Cities Resilient 2030 (MCR2030), Global Covenant of Mayors (GCoM South Asia)
ICLEI South Asia lead Action Planning Journey in South Asian Cities since 2009

Energy Use and GHG Emissions Inventories

54 South Asian Cities Emissions Profiles (Using Harmonised Emissions Analysis Tool (HEAT, http://heat.iclei.org/) of 5 Countries of South Asia (India, Bangladesh, Nepal, Bhutan and Sri Lanka)

Cities Resilience Strategies and Action Plans

40+ Asian Cities Prepared Cities Resilience Strategies (CRS) and action plans using ICLEI ACCCRN Process (IAP)


15 Solar Cities Master Plan and supported in establishing Solar Cells (Lead Consultant to Government of India’s flagship Solar Cities program)
Climate Resilient CITIES

- First of its kind - Integrated Climate Change Mitigation and Adaptation Planning Methodology that also addresses bankability and implementation
- Builds on 20+ years of cumulative expertise
- Tested successfully in 20+ Asian cities (12+ South Asian cities)
Climate Resilience Action Plans of South Asian Cities

- **Rajkot**: 14% by 2022-23 from 2015 levels
- **Udaipur**: 18% by 2022-23 from 2015 levels
- ***Thane**: 22% by 2025-26 over the 2017-2018 baseline emissions
- **Rajshahi**: 9.64% by 2026-27 over the 2017-2018 baseline emissions
- **Coimbatore**: 33% by 2022-23 from 2015 levels
- **Siliguri**: 14.8% by 2022-23 from 2015 levels
- **Nagpur**: 20% by 2025-26 over the 2017-2018 baseline emissions
- **Narayanganj**: 12.6% by 2026-27 over the 2018-2019 baseline emissions
- ***Kurunegala**: 22% by 2030 from 2016 levels
- ***Sarpang**: 8% by 2030 from the projected emissions

Climate Action Plans are approved by local municipal councils.
*Cities CAPs are submitted for council resolution.*
Urban Low Emission Development Strategies URBAN-LEDS (Phase II)

Integrated low emission and resilient development in more than 60 cities in 8 countries (two countries in South Asia)

Bangladesh:
- Model Cities: Rajshahi & Narayanganj
- Satellite Cities: Singra, Sirajganj, Faridpur, Mongla (peer learning and exchange)

India:
- Model Cities: Nagpur & Thane, Rajkot (learning and exchange)
- Satellite Cities: Coimbatore, Gwalior, Panaji, Pimpri-Chinchwad, Shimla (peer learning and exchange)
Holistic Waste Management support to South Asian Cities

- Baseline SWM Assessments and preparation of Holistic Solid waste management action plans: 20+ cities in South Asia
- SUNYA – Towards Zero Waste: Promoted source segregation, segregated transport and implementation of decentralised waste processing facilities - Udaipur, Coimbatore, Varanasi, Hyderabad, Kota, Shimla, Kishangarh, (India) Jaisalmer, Hetauda & Tansen (Nepal) among others
- Plastic Waste Strategy and Action Plan and implemented pilot projects in Hyderabad
- Identified and developed investment-ready potential projects on plastic waste management for Asian cities
- Trained and capacitated more than 500 municipal officials under Swachh Bharat Mission
Integrated Solid Waste Management Projects (Pilot Demonstration Projects)

Sunya in Coimbatore (Ward number 22 & 24)

Sunya in Siliguri (ward number 2 & 17)

Sunya in Udaipur (ward number 1 & 41)

1.5TPD Waste to Biomethanation Plant in Coimbatore (Being scaled up to 200 TPD)

Landfill Gas Assessment in Siliguri

2 TPD Waste to Biomethanation Plant in Udaipur (scaled up to 20 TPD)
CDKN-Knowledge Accelerator – Brokering Climate Knowledge in India, Nepal and Bangladesh

**Capacity building on climate resilience**

- Training and capacity building of local governments on climate resilience planning: webinar series, training programmes, peer exchanges
- Reached out to more than 50 municipalities in the region
  - Well appreciated and generated great demand for further and more detailed training programmes
- Developed detailed training modules for local governments-climate resilience planning methodology
  - Published online-regularly accessed by municipalities in the region

**Urban Heat Resilience**

- Identification of heat resilience hot spots and heat thresholds in cities of Nepal and Bangladesh (Nepalgunj and Rajshahi)
- Guidance notes on early warning and early action on heat resilience in secondary cities
- Developed IEC materials for awareness generation on heat resilient actions
CDKN-Knowledge Accelerator

Knowledge Basis Projects

- Supported Climate Smart Agricultural practices (CSA) in Gandaki Province (Nepal) in partnership with LIBIRD.
- Water forums for inclusive and equitable water governance in Dhulikhel and Dharan municipalities of Nepal-in partnership with SIAS-water forums included in municipal budget as a means of water governance system.
- Evaluation of adaptation trials in Ganga-Brahmaputra-Meghna delta region to promote climate action and assess changes in adaptative capacity in local population-in partnership with BUET, Bangladesh.

- Knowledge products-policy briefs, IEC materials, training materials on CSA; Manual for developing water forums (more than 20 products developed)
- Voluntary Local Review for Dhulikhel (Nepal) and Singra (Bangladesh)
- Training and capacity building of women farmers; local governments
- Handholding support to farmers to implement demonstration initiative on CSA; water forums
- Field survey, FGDs, model demonstration
- Webinars and consultation (more than 10)
CDKN-Knowledge Accelerator

- Climate Finance in Bangladesh, India and Nepal: A compendium of finance sources and instruments to support climate action - externally reviewed compendium of finance sources for countries India, Bangladesh and Nepal for climate action: Launched at COP 27

- Nature-based Solutions for urban climate resilience in South Asia: Cases from Bangladesh, India and Nepal - compendium of good practices on nature based solutions from India, Bangladesh and Nepal that can be replicated by local governments and partners in the region: Launched at COP 27
Resilient Cities Action Package 2021 (ReCAP21) in Bangladesh

- Installation of Water ATM and Handwashing stations at four sites in Rajshahi City to benefit most the poor and vulnerable sections
- Bangladesh Resilient Recovery Training on 11th and 12th October 2021 (Trained 16 Cities officials from Rajshahi and Narayanganj)
- Guidebook on ‘Green Recovery and Resilience in Cities’
- Organized the ‘Talanoa Style High Level Dialogue for Climate Action in Bangladesh’ on 25th November 2021
- Two local project proposals submitted to TAP project pipeline and secured seal of approval from TAP
Climate Resilient Inclusive Smart Cities (CRISC) project

- Develop climate resilient and inclusive urban development plans for selected cities in Bangladesh. ICLEI SA Cities involved in training for local and national actors, policy dialogue, peer to peer exchanges.

- Project cities: Sirajganj and Satkhira Municipality of Bangladesh (Rajshahi, Barishal, Khulna)


- Towards achieving the German Development Cooperation’s (GDC) goal for the Government of Bangladesh (GoB) Training in Sirajganj and Satkhira, March 2022.

Power point presentations in English and Bengali
Handout in Bengali
Trainers Handbook in English

Urban Food Systems in Asia

Improving urban food systems and their impacts on the food choice, dietary patterns and the state of food security and nutrition among the urban residents in India, Sri Lanka and Maldives.

**Project Location**

Colombo, Sri Lanka

Pune, India

Male, Maldives

Phase 1: Surveys with city planners/municipal officials to learn about policies and actions in cities (47 interviews)

Phase 2: Surveys with urban food suppliers to learn about challenges that suppliers face along the food chain (45 interviews)

Phase 3: Surveys with urban households (700+ families)

Two Stakeholder Consultation to present the survey findings (Feb 2019)
Developing Climate Action Plans (CAPs) for Dhaka North and South City Corporations, Bangladesh

- Develop GHG inventories for DNCC and DSCC
- Develop city-wide emission projections and pathway models for 2030/2050 scenarios
- Climate Risk and Vulnerability Assessments (CRVAs)
- Identify and prioritise climate adaptation and mitigation targets
- Develop monitoring, governance and implementation plans for CAPs
- Develop Climate Action Plans (CAPs) for Dhaka North and South City
Stakeholder consultation meeting on framework for national electric mobility policy, Sri Lanka on 27 August 2019 and 11th November 2019

Framework for Development
A Policy on Electric Mobility, Sri Lanka

Bhutan: scoping of pre-BRTS, Thimphu city

SNI CoP Webinar series
a) Climate planning (19 Jan 2022)
   a) Prioritization and structuring of projects (25 Jan 2022)
   b) Measurement, Reporting and Verification (MRV) guidance for sub-national governments (27 Jan 2022)

CRCAP training, Bhutan, 7-8 October 2019 Participants from Gelephu city and Sarpang district

First Shared Learning Dialogue for CRCAP preparation Kurunegala city, 11 July 2019

TA
• Preparation of CRCAP Report for Sarpang district (Bhutan) and Kurunegala city (Sri Lanka)

Case Study
• India’s Policy for Scaling up Energy Efficiency Measures at the Local Level: City of Rajkot, India

Case Study
• Achieving a Climate-Responsive Budget in the Philippines through Climate Change
Urban Biodiversity Projects in South Asian Cities

- Urban Biodiversity Map
- City Biodiversity Index
- Biodiversity Strategy Action Plan
- Home Gardens - Ecosystem Services
- Natural Asset Map
- Investment Case on Mangrove Conservation
- Pollinator Garden
- Nature Interpretation Centre
- Environmental Education
Cities Dialogue on “Accelerated Transition Towards Sustainable E-Mobility in India” from 13th – 14th October 2022 in Delhi, India

• Discussion around EV uptake patterns, identifying and prioritising high-impact modes for electrification, strategic expansion of charging infrastructure, and sustainable electrification of cities freight.

• Cities dialogue brought together total 140 participants including representatives from 18 Indian cities, 6 state government agencies, 11 public transport operators and national government officials, sectoral experts along with representatives from advocacy groups and the private sector.
Global Covenant of Mayors for Climate & Energy (GCoM) South Asia

GCoM Cities: Globally 12,629 cities (36 in South Asia, 29 in India)

GCoM Committed cities work towards compliance with the GCoM framework, benefiting from direct support from ICLEI and other GCoM partners in the form of technical assistance, training, advisory support and analysis and peer-to-peer learning programs. As part of their commitments, signatories:

- Develop a greenhouse gas emissions inventory and report their results.
- Assess climate risks and vulnerabilities and report their results.
- Define ambitious climate change mitigation targets.
- Develop integrated climate action plans to meet their stated targets and goals.
- Implement planned measures to reach targets and goals.
- Monitor and measure progress on a regular basis.
- Report on CDP-ICLEI Track

ICLEI South Asia as a GCoM South Asia Technical Coordinator provide following services to GCoM Signatories

- Technical support to GCoM network, local governments, and relevant stakeholders in South Asia
- Contribute to the GCoM Asia technical assistance for CAPs review, development, and reporting
- Management of the GCoM knowledge platform functions
- Organisation of GCoM Asia webinar series
- Establish and follow-up dialogue with International Financial Institutions (IFI), donors and commercial banks on possibilities to finance projects arising from the cooperation, especially through the TAP platform

Website: https://covenantofmayors-southasia.eu/
GCoM South Asia Technical Coordinator Email: gcomcoordinator@icleisouthasia.org
Making Cities Resilient 2030 (MCR2030)

MCR2030 is a unique cross-stakeholder initiative for improving local resilience through advocacy, sharing knowledge and experiences, establishing mutually reinforcing city-to-city learning networks, injecting technical expertise, connecting multiple layers of government and building partnerships.

Stage A: Cities Know better
Stage B: Cities Plan Better
Stage C: Cities Implement Better

Access to various tools and resources:

1,473
MCR2030 cities
Join Now

457,763,260 72
People living in MCR2030 cities MCR2030 countries and territories

667
Stage A cities

338
Stage B cities

468
Stage C cities

Incheon Metropolitan City is the Republic of Korea's third largest city, host to UNDRR and other United Nations organizations in the Republic of Korea as well as the Green Climate Fund. Incheon is a recognized Making Cities Resilient 2030 Resilience Hub.

Sign up here: https://mcr2030dashboard.undrr.org
Support – from process to projects
Thank You!

Emani Kumar
Deputy Secretary General
ICLEI Local Governments for Sustainability

E-Mail: emani.kumar@iclei.org, iclei-southasia@iclei.org