

Swiss Agency for Development and Cooperation SDC





Siliguri





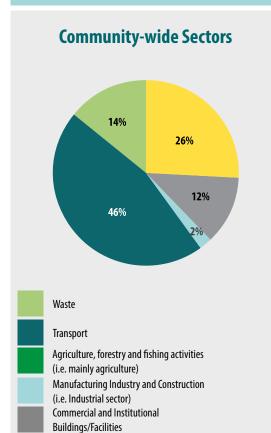


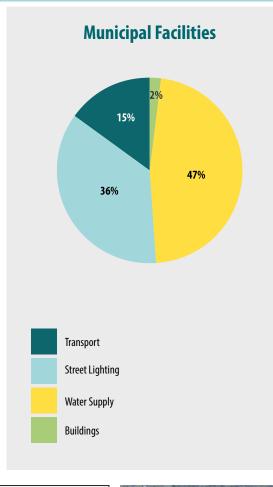


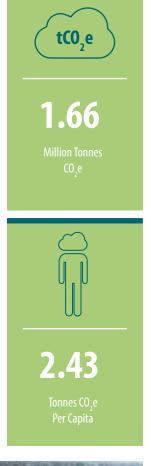




GHG Emissions (2020-21)







CapaCITIES addressing

Residential Buildings







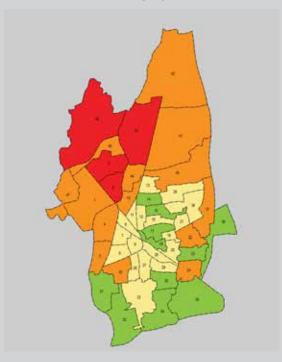






Vulnerability Assessment

Four Wards Highly Vulnerable



- Wards impacted by Four Fragile Urban Systems
- Wards impacted by Three Fragile Urban Systems
- Wards impacted by Two Fragile Urban Systems
- Wards impacted by One Fragile Urban Systems





Solid Waste Management

Behavioural change for source segregation



NRW and limited supply



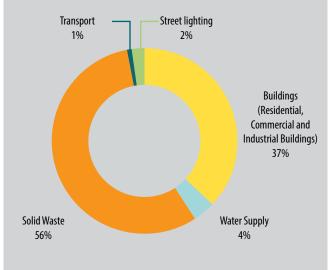
Dependence on private transport





Climate Action Plan Potential by Sectors (2018-19 to 2022-23)

Estimated annual mitigation potential of 0.15 million tCO,e over the 2015-16 baseline



Sectorwise GHG Mitigation Potential

Proposed Climate Actions

(short term and medium term)



Buildings (Residential, Commercial, Institutional)

Solar PV systems, energy efficient fixtures, green building designs



Water Supply

Reduction of non-revenue water and installation of captive solar PV plants at water pumping stations



Streetlights

Replacement of existing street lighting with LED lamps through and installation of solar PV Systems



Transport

Solar PVs, Introduction of electric vehicles, traffic decongestion, and introduction of public transport systems, energy efficient fixtures, green building designs



CARBON FOOT PRINT

Target

14.6% less by 2022-23



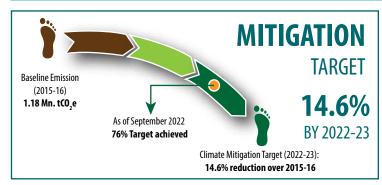
Scaling up Sunya to whole Siliguri and improved waste processing at end point



Biodiversity

Carbon sequestration, urban forestry, Local Biodiversity Strategy and Action Plan

Implementation Status of Climate Resilient City Action Plan (September 2022)



Baseline GHG emission 2015-16	1,182,542
CRCAP target (2022-23) (14% of 2015-16 baseline)	154,174
Emission reductions achieved until September 2022	117,377
% of target achieved as of September 2022	76%

Implementation Status of Climate Resilient City Action Plan (Sep. 2022)

Energy Efficiency in Street lighting

Conversion of traditional streetlights to LED lights (21,042 streetlights converted)



GHG Mitigation per year 3,661 tCO_,e



Source of Funding
Smart City Mission

GHG Mitigation per year 152 tCO,e



100 kWp Solar PV for municipal buildings



\$

Source of Funding

Smart City Mission

Climate Friendly Solid Waste Management

CapaCITIES supported projects:

- IEC and awareness activities in 2 wards under Sunya
- Waste quantification and characterisation study
- 1 TPD organic waste processing facility

Replication by the city:

- IEC and awareness in 24 wards
- 20 TPD organic waste processing facility
- Legacy waste management



GHG Mitigation per year 113,483 tCO.e



Source of Funding

Swachh Bharat Mission; Nirmal Bangla Mission



Adaptation Benefits

Avoided rainwater clogging due to waste lying on roads, enhanced quality of life, reduced vector borne diseases

Renewable Energy in Municipal Facilities

CapaCITIES supported projects:

- Two sensor based water leak detection instruments provided to the city
- Leaks in water distribution network assessed in 9 wards

Replication by the city:

• Leaks in water distribution network assessed in all 47 wards



GHG Mitigation per year 82 tCO,e



Source of Funding Municipal Budget



Adaptation Benefits

Reduced NRW, improved water management

Air Quality

CapaCITIES supported projects:

 Installation of sensor based ambient air quality stations at 3 locations & LCD screens for dissemination



GHG Mitigation per year 152 tCO₂e



Adaptation Benefits

Data based planning for air pollution for priority areas, awareness amongst citizens

CapaCITIES contribution to India's Nationally Determined Contribution (NDC) by

enabling a 'Lifestyle for Environment', ensuring a climate friendly and cleaner path; contributing to a reduction in emissions intensity of GDP; enhancing renewable energy capacity; enhancing investments in key vulnerable sectors such as water resources; mobilizing domestic and international funds for climate action and building capacities and frameworks for quick diffusion of cutting edge climate technology in India'

Building CapaCITIES Beyond Climate Actions

National and Global Reporting:

- CSCAF 2.0
- CDP- ICLEI Track
- · Global Covenant of Mayors for Climate and Energy
- National Green Tribunal

CSCAF 2.0 ★★★

Awarded as soon as one of the steps (i.e. Inventory, Target, or Plan) is accomplished



CapaCITIES support to sustainable Urban Development

- Atal Mission for Rejuvenation and Urban Transformation (AMRUT)
- · Swachh Bharat Mission (SBM)
- · Support during COVID

Implementing partners







Knowledge Partner



For more information, please contact

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