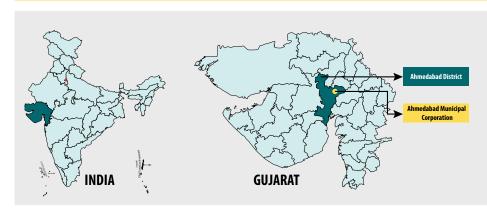


**Swiss Agency for Development** and Cooperation SDC





# **Ahmedabad**



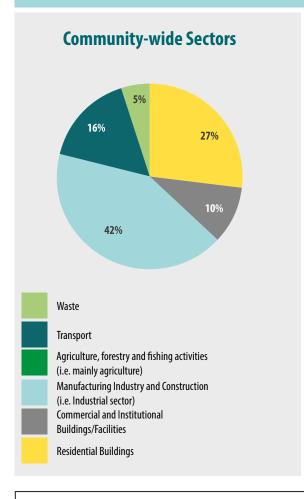


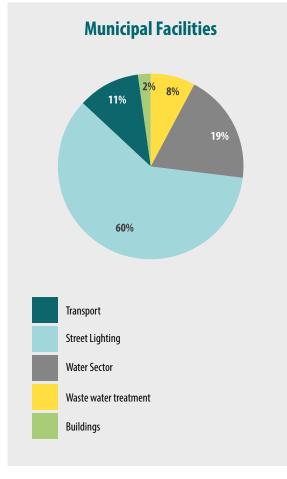


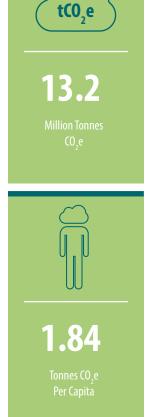




# GHG Emissions (2020-21)



























# **Simplified Climate Resilient City Action Plan**

# **Urban System Challenges**



## Water

Dependency on water sources outside city & ground water



## **Transport**

Limited public transport fleet & last mile connectivity



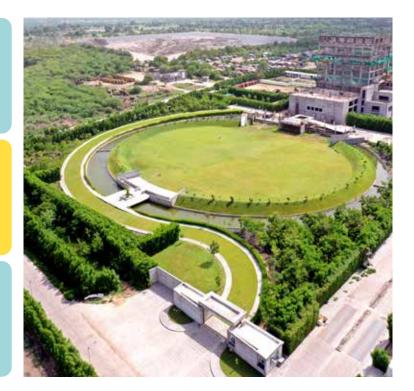
**Storm Water** 

Water stagnation & flooding

**Energy**Low penetration of RE

and EE appliances







Old sewerage network and illegal connections

# **Performance Assessment**



- 1) Procurement & Finance
- 2) City Planning
- 3) Cooperation & Communication
- 4) Buildings
- 5) Mobility
- 6) Waste
- 7) Water & Sewage
- 8) Biodiversity
- 9) Energy / Energy Infrastructure

**Baseline Target** 

		BASELINE		TARGET	
	AREA		RESULT	GRADE	TARGET
1	Procurement and Finance	2.00	50%	2.50	63%
2	City Planning	2.75	69%	4.00	100%
3	Cooperation and Communication	2.83	71%	3.33	83%
4	Buildings	1.50	38%	3.10	78%
5	Mobility	2.72	68%	3.61	90%
6	Waste	3.00	75%	3.63	91%
7	Water and Sewage	2.25	56%	3.92	98%
8	Biodiversity	3.00	75%	4.00	100%
9	Energy / Energy-Infrastructure	1.67	42%	2.00	50%
Overall		2.42	61%	3.34	84%

# **Example of Implemented Climate Actions (2019-2022)**

## **Renewable Energy in Municipal Buildings**

1 MW roof top solar PV for municipal buildings



GHG Mitigation per year 1,277 tCO<sub>3</sub>e



Mode of Implementation

Municipal Budget

3.5 MW roof top solar PV for municipal buildings (proposed)



GHG Mitigation per year 4,471 tCO<sub>3</sub>e (4)

Mode of Implementation

Municipal Budget

## **Renewable Energy in Water and Sewage Treatment**

8.4 MW wind power plant for WTPs and STPs



GHG Mitigation per year 16,661 tCO<sub>.</sub>e



Mode of Implementation

Municipal Budget

12.6 MW wind power plant for WTPs and STPs (proposed)

500 TPD Waste to Bio-CNG Plant (Proposed)



GHG Mitigation per year 25,918 tCO<sub>.</sub>e



Mode of Implementation Municipal Budget

## **Climate Friendly Solid Waste Management**

2000 TPD waste to energy plant (proposed)



GHG Mitigation per year 612,000 tCO<sub>3</sub>e



Mode of Implementation

> Public Private Partnership



GHG Mitigation per year

126,930 tCO<sub>2</sub>e



Mode of Implementation

> Public Private Partnership



## **Adaptation Benefits**

Reduced waste at landfill, replacing conventional fuel with Bio-CNG leading to reduced air pollution & related health hazards

# **Adaptation Benefits**

Reduced waste at landfill & related health hazards

#### **Wastewater treatment**

Augmentation of existing STPs (Increased capacity from 712 MLD to 978)



## **Mode of Implementation**

World Bank grant under Gujarat Resilient Cities Program (GRCP)



## **Adaptation Benefits**

Reduced disposal of untreated wastewater into water bodies, reduced contamination and related health impacts

#### Flood mitigation and ground water recharge

Lake Interlinking, flood mitigation and ground water recharge



## **Mode of Implementation**

National Lake Conservation Program (NLCP)



#### **Adaptation Benefits**

Reduced flooding impact, improved condition of local water resources, improved ground water table

#### **Improving Green Cover**

**Development of 128 Urban Forest** 



# Mode of Implementation

Municipal Budget and 15th FC Clean Air Budget



# GHG Mitigation per year

Not assessed



## **Adaptation Benefits**

Improved green cover & related biodiversity, decrease in surface temperature and heat island effect

## **Low Carbon Mobility**

Replacement of 350 diesel buses with electric buses



Mode of Implementation



GHG Mitigation per year 19,591



# **Adaptation Benefits**

Reduced air pollution and related health issues, reduction in heat sources

# **Support Under CapaCITIES Phase II**



# Climate Action Planning & Net Zero Targets

 Preparation of Comprehensive Climate Resilient City Action Plan

SOUTH ASIA



# Bankable and Innovative Finance Projects

- Carbon Monetisation for e-bus project
- Innovative financing through monetisation of plastic credits
- Sustainable energy action plan for Ahmedabad to maximise use of RE for own use



# Quick win/ Co-Financing Projects

- Floating solar on lake
- Electric Charging Station (Opportunity charging for buses)



## **Other Support**

- CSCAF by MoHUA (City has received 4 start rating)
- Urban Outcome Framework by MoHUA

## Actions proposed in Simplified Climate Action Plan contribute 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.











**Knowledge Partner** 



For more information, please contact