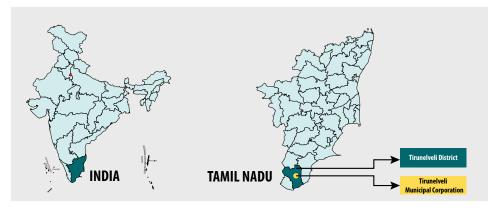


Swiss Agency for Development and Cooperation SDC





Tirunelveli



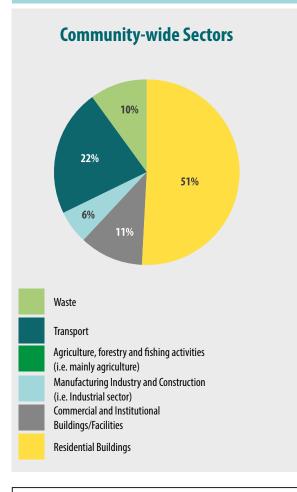


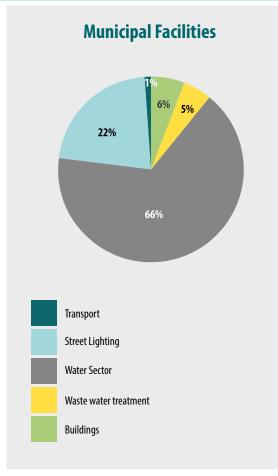


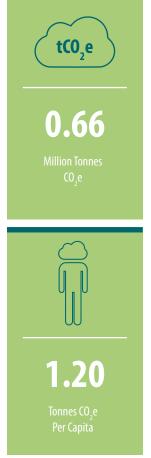




GHG Emissions (2020-21)



























Simplified Climate Resilient City Action Plan

Urban System Challenges



Water

Dependency on only Tamirabarani River and **Ground Water**



Transport

Narrow Roads in old city areas, lack of adequate public transport facilities



Biodiversity

Haphazard development, decreasing green cover



Storm Water

Lack of covered pucca drains, water stagnation & urban flooding





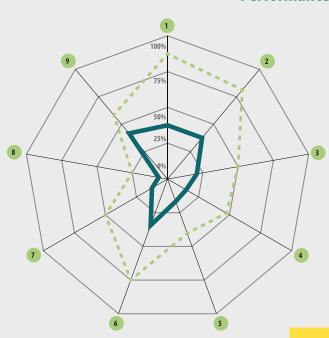
Sewage

Choked old sewerage network, Open **Sewerage Drains**



Lack of RE for Municipal Services and lack of EE appliances and systems

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	GRADE	RESULT	GRADE	TARGET
1	Procurement and Finance	1.50	38%	3.50	88%
2	City Planning	1.50	38%	3.25	81%
3	Cooperation and Communication	0.83	21%	2.00	50%
4	Buildings	0.60	15%	1.90	48%
5	Mobility	0.67	17%	1.61	40%
6	Waste	1.38	34%	3.00	75%
7	Water and Sewage	0.50	13%	2.00	50%
8	Biodiversity	0.25	6%	1.00	25%
9	Energy / Energy-Infrastructure	1.67	42%	2.33	58%
Overall		0.91	23%	2.29	57%

Example of Implemented Climate Actions (2019-2022)

Renewable Energy and Energy Efficiency in Municipal Services

5 MWp Solar PV for Captive Consumption



GHG Mitigation per year 6,846 tCO.e



Mode of Implementation

Smart City Mission



GHG Mitigation per year 356 tCO,e



260 kWp Rooftop Solar PV on 36 Municipal Buildings

Mode of Implementation

Smart City Mission

Conversion of streetlights to LED



GHG Mitigation per year 4,734 tCO_.e



Mode of Implementation

Smart City Mission

Climate Friendly Solid Waste Management

Micro-Compost Centers for Treatment of Wet Waste



GHG Mitigation per year 5,736 tCO₃e



Mode of Implementation

AMRUT and Smart City
Mission



GHG Mitigation per year

120,167 tCO₂e



Mode of Implementation

Smart City Mission

Green Cover & Biodiversity

Development of Miyawaki Urban Forest at scientific closure site of compost yard



Adaptation Benefits

Acts as carbon sink and improves micro-climatic condition in the dumpsite



Bio-mining of legacy waste

Mode of Implementation

CSR Funded

Water Supply

SCADA System for Water Supply and Distribution



Adaptation Benefits

Improves efficiency in water supply and distribution given limitations in water supply



Mode of Implementation

Smart City Mission

Wastewater Management

Under Ground Sewerage System Phase II



Adaptation Benefits

Open Sewage drains are being replaced with underground sewerage network improving waste water collection



Mode of Implementation

Tamil Nadu Urban Flagship Investment Program (TNUFIP)

Support Under CapaCITIES Phase II



Climate Action Planning & Net Zero Targets

 Preparation of Comprehensive Climate Resilient City Action Plan



Quick win/ Co-Financing Projects

- Watershed Assessment,
 Management and financing
 Plan to enhance disaster
 resilience
- Early Warning System for Urban Flooding



Technical Assistance Projects

- Preparation of Solid Waste Management Action Plan
- Identification of sites for developing green spaces



Other Support

- · CSCAF by MoHUA
- Urban Outcome Framework by MoHUA
- DPR for developing Web-based GIS mapping of Tirunelveli

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.



Implementing partners







Knowledge Partner



For more information, please contact

ICLEI - Local Governments for Sustainability, South Asia

C-3, Lower Ground Floor, Green Park Extension, New Delhi - 110016, India Tel: +91 – 11 – 4974 7200; Fax: +91 - 11 - 4974 7201; E-mail: idei-southasia@iclei.org