



Energy Efficiency in Urban Environment in Rajkot Municipal Corporation

Presentation by

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Rajkot Municipal Corporation

Rajkot, Gujarat



Rajkot- At Glance

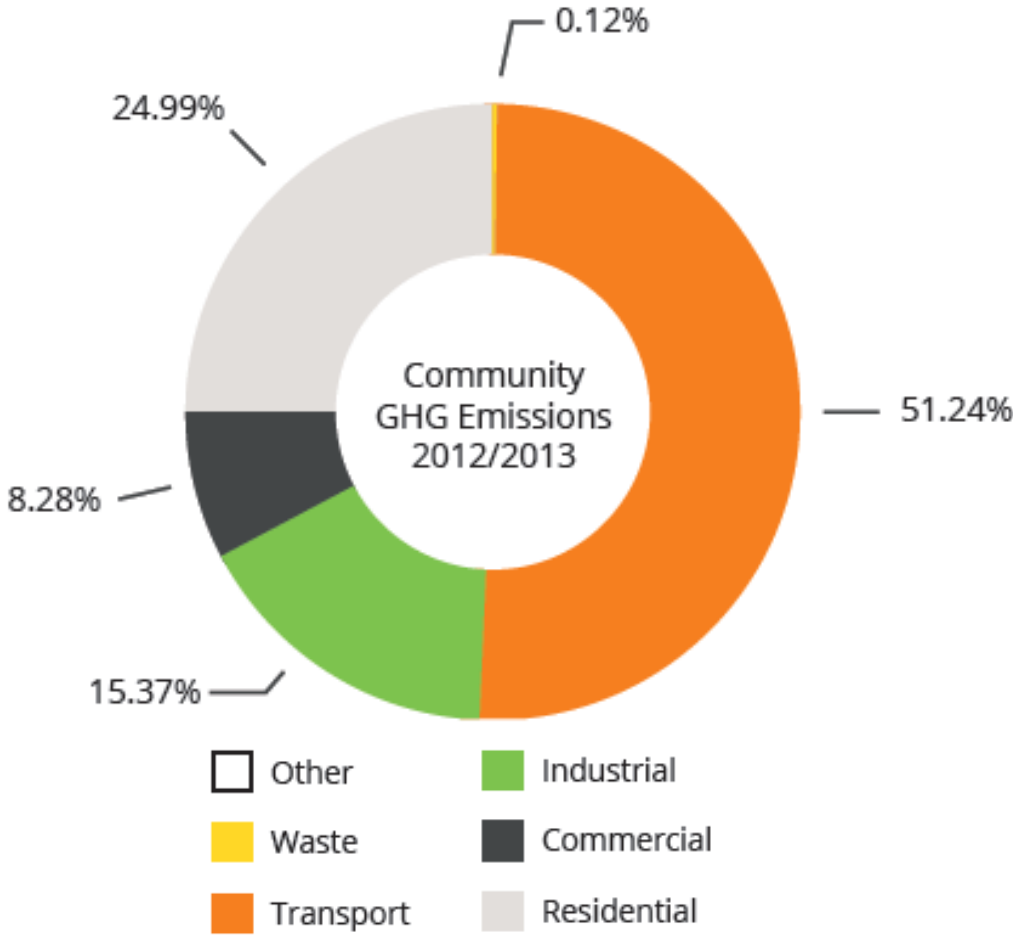


- Fourth Largest Municipal Corporation of Gujarat
- Area:
 - RMC: 129.21Sq.Kms
 - RUDA: 686 sq. km
- City population : 12,86,678
- Climate:
 - Maximum: 43.50 C
 - Minimum: 24.2 O C
- Rain fall: Avg. 500 mm
- City wards: 23

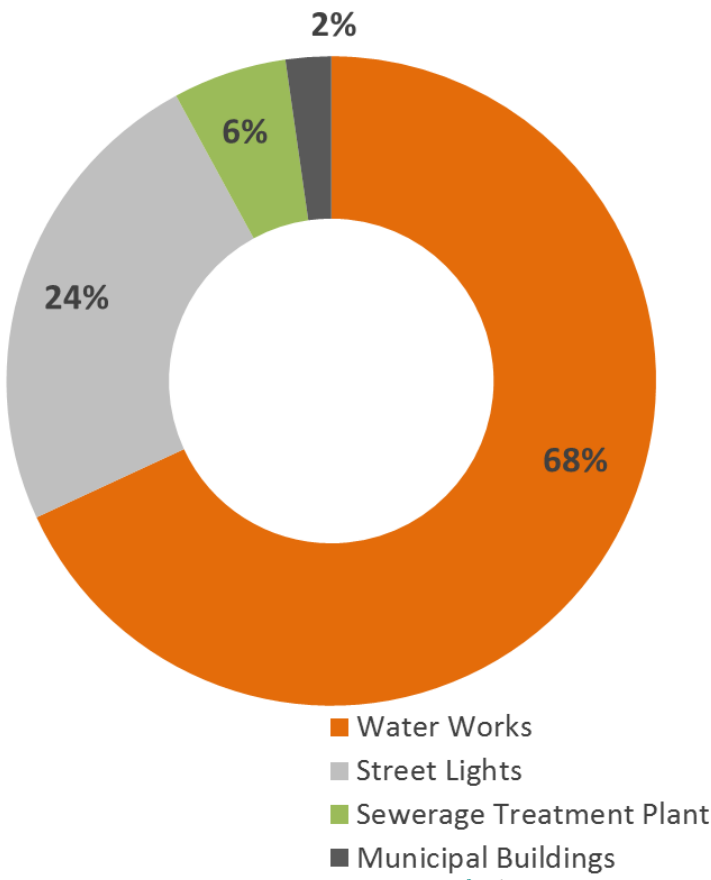


GHG Emissions 2012/2013 - Rajkot

**Community GHG Emissions
2012/2013**



**GHG Emissions from Municipal
Services 2012/2013**



Priority Sectors for Rajkot



Energy efficiency in Street lighting



Waste water treatment



Affordable Housing



Water Supply



Public Transport

Initiatives by RMC

- Published and ratified intent of RMC to become a carbon neutral corporation by 2020- action plan under preparation through Urban LEADS
- Green Building design initiative (for affordable housing schemes)
- Bus Rapid Transit System (BRTS)
- Bye laws for Solar water heating system for various types of buildings
- Solar PV Power Plant at RMC West Zone office – 70 KW
- Solar PV Power Plant at RMC East Zone office – 50 KW
- Energy Saver Units (ESU) for Street Lights
- Revival of District Level Energy Park
- Cycle sharing initiative (NMT)
- Plastic free city

LED Solutions – Proposed

- Energy efficient star rated appliance retrofits
- Solar water heating systems
- Solar PV systems
- Green building design
- Energy efficient boilers and furnaces
- DEWATS
- LED Street lighting
- NRW reduction
- Energy efficient pumping
- CNG based public transport and vehicles
- Bio-methanation of Solid Waste

Pilot implementation of LED solutions: Urban - LEADS

1. Revamping of Energy Park
 2. Energy efficiency in street lighting by replacement of sodium lights with LEADS
 3. Installation of DeWAT system at Jilla Garden with energy generation (biogas/electricity)
 4. 20 kW grid SPV installation at Sarojini Naidu Municipal School
- Also preparation of a Low Emissions Development Strategy for Rajkot City

DISTRICT ENERGY IN CITIES

·I·C·L·E·I
Local
Governments
for Sustainability



UN HABITAT
FOR A BETTER URBAN FUTURE

A Global Initiative to Unlock the Potential of Energy Efficiency and Renewable Energy

In collaboration with:



Potential for District Energy Systems

– Proposed Study

Objectives

- Demonstrate to develop and implement a district energy approach
- Refine methodology for different regions and for different applications (cool, refurbishment, integration of renewables etc.)

Activities

- Convene multi-stakeholders in cities to undertake ‘deep assessment’ in collaboration with DES Initiative Partners
- Identify specific area within pilot city for deep dive analysis for establishing potential for DES
- Capacity building, training for the adaptation of DES modules and methodological tools developed
 - Development of energy baselines and systems for tracking performance through detailed sample surveys and assessment of local energy resources
 - Preparation of an energy/climate strategy and policy-investment roadmap for DES implementation
 - Preparing the Terms of Reference for implementation of Demonstration Project

Rajkot City – Linkage to the Global Climate Agenda

- Participant in the Compact of Mayors
- Using the Global Protocol for Community Level GHG Emissions – GPC: Inventory developed according to this protocol under Urban LEADS project
- Reporting GHG emissions inventory to Carbonn Climate Registry
- Developing LEADS strategy for the city with proposed MRV – significant potential for linkage to climate financing

THANK YOU