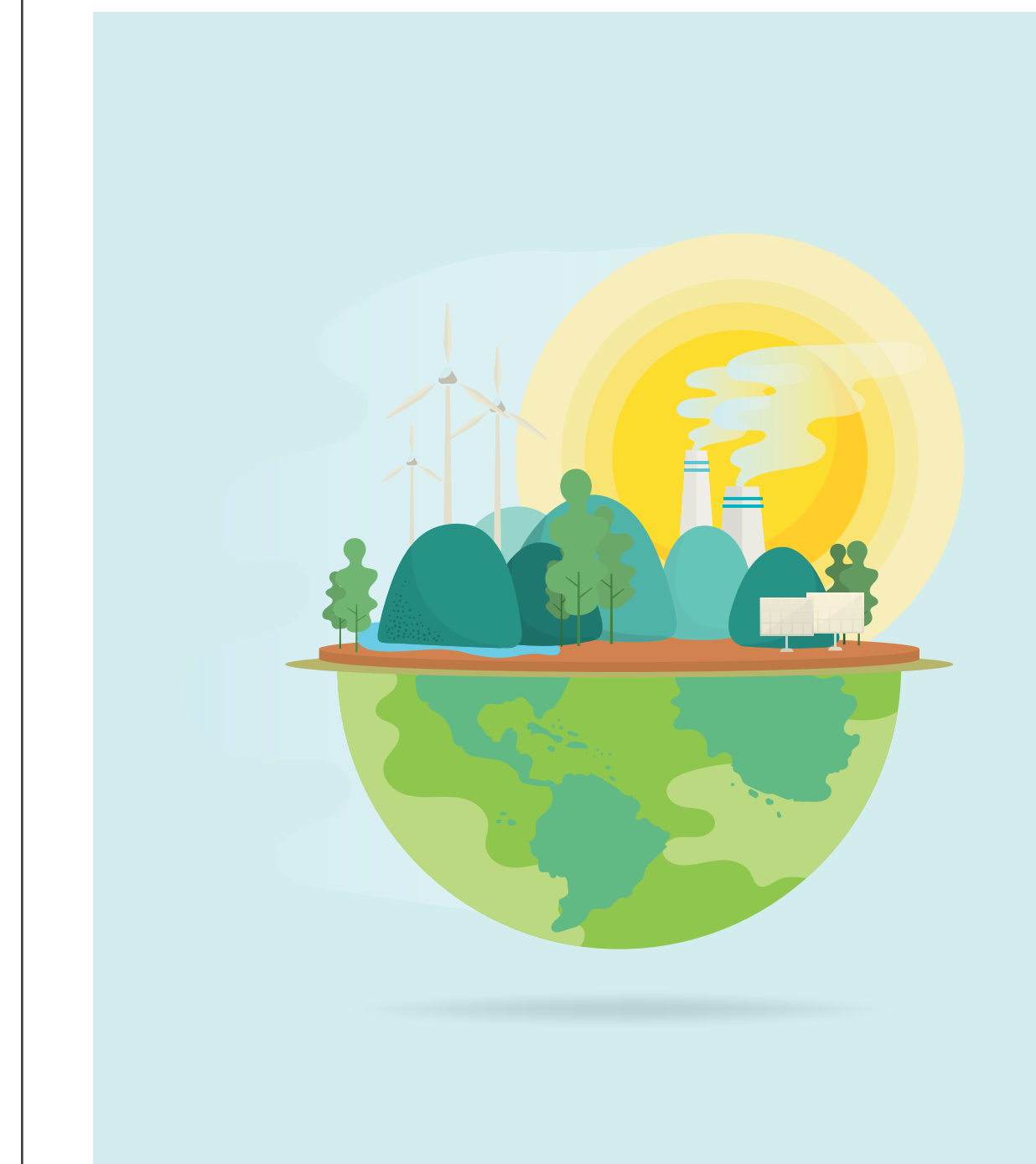


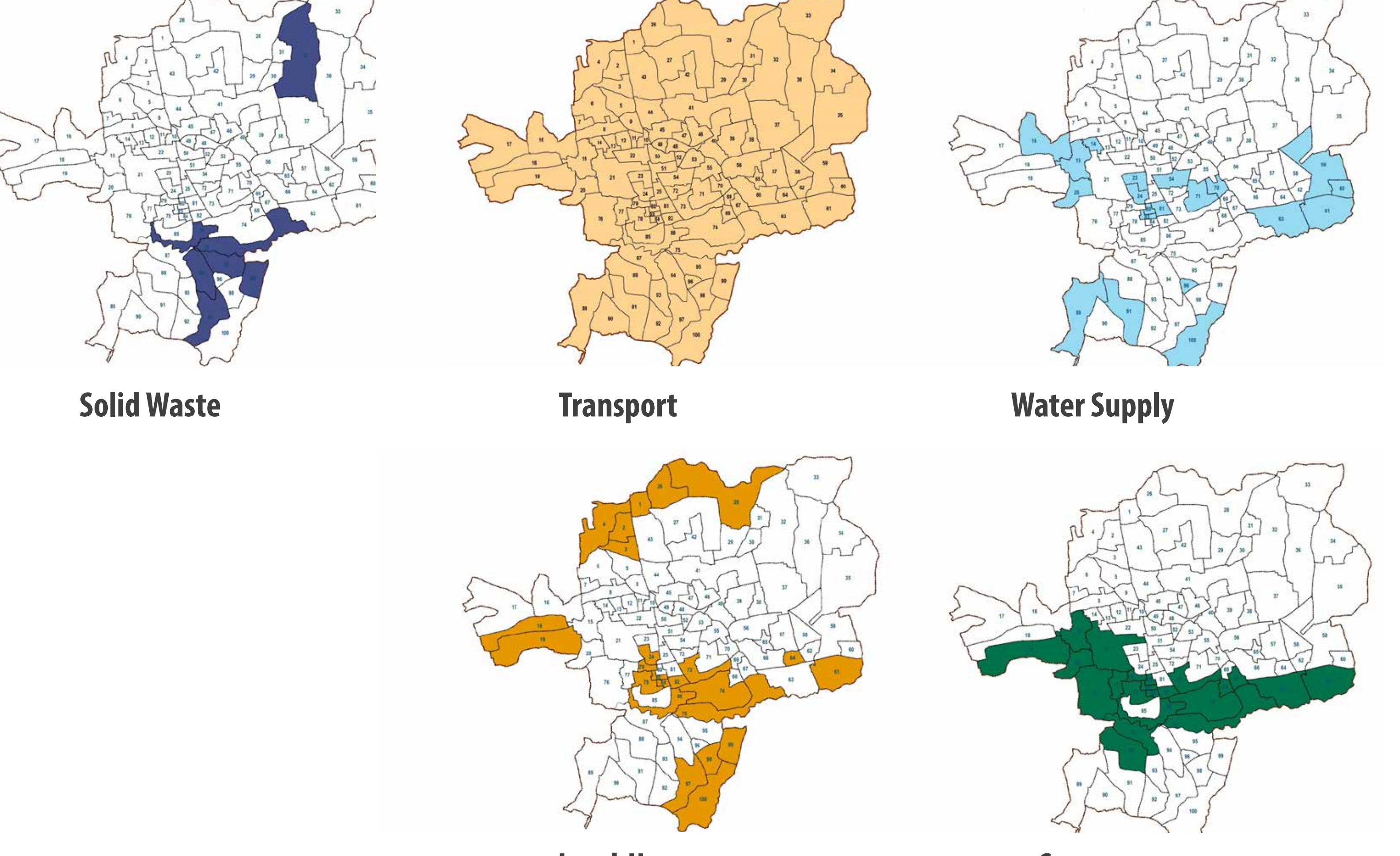
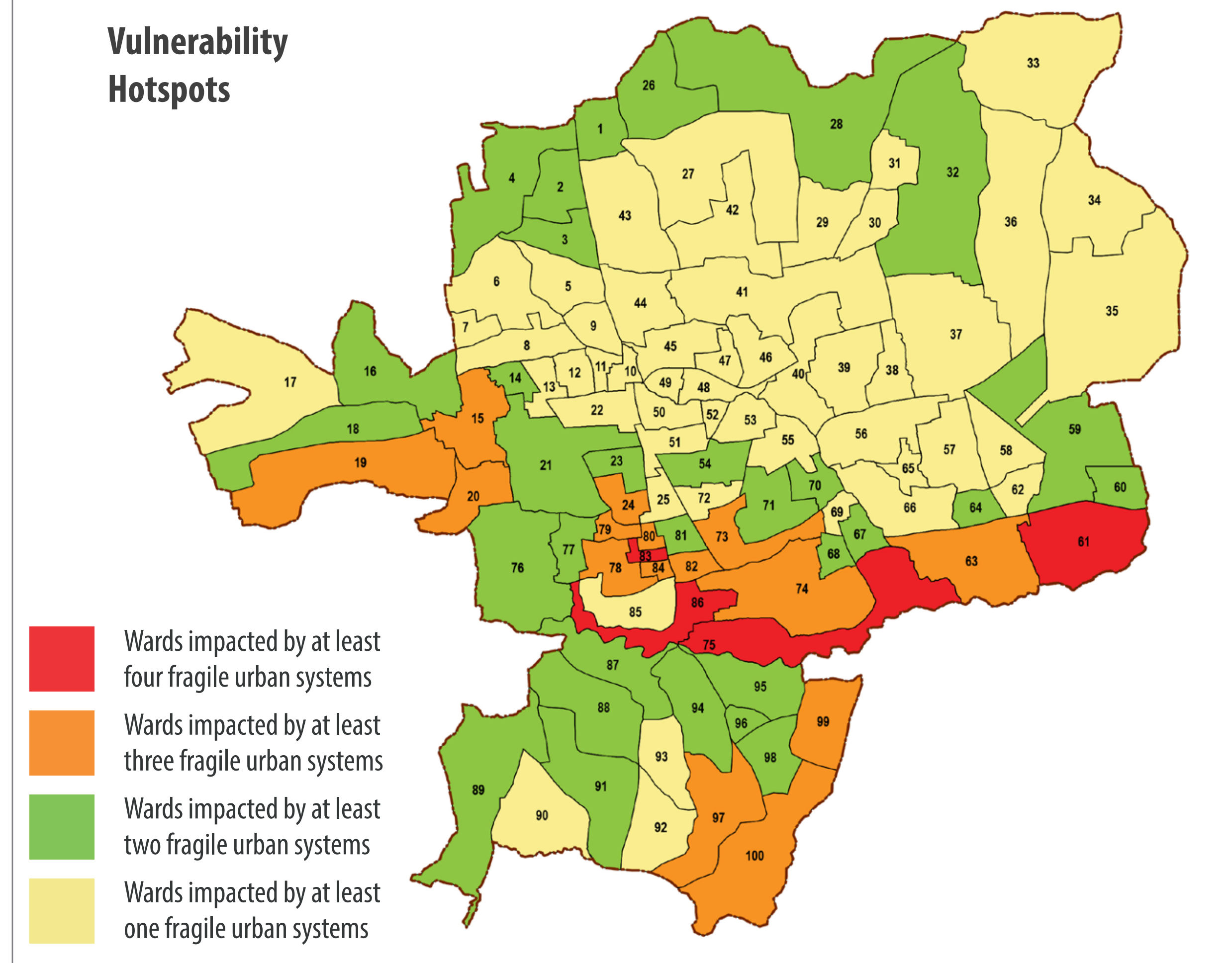
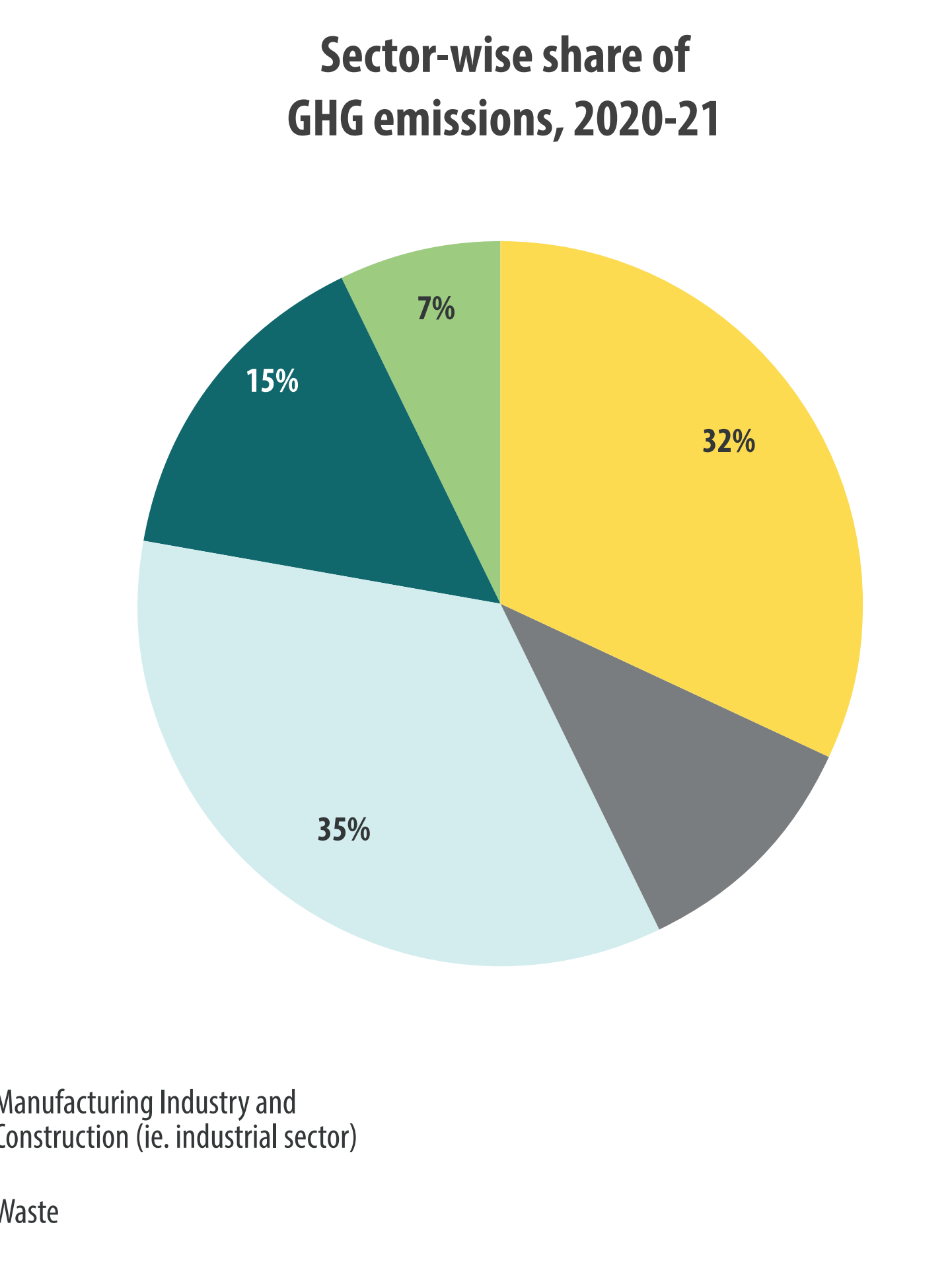
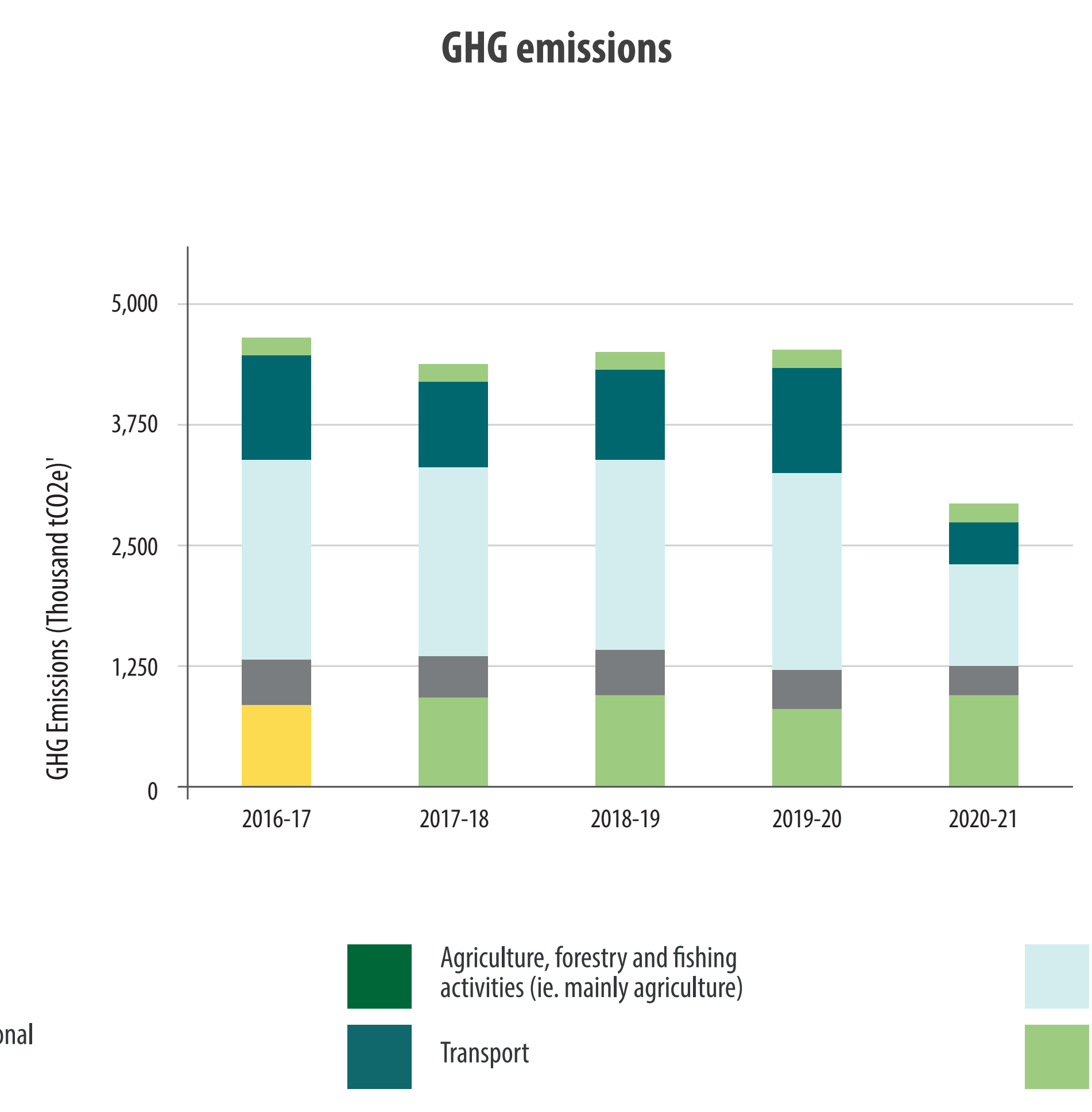
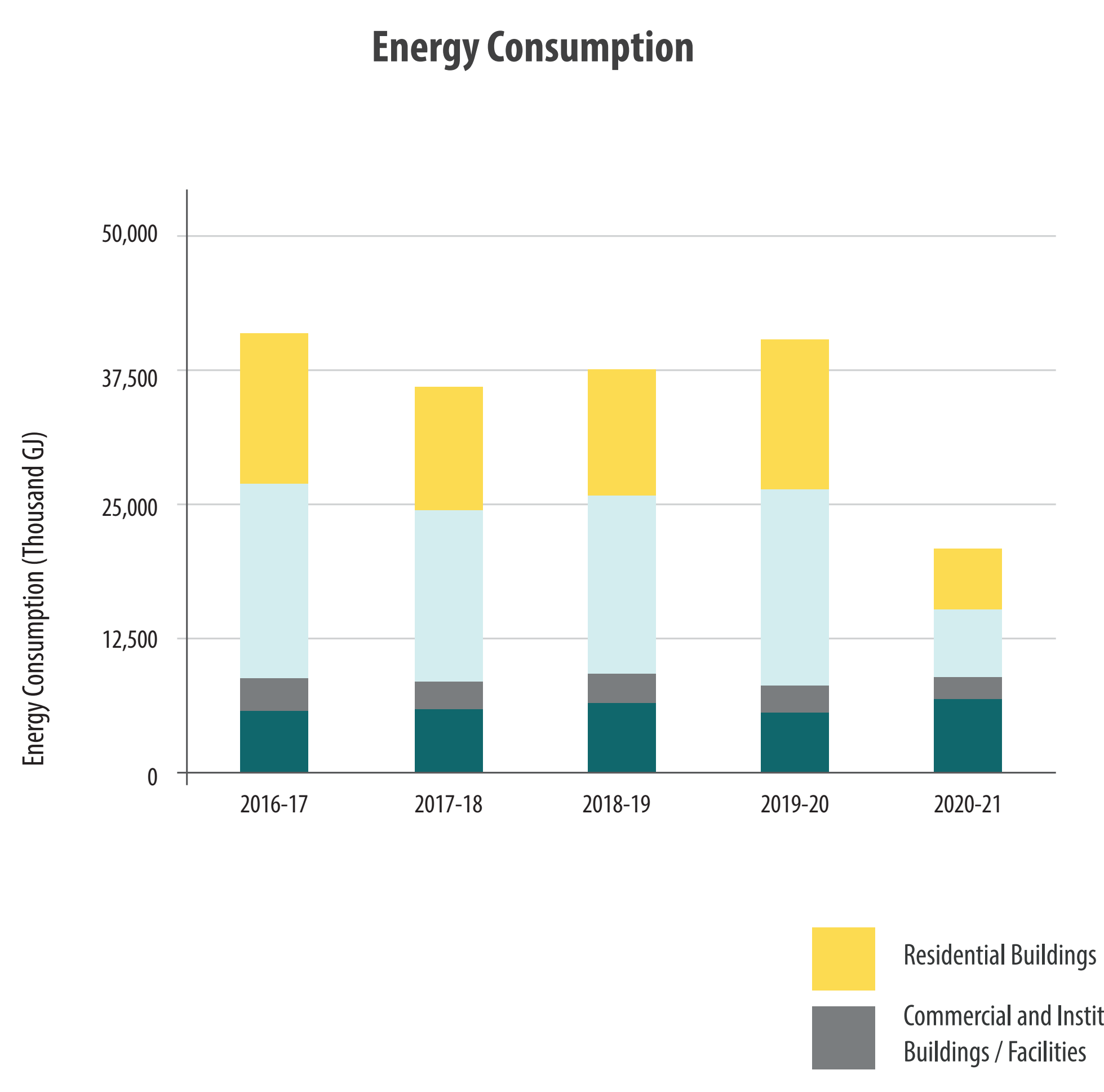
<p>Area 257.04 sq.km.</p>	<p>Population 1.89 Million</p>	<p>Population Density (2021) 7,339 persons/ sq.km</p>	<p>Household Size (2021) 4.37</p>	<p>Zones 5 (South, North, East, Central, West)</p>
<p>Total Household 4,31,547</p>	<p>Climatic Condition Hot & Dry</p>	<p>Wards 100 (20 Wards in each zone)</p>	<p>Major Economic Activity Trade, Medical, IT, Commerce and Industries (foundry, metal-based, and machine tools)</p>	



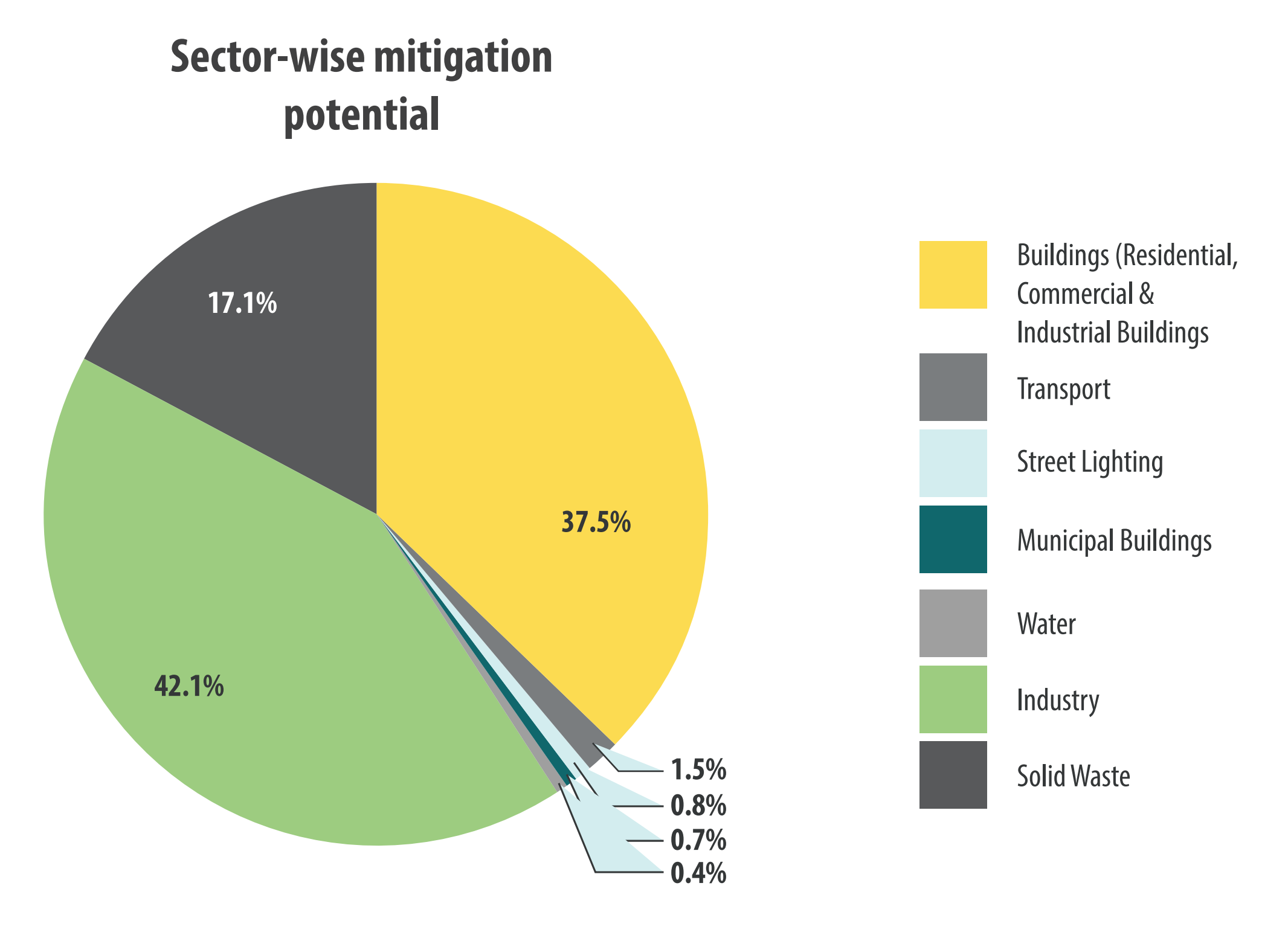
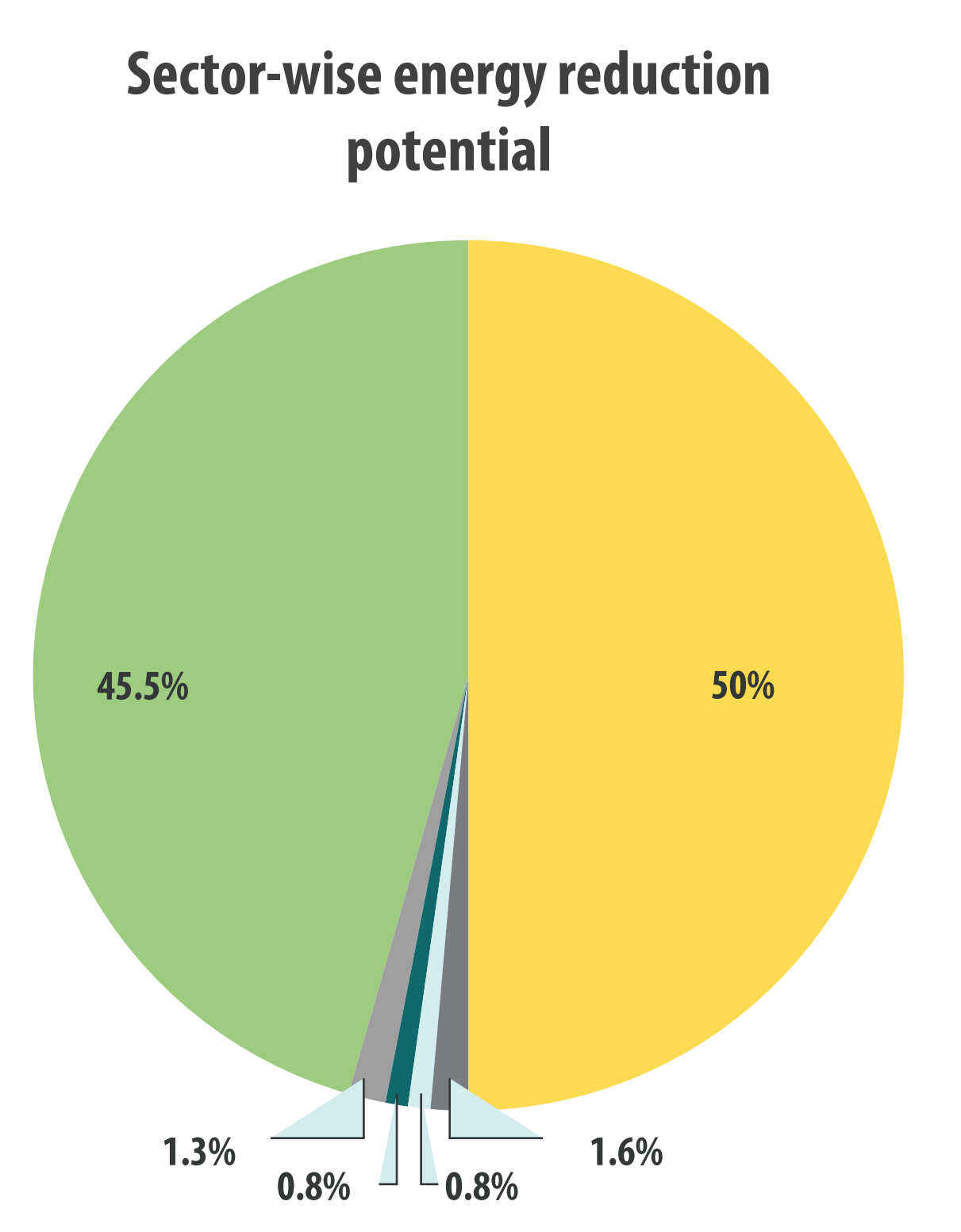
Climate Projections
Coimbatore will see an increase in average maximum temperature by 3.3°C; increase in average minimum temperature by 3.4°C by the end of the century and increase in rainfall upto 0.5% by 2050, with increasing frequency of short duration high intensity rainfall.

Energy Consumption & GHG Emissions

Vulnerability & Risk Assessment



Climate Resilient City Action Plan



Proposed Climate Resilient Interventions in the Action Plan

Buildings (Residential, Municipal Commercial and Industrial)

Example Resilience Interventions

- Solar PV systems
- Energy Efficient (EE) fixtures (LED lamps, EE fans etc, power factor correction and others)
- Declare and maintain reserved sites as Urban Green Spaces
- Have proper policy to lay the utilities on the road sides on one side so that the other side could be used for tree planting

Resilience Impact
Reduction in urban heat island effect, air quality and micro climate improvement, positive impact on health

Total Mitigation Potential
522,700 tCO₂e (38% of total reduction potential)

Solid Waste

Example Resilience Interventions

- 4 Biomethanation plants of total 200 TPD
- Waste incineration facility of 215 TPD
- Establish zone wise collection and processing centers
- Encourage community driven private start ups to manage solid waste in the city
- Develop and implement user charges

Resilience Impact
Improvement in air quality, better health and socio-economic benefits to over 40% of city population

Total Mitigation Potential
233,600 tCO₂e (17% of sector total)

Water

Example Resilience Interventions

- Reduction in Non Revenue Water (NRW)
- Analysis of available water sources so as to plan, e.g. Aquifer maps
- Waste water treatment plant connections and network for dual supply
- Separate uses of water with IUWM principles

Resilience Impact
Water conservation potential of 92 MLD, benefitting more than 60% city population

Total Mitigation Potential
5,000 tCO₂e (0.4% of total reduction potential)

Industry

Example Resilience Interventions

- Energy Efficient pumps
- Energy efficient industrial motors

Total Mitigation Potential
575,960 tCO₂e (42% of total reduction potential)

Resilience Impact
Enhanced energy resilience

Transport

Example Resilience Interventions

- Deployment of electric buses
- Public bike-share system

Total Mitigation Potential
20,800 tCO₂e (1.5% of total reduction potential)

Resilience Impact
Improvement in air quality and reduction in urban heat island effect

Street Lighting

Example Resilience Interventions

- Energy Efficient Street Lighting (21,000 street lights)

Total Mitigation Potential
11,000 tCO₂e (0.8% of total reduction potential)

Resilience Impact
Improvement in safety and access to public spaces

Implementing Partners

ICLEI
Local Governments for Sustainability SOUTH ASIA

south pole

econcept
Research / Consulting / Evaluation

Knowledge Partner

NIIA
National Institute of Urban Affairs