

QUEZON CITY ENHANCED LOCAL CLIMATE CHANGE ACTION PLAN 2021-2050

Executive Summary

Quezon City's Enhanced Local Climate Change Action Plan (LCCAP) 2021-2050 affirms the City's commitment to a sustainable urban future that is compatible with the objectives of the Paris Agreement, the United Nations' Sustainable Development Goals, and a green and just recovery in light of the COVID-19 pandemic. It sets out a strategic framework and roadmap to build climate resilience, pursue carbon neutrality, advance green economic development, and provide a liveable and quality community for all. By championing climate leadership, Quezon City aspires to become the leading city in advancing inclusive, ambitious, evidence-based, and transformative climate actions in the Philippines.

I. Background and Rationale

As one of the most urbanized and populous cities in the Philippines, Quezon City is well-positioned to champion climate action and deliver its socio-economic benefits to its people. The City is committed to several sustainability declarations such as the Deadline 2020 and BreatheLife campaign, among many others, and has a powerful portfolio of policies, programs, and projects that can help achieve its environmental and climate goals across different time horizons.

While Quezon City's existing LCCAP of 2017-2027 captures these commitments and aspirations, the city government recognizes the need to revisit the plan and build upon its key features in response to new challenges and priorities that require enhanced resilience and stronger political will. Therefore, this Enhanced LCCAP 2021-2050 looks at a further horizon, reconciles contemporary urban and development trends, and envisions a city that is carbon-neutral, climate-resilient, and inclusive in 2050.

The Quezon City Government is one of the recipients of the Climate Action Planning (CAP) Programme of the C40 Cities Climate Leadership Group, which aims to provide technical assistance to cities worldwide to develop ambitious, evidence-based, and inclusive climate action plans that respond to the sound of the Paris Agreement.

II. Overall Vision under the Enhanced LCCAP 2021-2050

The Enhanced LCCAP shall help Quezon City achieve its broad, overarching climate vision which is: *"We aspire to be the leading city in advancing inclusive, ambitious, and evidence-based climate actions in the Philippines, building resilience and advancing green economic development while providing a livable and quality community for all."*

The Enhanced LCCAP vision above aligns with the City's vision of a "Quality Community – a progressive and peaceful, clean and orderly place, conducive and hospitable to living, employment, and business", set out in its Ecological Profile 2018 Comprehensive Development Plan 2017-2020.

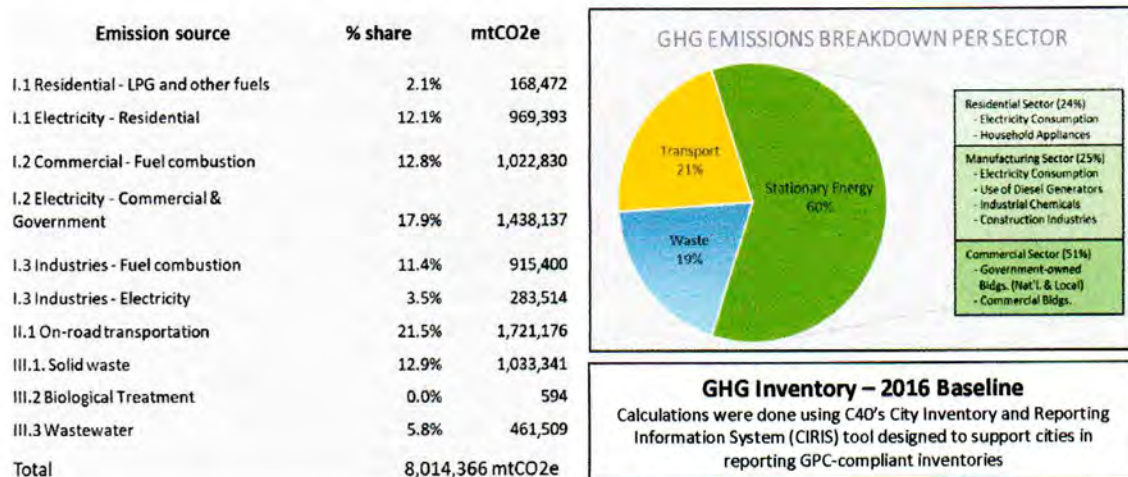
The *climate change mitigation goal* is to reduce GHG emissions by 30% by 2030 compared to the projected BAU scenario, equivalent to 3.6 million MtCO_{2e} reduction by 2030, and commit to pursue net-zero emissions by 2050

The *climate change adaptation goal* underlines the need for progressive action to build on and strengthen the resilience of its ecosystems and communities against risks and threats from the changing climate.

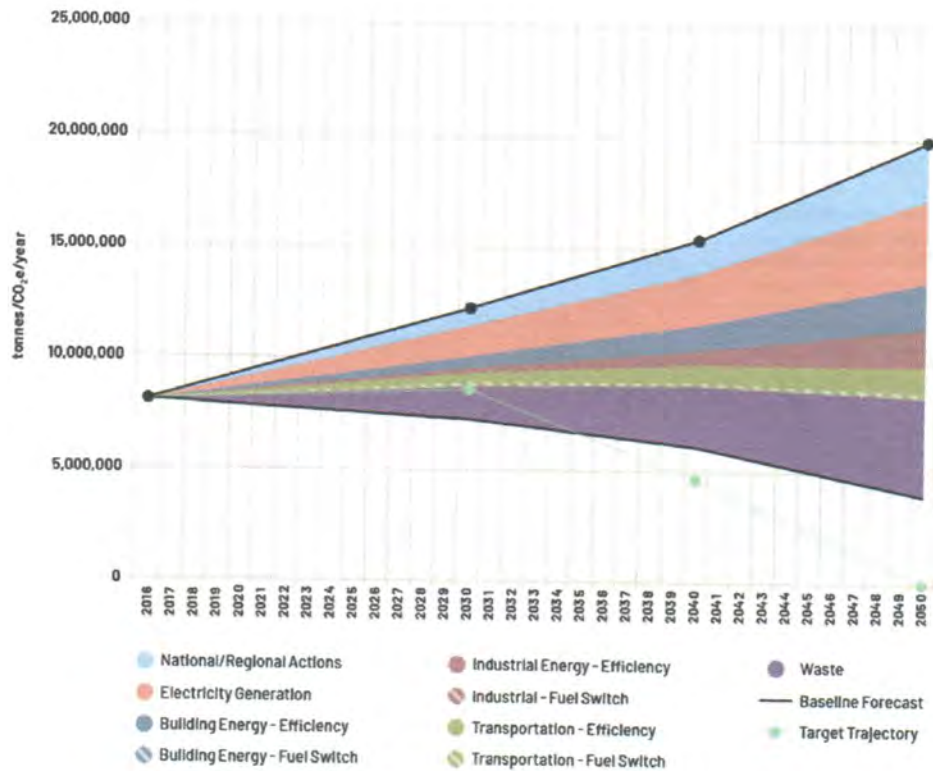
III. Climate Change Mitigation

A city-wide Greenhouse Gas (GHG) Inventory was conducted with 2016 as baseline which covers stationary energy, transportation, and waste sectors following the Global Protocol for Community-scale Greenhouse Gas Emission Inventories (GPC). The calculations were done using C40's City Inventory and Reporting Information System (CIRIS) tool, designed to support cities in reporting GPC-compliant inventories.

Results showed that the City emitted a total 8,014,366 metric tons of carbon emissions with 60% of the emissions coming from stationary energy, such as electricity and fuel, 21% from transport and 19% from waste.



To outline a pathway that will guide Quezon City to meet its emission reduction goals, GHG emissions scenario modeling from 2016 to 2030 was developed. Under the ambitious scenario, an interim carbon emission reduction of 30% compared with the BAU scenario should be achieved by 2030. This translates to 3.6 million MtCO_{2e} reduction by 2030.

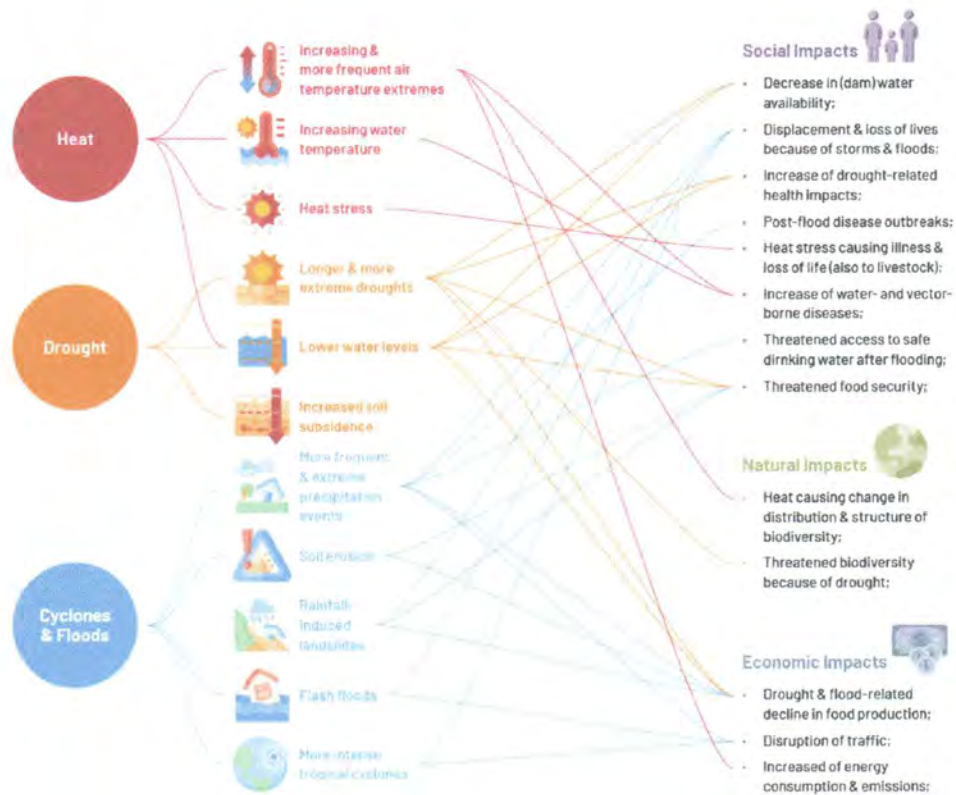


To reach its emissions reduction targets, the following priority climate change mitigation strategies were identified:

1. Striving Towards a Circular Economy, prioritizing Organic, Paper and Plastic Waste
2. Green, Energy-Efficient, and Resilient Buildings and Establishments through the Green Building Code
3. Secure Clean and Affordable Renewable Energy Access by Solarizing Government-Owned Buildings
4. Mainstreaming Energy Efficiency and Conservation in Government-Owned Facilities
5. Active Transport through Walking and Cycling
6. Clean and Efficient Local Bus Rapid Transit System and Government-Owned Vehicles Towards Improved Air Quality

IV. Climate Change Adaptation

The Enhanced LCCAP performed a qualitative assessment of the climate impacts experienced by the City in the following areas: (i) natural (ecological and environmental stability, water sufficiency), (ii) social (human security, knowledge and capacity development), and (iii) economic (sustainable energy, infrastructure, and transport, food, and industries and services). The figure below summarizes the key climate risks identified in Quezon City (i.e., heat, cyclones and floods, and drought) and their impacts on these three overarching sectors.



To address these climate hazards, the following priority climate change adaptation strategies were identified:

1. Promotion of Urban Farming and Localized Food Production
2. Increase Water Security Through Robust Demand Side Management (e.g. Rainwater Harvesting)
3. Promotion of Nature-Based Solutions to Flood Mitigation Measures (e.g. Water Retention Basins)
4. Promotion of Nature-Based Solutions to Reduce Heat and Drought Pressures through the Green Corridor Network and Urban Biodiversity Plan
5. Build Safe and Resilient Housing and Public Infrastructure for the Most Vulnerable
6. Mixed Use Zones for Improved Accessibility of Services to Communities

Approved:

HON. MA. JOSEFINA G. BELMONTE
City Mayor

Date: July 13, 2021