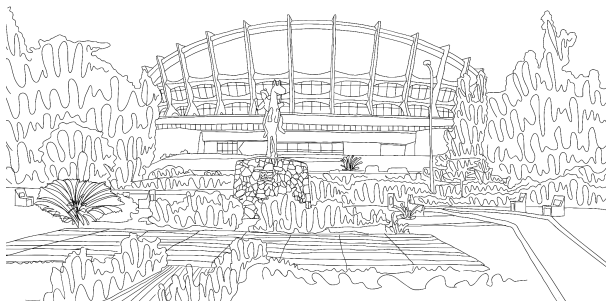


Lagos, Nigeria		
Population	23.8 million	
Size	3,701 km ²	
GHG Profile	24,308,565 tCO ₂ e total 1.12 tCO ₂ e per capita in 2021	
High-emission sectors	Energy & Buildings (49%) Waste (31%) Transport (20%)	

From Planning to Implementation

With energy and waste contributing over 80% of emissions, Lagos faces mounting pressure to expand clean energy access and manage its growing waste crisis. Electricity demand is projected to more than double by 2050, while organic waste makes up over 56% of daily landfill disposal, straining infrastructure. The **Urban Climate Action Programme – Climate Action Implementation (UCAP CAI)** is **strengthening governance, mainstreaming climate finance, and driving scalable models** for distributed **solar and waste-to-energy solutions**, ensuring alignment with national and city priorities.



Energy & Buildings

Bringing Solar Power to Homes and Businesses in Lagos

Develops scalable solar energy solutions through business model innovation and public-private partnerships to expand clean energy access for SMEs

- **Comprehensive Energy Audit conducted**, providing targeted recommendations for business and financial models to improve energy access in key sectors.
- **Rent-to-own solar model validated by stakeholders**, enabling a financially viable, scalable solution to increase SME access to clean energy.
- **Investor outreach initiated**, building momentum for solar PV deployment through collaboration with the Lagos State Employment Trust Fund and other partners.



Waste Management

Scaling Organic Waste Solutions for Energy, Compost, and Farmers in Lagos

Demonstrates a replicable model for waste-to-energy and composting through pilot projects, institutional engagement, and community-based training.

- **Anaerobic digester demonstration launched at Ikosi-Ketu Market - the first city-owned waste-to-energy pilot**, providing lighting for trader safety, borehole for water access, and planned refrigeration to cut post-harvest losses.
- **Farmer's Summit trained 80+ farmers representing all of the informal farms in Lagos**, showcasing compost from market waste as alternative to synthetic fertilisers, securing farmer buy-in and boosting circular economy practices.
- **Local buy-in driven by market trader stakeholder engagement**. Behavioural assessments informed targeted interventions, improving market waste practices and influencing broader waste management behaviours.



Climate Mainstreaming

Integration of climate action into policies and governance structures

Embeds climate governance and finance readiness across state and local government, while activating youth-led awareness and reporting systems.

- **Mainstreaming Strategy and Action Plan launched at the Lagos Climate Change Summit**, solidifying political ownership and providing a clear framework for cross-government action.
- **Lagos Climate Finance Plan co-developed with KPMG**, initiating project pipelines and aligning CAP priorities with city budgets, processes and external funding opportunities.
- **GHG inventory institutionalised at local government level**, with new data focal points and training enabling routine climate reporting.

Lagos's Organic Waste Cultivates Healthier Crops and a Cleaner City

Lagos, Nigeria's economic hub, is set to grow by nearly 3.5% in the next decade, intensifying challenges in developing a sustainable waste management system to improve public health and cut methane emissions. The **biogas project at Ikosi fruit market** is positioned to demonstrate the viability of **waste-to-energy models**, while community-based initiatives, like the organic waste composting programme and stakeholder engagement are beginning to show results. Under UCAP CAI, a Lagos Farmers Forum trained **65 farmers** in producing and applying compost manure to boost crop yields. Farmers were convinced that with the proper production and application of organic manure, optimum crop production is guaranteed. Building on the success, **the next phase will expand the initiative to reach more farmers across Lagos!**



Figure 1: Biodigester installed at Ikosi fruit market in Lagos

Diverting 0.5 tonnes of organic waste from dumpsites to biogas and 20.5 tonnes of organic waste from landfill to compost per day could*:

Avoid **9,000 CO₂eq emissions** per year

Produce **30 kWh of electricity** per day

Support **24 jobs**

Supported by UK government funding (2022–2025), the Urban Climate Action Programme – Climate Action Implementation (UCAP CAI) accelerates progress against the delivery of Climate Action Plans (CAPs) in 15 Global South cities, in line with the Paris Agreement's 1.5°C target.

UCAP CAI Cities: Accra - Addis Ababa - Dar Es Salaam - Johannesburg - **Lagos** - Nairobi - Tshwane - Bogota - Guadalajara - Lima - Medellin - Mexico City - Jakarta - Kuala Lumpur - Quezon City

Last updated: 10/06/2025

For more information, contact osaracho@c40.org, and visit our webpage [here!](#)



Climate Action
Implementation

