

**C40**  
CITIES

## **Supporting South African Cities To Deliver An Energy Secure Future:**

Accelerating the direct sourcing of renewables in SA C40  
Cities





# C40 Cities

- C40 Cities is a network of nearly 100 mayors of the world's leading cities
- Mayors of C40 cities are committed to using a science-based and people-focused approach
- Mayors are working alongside a broad coalition of representatives from labour, business, youth and civil society to go further and faster than ever before.
- Cities in the C40 network earn their membership through action.



# South African C40 Cities

- Five South African Cities have joined C40 Cities (Johannesburg, Ekurhuleni, Tshwane, eThekweni and Cape Town)
- Since 2017 C40 has worked with the cities to develop evidence-based Climate Action Plans (CAPs) to meet emissions reduction targets aligned with the 1.5C goal of the Paris Agreement

# South African C40 Cities CAPs

All five of SA C40 cities' CAPs provide valuable data on city specific electricity demand and consumption patterns and the sector's overall share of or contribution to carbon emissions in each city.

<b>Planning Documents</b>	<b>Outcomes</b>
Cities Pathways - GHG emission inventories	Four of the five C40 South African cities have now developed new and updated GHG emission inventories (Ekurhuleni is in review)
Cities Urban Climate Risk Assessments	Three of the five C40 South African cities have developed an urban climate risk assessment. Johannesburg has a rapid risk assessment
Climate Action Plan compatible with the Paris Agreement	Four of the five C40 South African cities have now published their CAPs (Ekurhuleni is partially complete)

	<b>2030 Targets</b>	<b>2050 targets</b>	<b>Reference</b>
<b>Cape Town</b>	Work towards raising the total share of zero carbon electricity supply in the City of Cape Town to between <b>24% and 48%</b> .	Move as quickly as prices and opportunities allow towards <b>100% clean electricity supply by 2050</b> .	City of Cape Town Climate Change Action Plan The 2050 Energy Strategy for the City of Cape Town
<b>Johannesburg</b>	<b>35%</b> of electricity consumed is generated from renewable energy sources.  The Johannesburg Green Building Policy targets resource efficiency and high energy performance to ensure all new buildings and major refurbishments are net zero carbon by 2030.	By 2050, all residents have access to safe, affordable and net-zero emissions energy.	City of Johannesburg Climate Action Plan 2021 Energy Plan 2017 (currently being updated) <b>C40 NET ZERO CARBON BUILDINGS ACCELERATOR</b> How cities are leading the transition to decarbonised buildings!
<b>Ekurhuleni</b>	<b>25%</b> Reduction in fossil fuel energy use.  Ekurhuleni Power Partners initiative has over 40 independent power producers (IPPs) that have signed agreements with the city to provide renewable energy. Through this programme, the city aims to develop 100 MW renewable energy capacity by 2030.		City of Ekurhuleni Green City Action Plan. <b>C40 CLEAN AIR ACCELERATOR</b> How cities are cleaning the air we breathe.
<b>Tshwane</b>	<b>10% or 200 MW</b> of the City's electricity is sourced from renewable energy.  In 2024, the city aims to identify 1,000 MW of renewable and cleaner energy projects from IPPs, which the city can then contract to power the local grid.  The City is currently at the final stages of approval for the Tshwane Green Building Development and Net Zero Carbon Building by-law, which will accelerate the transition to net zero carbon for new buildings and major refurbishments by 2030.	A minimum of <b>80%</b> of the City's electricity is sourced from renewable energy.	City of Tshwane Climate Action Plan <b>C40 RENEWABLE ENERGY ACCELERATOR</b> How cities are accelerating their energy transition <b>C40 NET ZERO CARBON BUILDINGS ACCELERATOR</b> How cities are leading the transition to decarbonised buildings
<b>eThekweni</b>	Aims for <b>40%</b> of Durban's electricity consumption to be met by renewables by 2030.  In 2021, eThekweni Municipality adopted a Green Building Policy that aims to achieve net zero carbon new buildings by 2030 in the city.	<b>100% Reduction in emissions from electricity.</b>	Durban Climate Action Plan 2019 eThekweni Green Building Incentive Policy eThekweni Integrated Resource Plan <b>C40 NET ZERO CARBON BUILDINGS ACCELERATOR</b> How cities are leading the transition to decarbonised buildings

- The 5 SA cities represent a large share of national energy use
- The Cities' CAPS express their ambitions to to reduce emissions and increase renewable energy by 10-40% in 2030 and as much as 100% by 2050.

# Supporting South African Cities To Deliver An Energy Secure Future

- SA Cities are experiencing ongoing energy security challenges due to generation capacity constraints by ailing state-owned utility (ESKOM)
- Recent amendments to national electricity regulations present an opportunity for SA cities to directly address and contribute to energy security concerns and the associated socio-economic and environmental issues
  - Municipalities are enabled to procure or buy new generation capacity i.e. buy from IPPs or own build.
- Municipalities are considering procuring from IPPs
- A few municipalities have successfully procured from IPPs



# Project Overview

- **Objective:**
  - accelerate direct sourcing of renewable energy capacity from independent power producers (IPP)
  - to transform electricity systems in SA
  - help municipalities meet their ambitious climate and renewable targets while saving money
- **Target Cities:** City of Cape Town, City of Ekurhuleni, City of eThekweni, City of Johannesburg and City of Tshwane
- **Funder:** Climateworks Foundation
- **Duration:** April 2023 – March 2025

# Project Goals





# Activities

Peer-to-peer  
exchanges,  
webinars  
workshops

Development  
of knowledge  
products

Light-touch  
technical  
assistance

# Thank You

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ABIDJAN – ACCRA – ADDIS ABABA – CAPE TOWN – DAKAR – DAR ES SALAAM – DURBAN (ETHEKWINI) EKURHULENI –  
FREETOWN – JOHANNESBURG – LAGOS – NAIROBI – TSHWANE





**Thank you**

