

CAPE TOWN ENERGY STORAGE DEVELOPMENT PLAN



How is Cape Town transforming the energy system? City of Cape TownDraft for Public Participation June 2023Executive SummaryThe energy system, globally and locally, is rapidly transforming due to the impacts of technology change, regulatory change, and climate change. These changes



What is Cape Town's energy strategy? CITY OF CAPE TOWNFOREWORDFROM THE EXECUTIVE MAYORWith this Energy Strategy, Cape Town is charting the long-term path to 2050, as we make the great transition from centralised supply of unreliable, costly and fossil fuel-based Eskom energy, to an increasingly decentralised supply of reliable, cost-effective, carbon



Where can I find information about Cape Town's energy system? energy system,in response to current City mandates and data availability. The City of Cape Town has a wealth of energy data that is captured in the State of Energy &Carbon Report (2021) and available through the City's Open Data Portal. For a more in-depth description of the current



Will Cape Town release an RFP for 100MW battery energy storage? The City of Cape Town will,in the third quarter of this year,release an RFP for 100MW of battery energy storage systems in an effort to bolster energy security.



What is Cape Town's economic development strategy? The City's Economic Development Strategy cites lower carbon city development as a key economic driver,and recognises that in order for Cape Town to be economically competitive it needs to be able to offer investors resource-efficient and lower carbon opportunities.

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How does the city of Cape Town deal with the energy crisis? ic resources are used in such a way so as to achieve maximum public benefit. However, the City of Cape Town cannot operate in isolation to address the current energy crisis and navigate the energy transition, but rather operates within a system of energy actors. Working with a network of partners in government and the private sector is critical fo



energy sources (small-scale embedded generation (SSEG)) grid tied installations (MegaVolt Ampere) New 5MVA 10MVA 10MVA 5MVA 5MVA 3. B Load-shedding level 8 CITY OF CAPE TOWN INTEGRATED DEVELOPMENT PLAN 9 KEY PERFORMANCE INDICATOR BASELINE TARGET 2020/21 2022/23 2023/24 2024/25 2025/26 2026/27 4. B Compliance with drinking ???



Clean Energy Africa has collaborated with the Industrial Development Corporation, Waste-Mart and Afrox to complete Africa's first waste-to-energy plant; the New Horizons Waste-to-Energy facility in Cape Town. Situated in Athlone, Cape Town, the New Horizons Waste-to-Energy plant will process, on average, 500 tonnes of municipal solid waste



City of Cape Town Bioregional Plan Energy, Environmental & Spatial Planning | Environmental Resource Management Department 3 Executive Summary The Cape Town Bioregional Plan was adopted as City Policy in July 2015 (Annexure 3). It comprises a biodiversity profile for the bioregion, the Biodiversity Network and management guidelines. The



Table 9 RE Installed and Under Development in Cape Town (2022) 31 Table 10 CAP Actions that are Driving RE Generation Capacity 31 Table 11 Key Regulatory, Operational and performance indicators 33 Plan and the Cape Town State of Energy & ???

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In 2015, the Cape Town Energy 2040 Vision, developed through an extensive process of energy modelling and stakeholder engagement, set ambitious city-wide targets for increasing energy access, improving energy efficiency and reducing carbon emissions. Cape Town has woven them into its Integrated Development Plan for the period 2017-2022.



An optimum energy future for Cape Town 12 Action plan objectives, programmes and projects 16 Energy report Integrated Development plan ??? Strategic focus area Energy for a sustainable city Energy and and a pumped-storage station (400 MW). Cape Town's electricity demand is 2 400 MW, 6% of a total installed



Our Shared Energy Future: The 2050 Energy Strategy for the City of Cape Town ??? Executive Summary Draft for Public Participation ??? June 2023 Page 3 of 9 challenges that the City of Cape Town needs to address in order to achieve "End load-shedding in Cape Town over time" (IDP objective 3) and "Well-managed and modernised infrastructure to



Cape Town Mayor Geordin Hill-Lewis has announced that the City will design, build, and operate a R1,2 billion solar PV plant with battery storage capable of providing up to a full stage of load-shedding protection. This is one of two projects awarded support from the C40 Cities Finance Facility (CFF), which offers cities technical and financial assistance in support ???

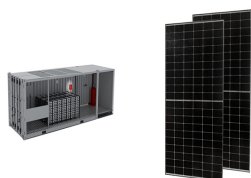


CITY OF CAPE TOWN SUPPLY AREA ???GEOGRAPHIC LOCATION City of Cape Town Currently purchases 99%+ of its electricity from Eskom for onward sale to consumers in the City's grid. 44 Energy Intake points 10 TWh consumption per year (10 x 1000 000 MWh) 1650 MW combined maximum demand Eskom supplies approximately 25% of the metro's ???

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short-term energy purchases from cross-border utilities. The first projects are expected to provide power by end 2024. THE SUCCESSES OF THE ENERGY ACTION PLAN 6 MONTHS IN SUMMARY First project from the risk mitigation programme connects to the grid at Kenhardt in the Northern Cape, to provide 150 MW of dispatchable power. Additional 3.4 GW of



The energy and climate plan of South Africa's Cape Town city has a number of goals, of which one is to achieve 10% renewable and cleaner energy supply by 2020. In addition, the city aims to meet growth in electricity demand with cleaner renewable power. The plan's other objectives include: Building a more compact, resource-efficient city.



The four large South African metros (Cape Town, Tshwane, Johannesburg and eThekweni) have committed to C40's Deadline 2020 programme. This programme entails developing an ambitious climate action plan by 2020 that achieves the adaptation and mitigation goals of the Paris Agreement. Such a plan requires Cape Town to considerably extend its



Energy Scenarios for Cape Town Report ??? Final August 2011 1 ENERGY SCENARIOS FOR CAPE TOWN EXPLORING THE IMPLICATIONS OF DIFFERENT ENERGY FUTURES FOR THE CITY UP TO 2050 . AUGUST 2011 . FINAL DOCUMENT AS LINKED WITH OEF 2.8 MODEL. Part of the DANIDA-funded City of Cape Town Climate Change Think Tank . research initiative ???



3 FRAMING THE CITY OF CAPE TOWN CLIMATE ACTION PLAN 22 3.1 Cape Town's climate change action planning process 22 3.2 Scope of this Climate Change Action Plan 24 3.3 Challenges for implementation 25 4 ACHIEVING A VISION OF A CLIMATE-RESILIENT, RESOURCE-EFFICIENT AND CARBON-NEUTRAL CITY 27 4.1 Cape Town's vision 27

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consequences for Cape Town's urban form and for the people who live and work here. The City of Cape Town recognises that resource efficiency is critical to economic growth and increases a city's competitiveness and resilience. This is reflected in the City's Energy2040 goal2, which includes a 37% reduction in carbon



development 128 job years created 8.3 GWh of electricity saved R14,8 million into residents gas, wind, storage . ENERGY SAVINGS FROM EFFICIENCY & REDUCED ENERGY COSTS mean households have extra CAPE TOWN ENERGY DEMAND BY SECTOR OPTIMUM ENERGY FUTURE rt ustrial n rt 2040 350 mil 300 mil 250 mil 200 mil



Cape Town is one of several cities worldwide experiencing water scarcity. Dams were down to just 9.8% of usable storage capacity. To reduce the risk of this re-occurring, we have to face the reality of less National Development Plan (NPC) 2012 Sustainable Development Goals (UN) 2012 National Infrastructure



We develop new projects across Africa from our offices in Cape Town. This is also our engineering hub and our 24/7 operated global Control & Monitoring centre is located here. Scatec reached financial close for a battery energy storage project totalling 103 MW/ 412 MWh by the Department of Mineral Resources and Energy in South Africa under



The Cape Town State of Energy and Carbon 2021 report is a collaborative product of the City of Cape Town's Sustainable Energy Markets Department in the Energy and Climate Change Directorate, other City departments, and Sustainable Energy Africa. The City of Cape Town thanks the following stakeholders for their respective contributions:

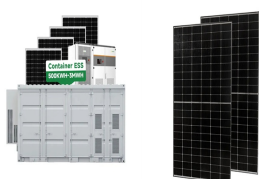
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The City of Cape Town will invest R1.2 billion into a solar PV and battery storage project, which should produce 60MW of renewable energy ??? potentially shielding the city from one stage of load



Cape Town's innovative energy initiatives have gained global recognition, including a recent visit by the World Bank's Vice President for Eastern and Southern Africa to the Steenbras Hydro Pumped Storage Scheme. With plans to boost load-shedding protection and substantial infrastructure investment, the city is setting out on a ten-year journey to create the ???



ning a more sustainable path for Cape Town's energy development. 2. Energy use patterns in Cape Town The City of Cape Town has a population of three million people and approximately 800 000 households (CCT 2001). For the purpose of our analysis, the residential sector was divided into two main categories: medium-to-high-income households



quality of life for all citizens of the City of Cape Town. The City of Cape Town's (City's) current Integrated Development Plan (IDP) is a five-year plan (2017 to 2022), and as the strategic development plan it is reviewed annually to guide and strengthen all development planning in the municipal area for the priorities at the time.



The Energy Strategy aligns with the Integrated Development Plan (2022-2027) and other key City Cape Town's energy demand is met by a reliable and cost-effective supply of increasingly In the short to medium term, the focus is increasing the supply and storage of electricity from a range of public and private sources in response to the

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The City of Cape Town is proposing a number of amendments and new provisions to the Municipal Planning By-law (MPBL) that regulates development and land use in the city, some of which directly pertain to renewable energy infrastructure.



Cape Town 8001. Connect with us. LinkedIn Facebook. Mulilo is a renewable energy developer and Independent Power Producer (IPP) committed to leading South Africa's transition to a more sustainable future. Our commitment involves developing, owning, and operating utility scale solar, wind, and battery energy storage systems.