## ENERGY PERFORMANCE CERTIFICATES REGULATIONS AND

## MUNICIPAL ENERGY MANAGEMENT SYSTEMS

EASTERN CAPE AMEU BRANCH MEETING Thursday, 9 December 2021





## **Overview of presentation**

- New regulations for buildings -The National Energy Act 2008, Regulations for mandatory display and submission of EPCs for Buildings
- What are Energy Performance Certificates (EPCs)?
- What needs to be done to comply with the EPC regulation?
- What needs to be measured and what needs to be displayed on the EPC?
- Using EPCs to drive Municipal Energy Management Systems the example of Nelson Mandela Bay Municipality and Buffalo City
- Where to go for support and resources





Regulations for mandatory display and submission of EPCs for Buildings

- Legislation: SANS 10400 XA, SANS1544, The National Energy Act of 2008, and Regulations for the Mandatory Display and Submission of Energy Performance Certificates for Buildings
- Required to publicly display an EPC at the entrance of a building that is owned, operated or occupied by 7 December 2022
- Each certificate is valid for a period of 5 years.
- EPCs must be submitted by the relevant accounting officer to SANEDI within 3 months of the EPC being completed.
- Responsibility of Accounting Officer (public) or building owner (private)
- Fine of R5M or 6 months jail time or both III



SUSTAINABLE ENERGY

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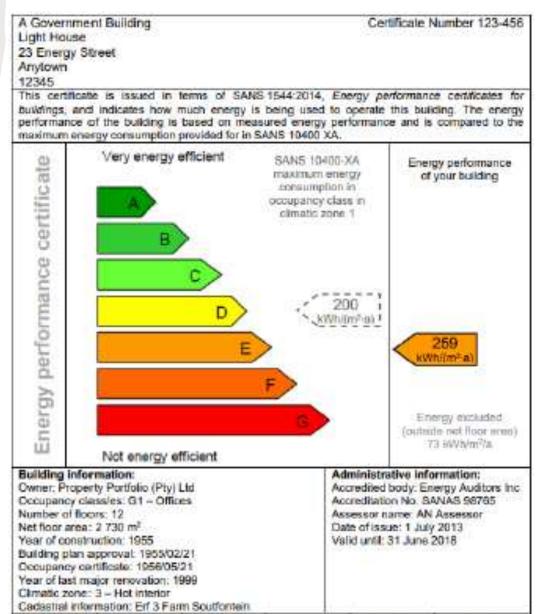
#### Building occuponcy classes requiring EPCs

Building Occupancy Class	Occupancy	Description
A1	Entertainment & public assembly	Where persons gather to eat, drink, dance or participate in other recreation.
A2	Theatrical & indoor sport	Where persons gather for the viewing of theatrical operatic, orchestral, choral, cinematographic or sport performances.
A3	Places of instruction	Where school children, students or other persons assemble for the purpose of tuition or learning.
61	Offices	Comprising offices, banks, consulting rooms and other similar usage.



## What are Energy Performance Certificates (EPCs)?

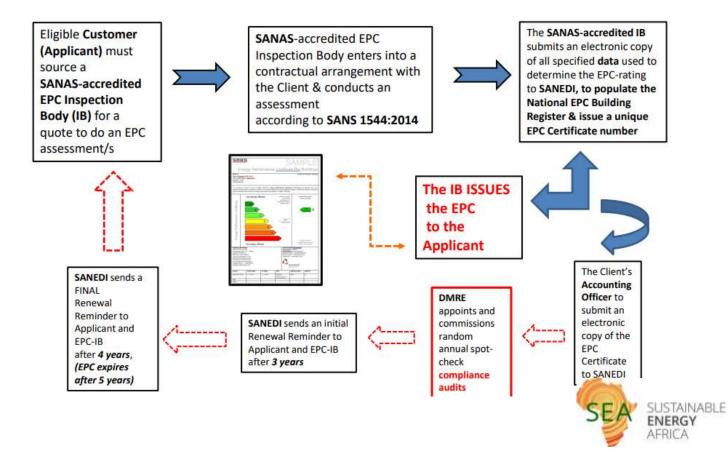
A certificate issued by an accredited body, South African National Energy Development Institute (SANEDI), in respect of a building in accordance with the South African National Standard SANS 1544: 2014 Energy performance certificates for buildings that indicates the energy performance of that building





### What needs to be done to comply with the EPC regulation?

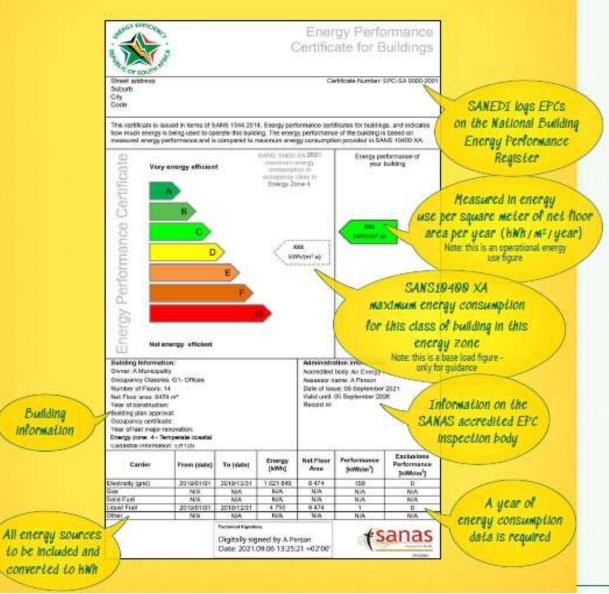
- Energy needs to be measured -(kWh/m2/pa), of the net floor area
  - All energy carriers, (not only electricity);
  - One year's energy consumption, from recorded data, energy bills or Measurements
- EPC to be done and issued by a SANAS Accredited body
- SANAS to submit EPC to SANEDI



# What needs to be measured and what needs to be displayed on the EPC?

- Unique certificate number
- Full physical address of the building
- Owner of the building
- Occupancy class (A1 etc)
- Number of floors
- Net floor area only if available
- Year of construction
- Building plan approval date
- Occupancy certificate date
- Year of last major renovation
- Energy Zone as per SANS10400-XA
- Erf no. registered on the deed
- Name of the SANAS Accredited EPC Inspection Body
- EPC Inspection Body accreditation number
- Name of EPC Technical Signatory that assessed the building
- Date of issue of the certificate
- Expiry date of the certificate

• Details on ALL the energy carrier/s, the kWh energy use for the evaluated year, net floor area and the calculated kWh per square meter. [All energy used (eg. gas, diesel etc) converted to kWh.]

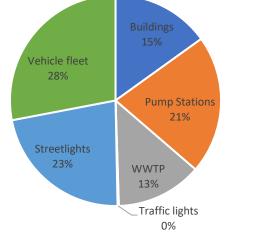


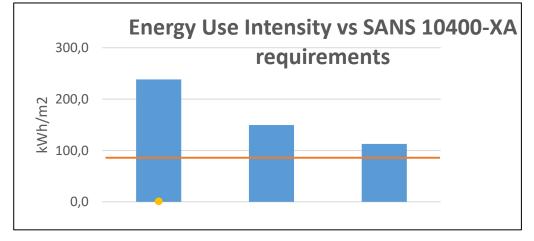


Using EPCs to drive Municipal Energy Management Systems – the example of Nelson Mandela Bay Municipality and Buffalo City

EPCs require the collection and analysis of data on buildings and their energy consumption. EPCs therefore both provide data for a municipal energy management system

INERGY







### **Organisations:**

- SA National Energy Development Institute
- Council for Scientific and Industrial Research
- Green Building Council of South Africa SA Local Government Association
- Sustainable Energy Africa



### **Resources:**

- SANEDI: <u>https://www.sanedi.org.za/Energy\_Performance\_Certifi</u> cates.html
- Smart Buildings web hub: <u>www.smartbuilding.org.za</u>
- Urban Energy Support hub: <u>www.cityenergy.org.za</u>

REQUEST FOR PROPOSALS (RFP) FOR ISSUING OF ENERGY PERFORMANCE CERTIFICATES (EPCs) FOR MUNICIPAL BUILDINGS



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