Exploring Pathways To Transform African Cities Into Low Emission And Sustainable Cities

THE CASE OF KWADUKUZA LOCAL MUNICIPALITY (SOUTH AFRICA)

Ninth Africa Carbon Forum 29 June 2017

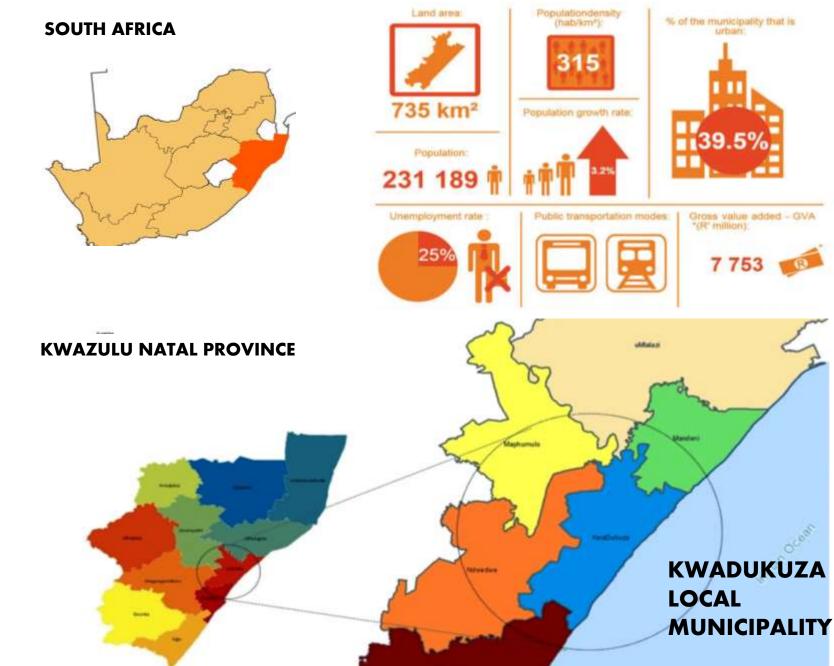


PRESENTATION OUTLINE

- 1. KWADUKUZA LOCAL MUNICIPALITY CONTEXT
- 2. LOW EMISSION PATH
- 3. LOW EMISSION STIMULUS
- 4. LOW EMISSION VISION
- 5. ENERGY PICTURE AT A GLANCE
- 6. URBAN ENERGY EMISSIONS PROFILE
- 7. ALIGNMENT OF MUNICIPAL OBJECTIVES & POLICIES
- 8. AFFIRMATION OF LOW EMISSION TRAJECTORY
- 9. CHALLENGES
- 10. LESSONS LEARNT



KWADUKUZA LOCAL MUNICIPALITY CONTEXT

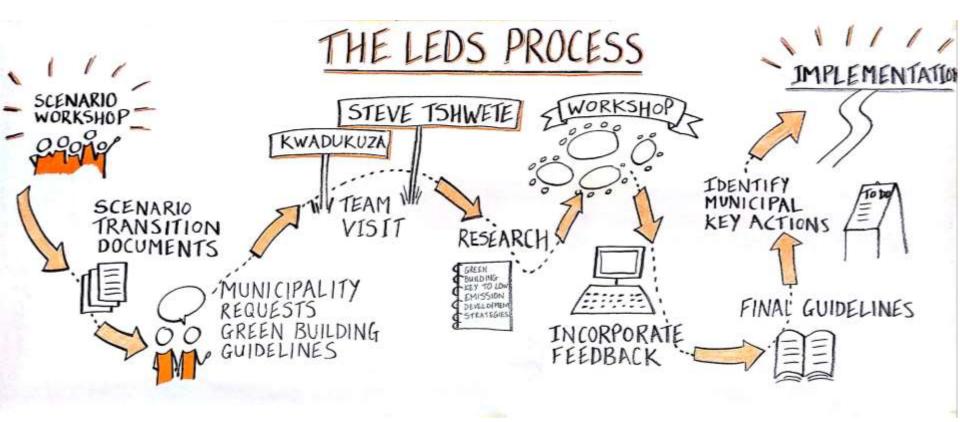


KWADUKUZA LOW EMISSION PATH

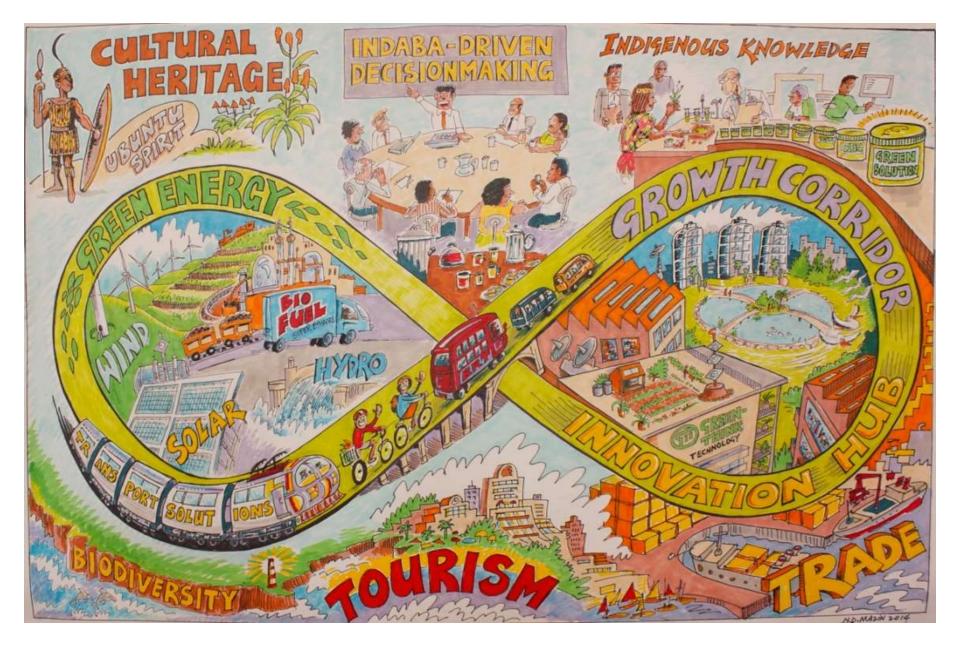
		2017 Beyond
• KWADUKUZA STRATEGIC ENVIRONMENTAL ASSESSMENT (SEA), 2008	KWADUKUZA URBAN LEDS AND LOCAL ACTION PLAN 2015-2020	• SOURCING FUNDING (INTERNAL/ EXTERNAL)
		MAINSTREAMING CLIMATE
COASTAL MANAGEMENT PLAN, 2011	KWADUKUZA GREEN BUILDINGS POLICY GUIDELINES	CHANGE WITHIN LINE FUNCTIONS
KWADUKUZA CLIMATE CHANGE RESPONSE STRATEGY, 2013		CONCEPTUALISATION AND
	KWADUKUZA	PROJECT PACKAGING
	GREENHOUSE GAS	
KWADUKUZA BIODIVERSITY OPEN SPACE MANAGEMENT PLAN, 2013	INVENTORY	
	2x SNR ENVIRO OFFICERS	ADDITIONAL SPECIALIST &
• 1X SENIOR ENVIRONMENTAL OFFICER	CLIMATE CHANGE OFFICER	MANAGEMENT CAPACITY
	TECHNICAL CHAMPION,	
	POLITICAL CHAMPION	

KWADUKUZA LOW EMISSION STIMULUS

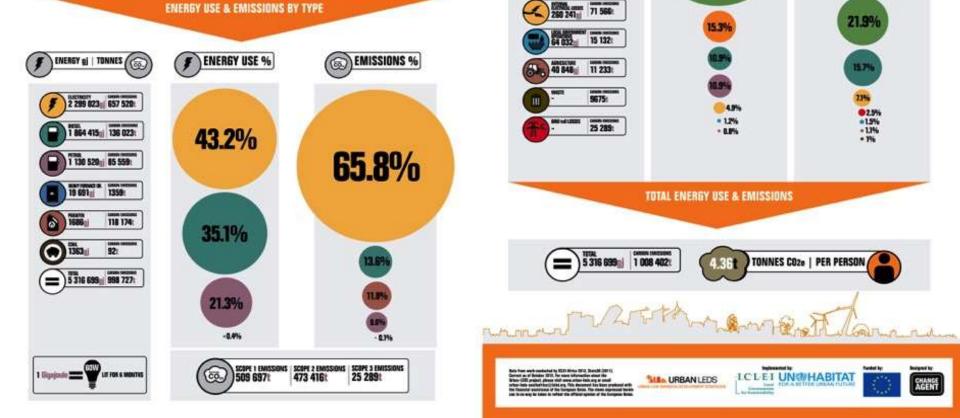
ICLEI Programme- 2013
Capacity / Technical Support



KWADUKUZA LOW EMISSION VISION



INFOGRAPHIC SHOWING URBAN ENERGY AND EMISSIONS PROFILE



ENERGY USE & EMISSIONS BY SECTOR

ENERGY USE %

56.1%

ENERGY gj | TONNES

2 582 548 220 652

813 8161 223 516

7 509 158 815:

577 705 272 523

6

EMISSIONS %

27%

22.2%

0

URBAN ENERGY PROFILE INFOGRAPHIC: KWADUKUZA LOCAL MUNICIPALITY 2012 A member of the Urban-LEBS project

GENERAL INDICATORS

231 189

36%

90%

735

3.2%

0.29%

Where is KwaDukuza?

Seath Africa

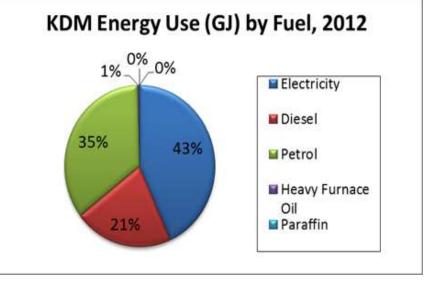
Click on the map to view in gaugle :

No. of Concession, Name

ENERGY PICTURE AT A GLANCE

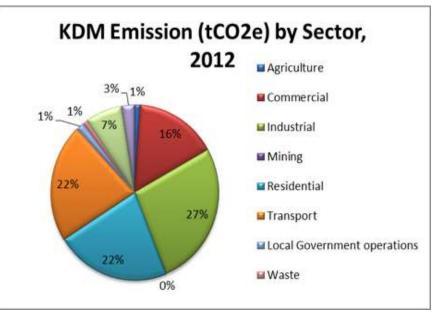
ELECTRICITY DOMINANT ENERGY TYPE USED
(43% OF TOTAL 5.3 MILLION GJ OF ENERGY
CONSUMED)
LIQUID FUELS OF DIESEL (21%) AND PETROL
(35%) BEING THE SECOND AND THIRD

DOMINANT ENERGY TYPES USED RESPECTIVELY.

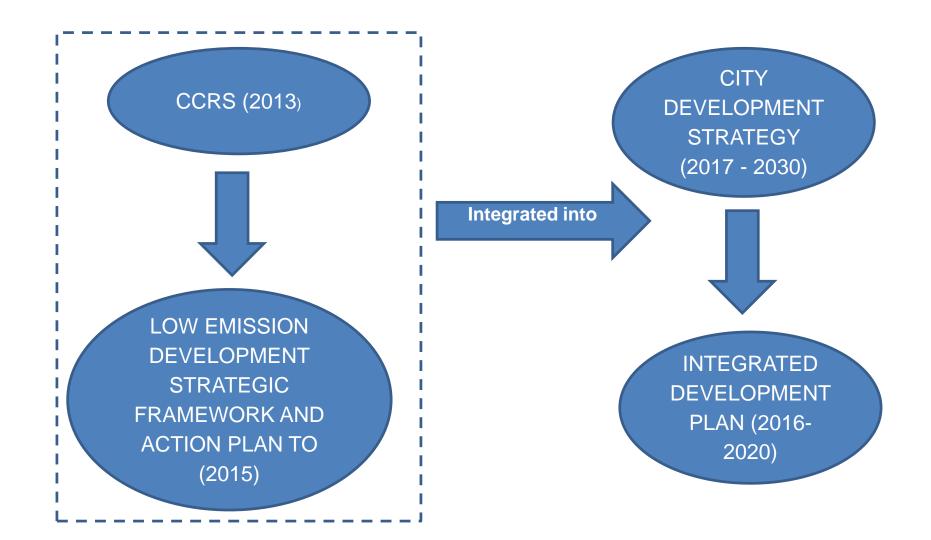


98% EMITTED BY THE COMMUNITY (I.E. INDUSTRIAL, RESIDENTIAL, TRANSPORTATION ETC. ACTIVITIES).

2% EMITTED DIRECTLY BY THE LOCAL AUTHORITY OWN OPERATIONAL ACTIVITIES



ALIGNMENT OF MUNICIPAL OBJECTIVES



AFFIRMATION OF LOW EMISSION TRAJECTORY

KDM SIGNATORY OF :

- Compact of Mayors Coalition,
- Durban Adaptation Charter (DAC) And
- Active Member of Central KZN Climate Change Compact (KZN CCC),

MEMBER OF ICLEI-LOCAL GOVERNMENT FOR SUSTAINABILITY.

DEVELOPMENT APPROVAL- CONDITIONS:

- applicable standards on energy efficiency and water conservation,
- Green Building Guidelines

IMPROVED PUBLIC-PRIVATE PARTNERSHIPS/ STAKEHOLDER ENGAGEMENT,

- INSTITUTIONALISATION OF CLIMATE CHANGE AND ENERGY EFFICIENCY POLICY, AWARENESS (ON GOING),
 - City Development Strategy scenario planning outcomes

AFFIRMATION OF LOW EMISSION TRAJECTORY

- BETTER UNDERSTANDING BY LOCAL BUSINESS THAT CLIMATE CHANGE IS PART OF THEIR BOTTOM-LINE,
- INCREASE COMMUNITY PARTICIPATION ON CLIMATE CHANGE RESPONSE RELATED PROJECTS, ENVIRONMENTAL FORUM COMMUNITY CHAMPIONS,
- BETTER ACCEPTANCE BY THE MUNICIPAL LEADERSHIP THAT ENERGY EFFICIENCY/RENEWABLE ENERGY IS NOT A THREAT TO ITS MAIN REVENUE SOURCE,
- **CLIMATE CHANGE BUDGET ALLOCATION**

AFFIRMATION OF LOW EMISSION TRAJECTORY: PROGRAMMES/ PROJECTS

IDENTIFICATION OF AND IMPLEMENTATION OF PROJECTS:

Solar Powered Streetlights

Paperless Administration:

Electronic agenda

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Office Recycling Project (as outcome of staff awareness),

Local Leadership Initiative:

Household Energy Efficient Kit Project- Groutville Care
Homes Project (20 Homes)

Hotbox Rollout Project,

CHALLENGES

- □ **MINDSET:** BUSINESS AS USUAL VS LOW EMISSION TRAJECTORY
- SPATIAL INEFFICIENCY: FRAGMENTED SETTLEMENT PATTERNS (E.G. GATED ESTATES)
- □ MOBILITY,
- **RESOURCES:** FINANCIAL, HUMAN CAPACITY
- □ ACCESS TO TECHNOLOGY,
- □ RELEVANT LEGISLATION,
- COMPETING PRIORITIES: SERVICE DELIVERY BACKLOGS VS NEW TRAJECTORY

LESSONS LEARNT

- **POLITICAL CHAMPION & BUY-IN**
- CLIMATE CHANGE CHAMPIONS (TECHNICAL) ASSIST IN MAINSTREAMING LOW EMISSION DEVELOPMENT WITH OTHER LINE DEPARTMENTS
- **BUILDING PARTNERSHIPS**
- **BASELINE INFORMATION:** KEY-MANAGE AND MONITOR WHAT YOU KNOW SET TARGETS AREAS TO FOCUS ON (DEVELOP CLIMATE CHANGE POLICIES)
- **BUILDING MOMENTUM** QUICK WIN PROJECTS
- **REPORTING ON MUNICIPAL ACTIONS ON GLOBAL PLATFORMS** ASSISTS TO **UNLOCK**

OPPORTUNITIES

- ESTABLISHING APPROPRIATE (COMMUNITY) STRUCTURES
- **CONTINUOUS AWARENESS** WITH RELEVANT STAKEHOLDERS (E.G. POLITICAL, ADMINISTRATION, COMMUNITY).



THANK YOU...



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