

# Model City KwaDukuza Municipality

## Low carbon vision:

KwaDukuza Municipality strives to be an environmentally sustainable municipality that anticipates, manages and reduces its vulnerability to potential global and local environmental shocks and works consistently with the department of environmental affairs to drastically reduce the impact of its built environmental and urban processes on the broader envelope of natural resources.

New low-carbon vision developed in Urban-LEDS project – still to be formally adopted:

By 2030 KwaDukuza will have successfully managed its transition to low carbon development and will be:

- A distinctive urban launch pad for the Richards Bay / uMhlatuze Corridor
- A job-rich green manufacturing, renewable energy and logistics hub
- A thriving tourism destination
- A model of integrated resource management and climate change adaptation
- A Shaka<sup>1</sup>-inspired interface with its traditional hinterland

## Final energy consumption in the community:

5,316,698.57 GJ

## GHG emissions from the community:

1,008,657.49 tCO<sub>2</sub>e (2012)

## Main economic activity:

Commerce, Service sectors, Agriculture.

## Main priority sectors for Low Emission

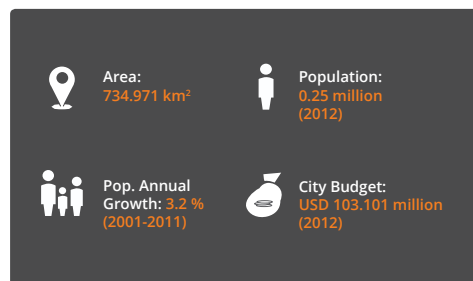
### Urban Development:

Green Economy, Green Building and Spatial Planning, Energy Poverty.

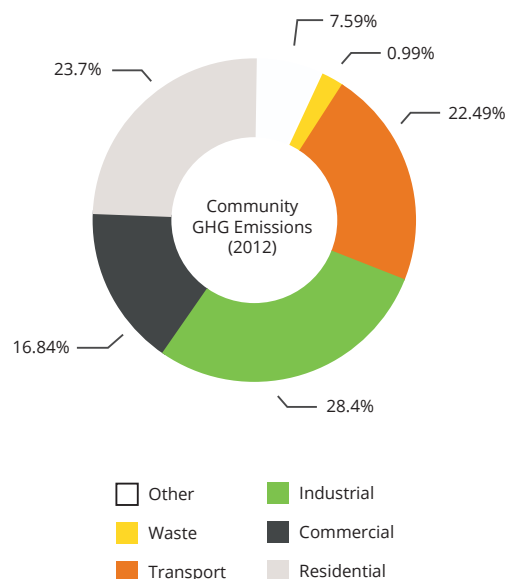
## Commitments:

Currently under discussion by the municipality is to have locally generated renewable energy of 10-15% by 2020. Further, the reduction in use of non-electrical fuel sources for cooking and heating (tentative target: to reduce by 12% by 2020) and to reduce per capita emissions by 10% by 2020.

<sup>1</sup> Shaka Zulu was a great Zulu warrior and king who united his people and showed leadership at a key moment in history.



## GHG inventory established in project:



## South Africa

www.kwadukuza.gov.za

## LED actions enabled by the Urban-LEDS project :

### Participatory scenario planning process

The aim of this process was to use the future scenario planning to craft a 2030 vision and objectives with municipal staff and stakeholders. In the course of the last year scenarios have been created with a preferred vision and underlying objectives. Currently these are being reviewed by external experts.

### Community engagement

Involving the wider community to get inputs into the low emission development 2030 vision. It has been developed by the municipality and local stakeholders, using creative engagement techniques including cartoons of the 2030 scenarios and a drama play depicting possible futures. This initial engagement session involved 400 local residents and further engagement with schools has already taken place. An ongoing engagement is planned.

### Roll-out of 500 hotboxes (passive insulated cookers) to households

The aim is to reduce poverty, decrease energy use and fire risk, but also to promote gender empowerment. Some hotboxes have already been distributed to Ward Councilors who act as "train-the-trainers". Full roll-out and training is scheduled for January 2015. A monitoring and evaluation component is included to track emission reductions in each household.

### Engagement of local businesses

The local business community is encouraged to be ambassadors for the low emission development vision within the community. This process has been kicked off and is ongoing, pursued in partnership with the local Chamber of Commerce.

### Green building policy development

For 2015 it is envisaged to develop a policy and implementation plan to encourage compliance with green building criteria in new developments.

### Roll-out of resource efficiency service package in local orphanages

With pending approvals, this roll-out is planned for 2015 and aims at demonstrating local leadership and reducing energy poverty through a visible retrofit project, involving strategic local leaders.

## Further engagements:

- Reporting in the carbonn Climate Registry ([www.carbonn.org](http://www.carbonn.org))
- GHG inventory compliant with the Global Protocol on Community-Scale Gas Emissions (GPC)



*"The selection as one of the seven municipalities in South Africa to participate in the Urban-LEDS Programme is a testament to our hard work and dedication in ensuring that our vision 2030 is achieved and our unyielding commitment to service delivery."*

**Ricardo Mthembu,**  
Mayor of KwaDukuza Municipality

