



KAAP AGULHAS MUNISIPALITEIT  
CAPE AGULHAS MUNICIPALITY  
U MASIPALA WASECAPE AGULHAS

**INTERNAL ENERGY  
MANAGEMENT POLICY  
IMPLEMENTATION**

# **CAPE AGULHAS MUNICIPALITY**

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# BACKGROUND

- The Electricity Services department was reporting on monthly internal consumption as part of the monthly report and was concerned about the extent of internal consumption.
- The Municipality has also had consistently low total electrical loss figures for the past 10 years and it would be very difficult to realise material savings in that area. It was felt that internal energy consumption reduction was the correct intervention.
- With the invite to participate in the MEMS program during 2019, the Municipality applied under the Aspirant Municipalities call.
- The Municipality was accepted onto this program as the process was already underway albeit at a very basic level.

# THE NEED FOR A POLICY

- A policy is required to ensure that all role players within the Municipality are informed and are working together to achieve the set goals of the Municipality.
- Supply Chain Management usually follow the “cheapest best item” approach and do not often consider energy saving technologies, as it comes at a price premium.
- The policy is a council approved document which outlines a systematic approach in how energy is used within the Municipality.
- The policy will optimise the use of energy within the Municipality by ensuring a systematic improvement in how energy is used in the infrastructure owned by the Municipality.
- The policy will inform Supply Chain Management as to which technologies need to be procured in the various infrastructure areas.

# CHALLENGES FACED WITH IMPLEMENTATION

- The biggest challenge is to get Council to read and understand the content of the policy.
- Other departments are reluctant to accept the policy, as it dictates energy efficient technologies that they might not understand, or be willing to implement due to costs or historical preferences.
- The Budget and Treasury Office are reluctant to provide the extra budget to enable the implementation of energy efficient interventions.
- Municipal staff are reluctant to change their usage behaviour and be responsible for their consumption.

# AREAS TARGETED FOR INTERVENTIONS

- The installation of VSD's are mandatory for all new installations, as well as all retrofits in all motor control applications.
- All streetlights, area lights and floodlights will be of the LED type.
- All internal building lights to be systematically replaced with LED technology
- All appliances, heat pumps and HVAC to comply with the table provided in the policy.
- Occupancy sensors to be fitted in common areas to limit consumption.

Appliance Type	Regulation	Minimum Required by this Policy
Air Conditioners	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	A minimum energy efficiency rating of Class A
Heat Pumps	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	A minimum energy efficiency rating of Class A
Audio and Video Equipment	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Audio and Video Equipment shall comply with SANS 941
Large Electric Ovens	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941, and shall have a minimum energy efficiency rating of Class A.
Small/ Medium Electric Ovens	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941 and shall have a minimum energy efficiency rating of Class A+.
Refrigerators	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941, and shall have a minimum energy efficiency rating of Class A.
Freezers	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941, and shall have a minimum energy efficiency rating of Class B.
Dishwashers	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941 and shall have a minimum energy efficiency rating of Class A+.
Washing Machines	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941 and shall have a minimum energy efficiency rating of Class A+.
Washer-dryer combinations	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941 and shall have a minimum energy efficiency rating of Class A+.
Tumble -dryers	Compulsory Specification for Energy Efficiency and Labelling of Electrical and Electronic Apparatus	Comply with SANS 941, and shall have a minimum energy efficiency rating of Class C.
Geysers and hot water storage tanks	Compulsory Specification for Hot Water Storage tanks for domestic use	A minimum energy efficiency rating of Class A

# THE PROCESS FOLLOWED

- The biggest challenge with the implementation of any policy, is acquiring feedback to address the contents of the policy and any possible shortcomings or omissions.
- Due to this, the policy was circulated to all managers and possible internal stakeholders, and they were given 60 days to provide comment, with reminders at regular intervals.
- The policy was workshopped at the Infrastructure Portfolio Committee meeting with all Councillors, to facilitate understanding of the policy and approval later at a council meeting.
- The policy was then tabled as an item at the next Month's Infrastructure Portfolio Committee, with a recommendation that it be approved for submission to Council for adoption.
- This was then approved and the policy was sent to the Executive Mayoral Committee, with the same recommendation. The policy was then approved by the Executive Mayoral Committee for submission to council for adoption.
- The policy was tabled to Council and adopted by Council, with no comments or questions asked in the Council meeting, due to the extensive process followed.

# POLICY OWNER

- It was decided that the policy owner would be the Chairperson of the Infrastructure Portfolio Committee.
- This was decided as the small Municipalities do not have enough human capacity to form an Energy Management Committee.
- The Portfolio Committee also has the necessary jurisdiction to enforce the policy.
- The Portfolio Committee will also then be responsible for ensuring regular revisions of the policy as laid out therein.



# ADVANTAGES OF COUNCIL APPROVAL

- Council approval ensures that all interventions as listed in the policy will be implemented.
- Council remain informed as to the implementation of savings measures.
- Council will co-operate with the administration at budget cycles.
- Council take an active role in energy management
- The Municipality's policy also includes targeting fuel consumption. This has become a burning issue currently with the ongoing high levels of loadshedding.

# FUTURE OF ENERGY MANAGEMENT FOR CAPE AGULHAS MUNICIPALITY

- The policy will be updated Annually and targets revised on a three yearly basis.
- Fuel consumption will be targeted more actively as there are large savings to be had by determining more efficient routes for solid waste vehicles.
- Standby generator consumption will have to be carefully assessed as to the necessity of running all facilities to maintain business continuity.
- VSD drives have already allowed the Municipality to be able to downsize on generator capacity due to the absence of large start-up currents. This will also aid in decreasing the diesel consumption and corresponding cost.
- With all of these interventions the Energy Performance of our own facilities have drastically improved from the 2019 baseline.
- The Municipality is also in the process of feasibility studies for own generation via the PPP model.
- Various projects have been submitted for financing for alternative energy generation on the Municipality's own facilities.

A large, dark stingray is resting in shallow, clear turquoise water. A man in a white cap and shorts is crouching in the water near the stingray, possibly feeding it. In the background, a woman in a blue shirt stands in the water, and a wooden pier with people is visible on the right. The foreground shows a rocky shoreline with large, dark rocks.

***COMMENTS/QUESTIONS***