Why is an energy Management Action Plan Required?

An energy management policy provides a strategic statement on how energy should be managed in a municipality

For the implementation of the policy to take place, a clear plan is required on how to implement the policy

An energy management action plan bridges the gap between policy and implementation on the ground

Key Elements of an Energy Management Action Plan

Targets for energy use and energy generation in different areas of municipal operation

A clear list of tasks and activities to achieve the targets

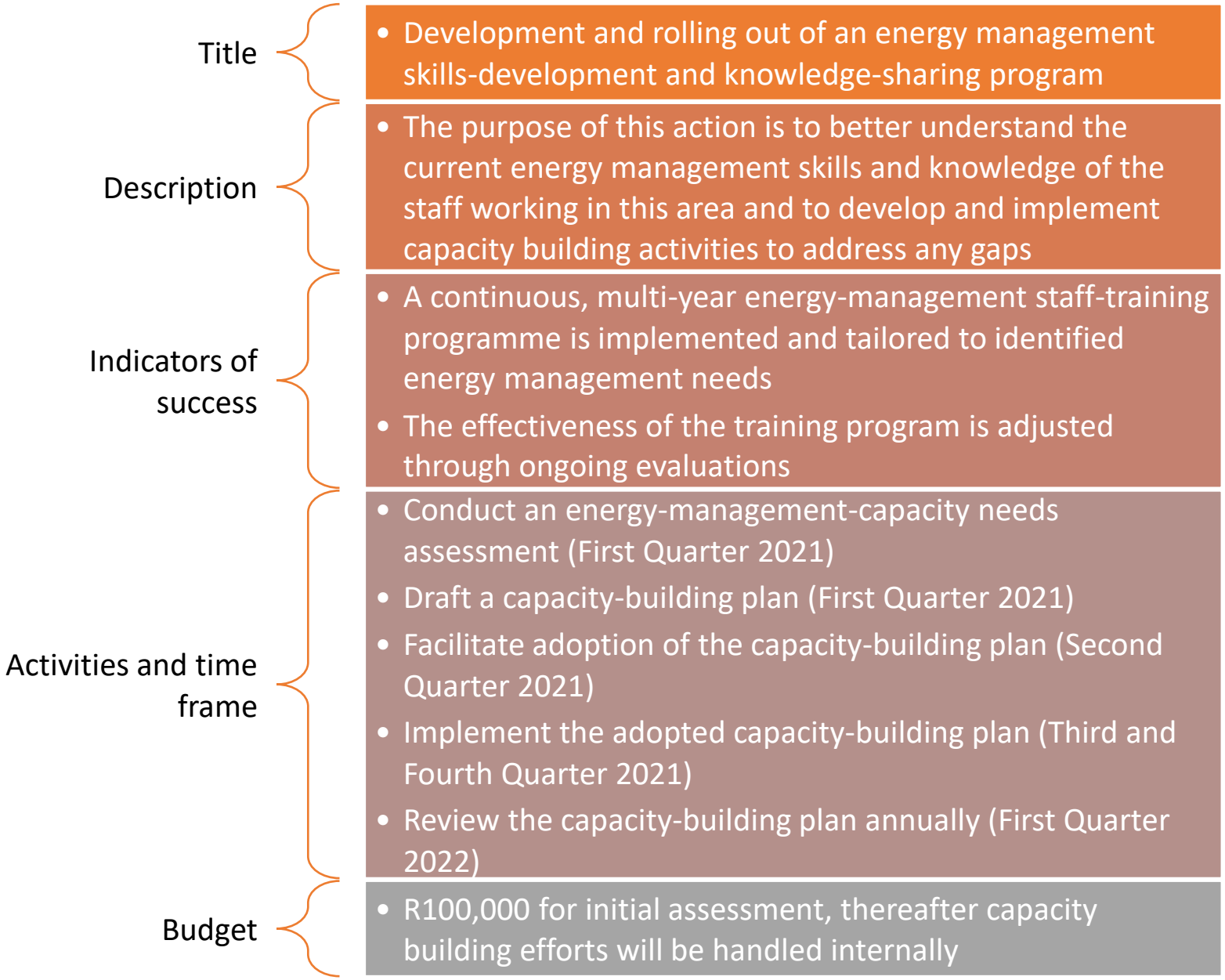
A clear allocation of responsibilities

A clear system for monitoring and evaluation of actions

An allocation of human and financial resources

An energy Management Action plan should include Actions for each element of the Municipal Energy Management System

- Policy: Actions related to establishing and reviewing the policy
- Organisation: Actions related to setting up and managing organisational structures
- Skills and Knowledge: Action related to building capacity and knowledge
- Information Systems: Actions related to developing systems to measure energy usage and savings
- Marketing and Communication: Actions related to communicating and marketing energy implementation
- Investment: Actions related to securing energy management investments
- Implementation: Actions related to implementing energy management interventions

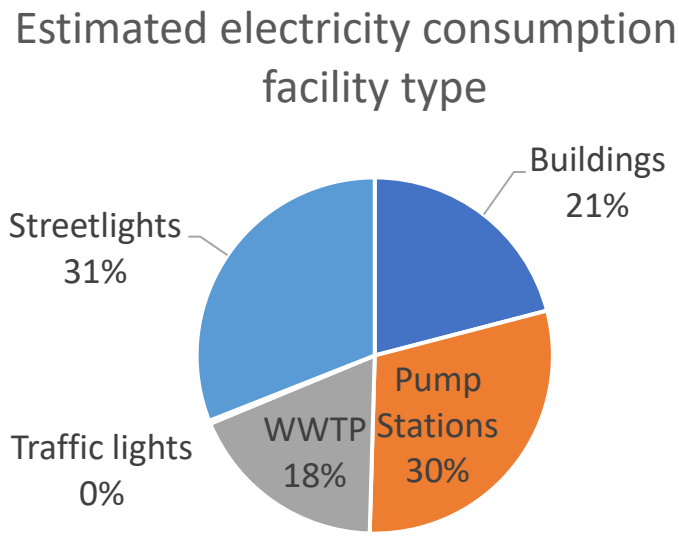


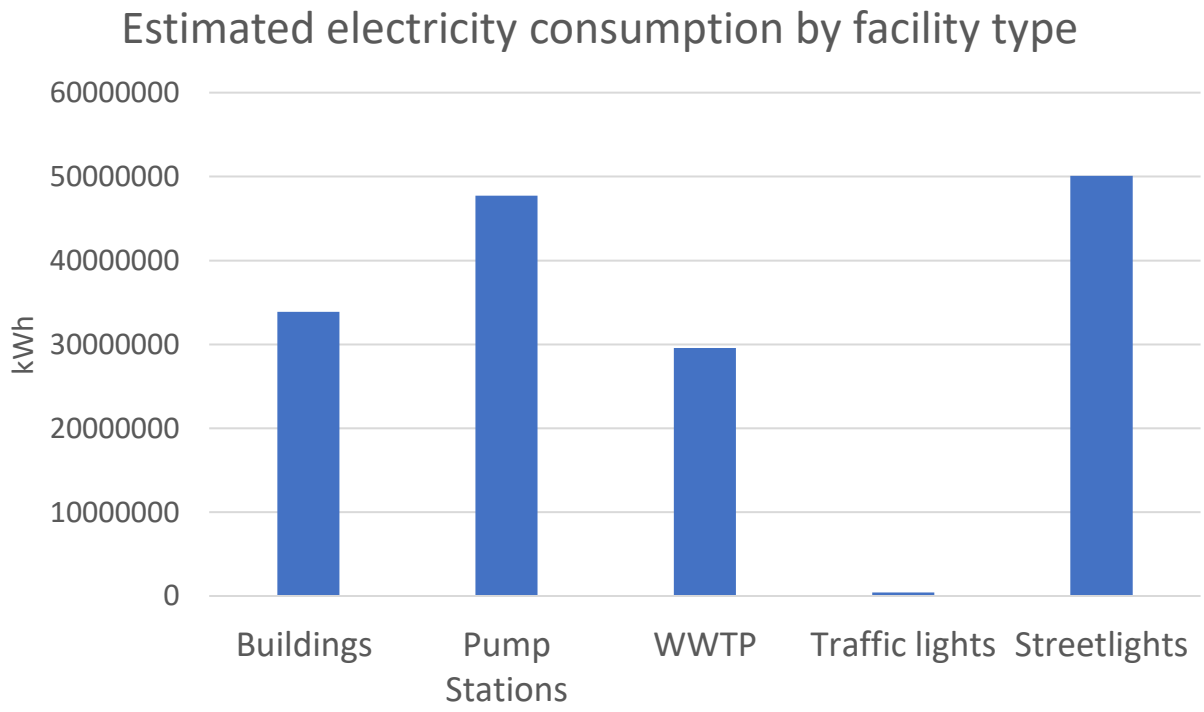
Example of an Action from an energy Management Action Plan

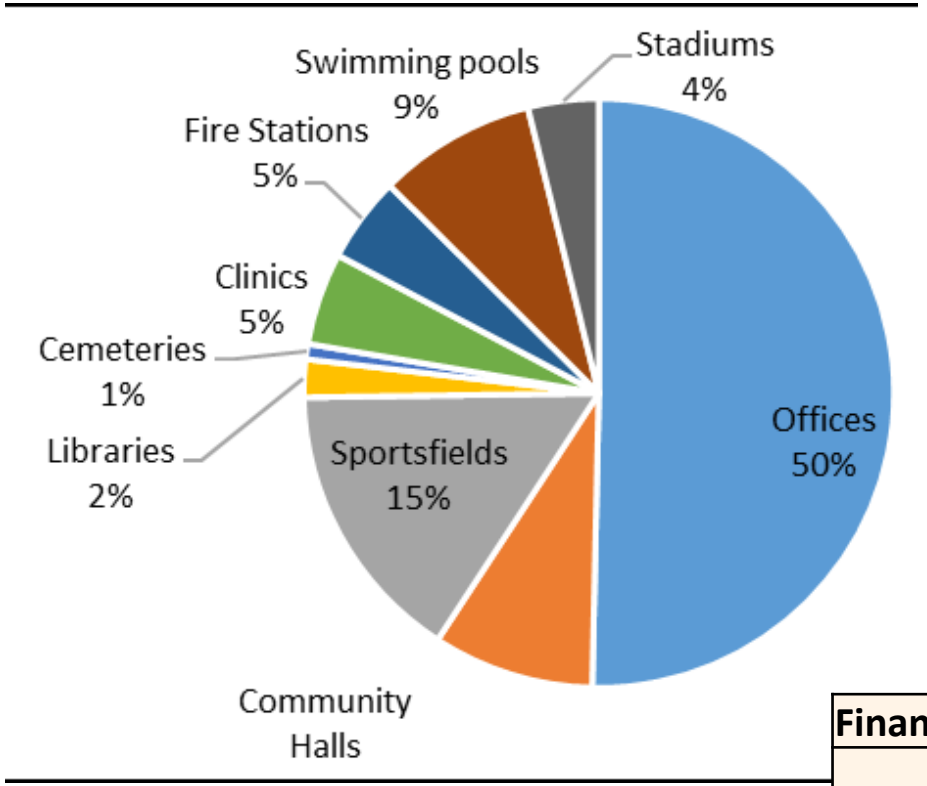
Implementation Action 6: Municipal Electricity Accounts Tariff Analysis	From	To	Responsible Person	Budget Year 1	Budget Year 2	Budget Year 3	Status
Assessment of the City Hall HVAC system	Jul 2021	Sep 2021	General Manager: Energy	Done internally			Complete
A cost benefit analysis comparing the cost of repairing the HVAC system with the replacement by a new more energy efficiency system	Sep 2021	Nov 2021	External consultant	R200,000			Complete
Reviewing of the assessment and cost benefit analysis by senior management and selection of the best way forward	Dec 2021	Dec 2021	General Manager: Energy	Done internally			In progress
Development of an implementation plan for selected approach	Jan 2022	Mar 2022	General Manager: Energy	Done internally			To be initiated
Secure internal or external financing for the selected approach	Apr 2022	Jun 2022	General Manager: Energy	Done internally			To be initiated
Implement selected approach	Jul 2022	Dec 2022	General Manager: Energy		R5 Million		To be initiated

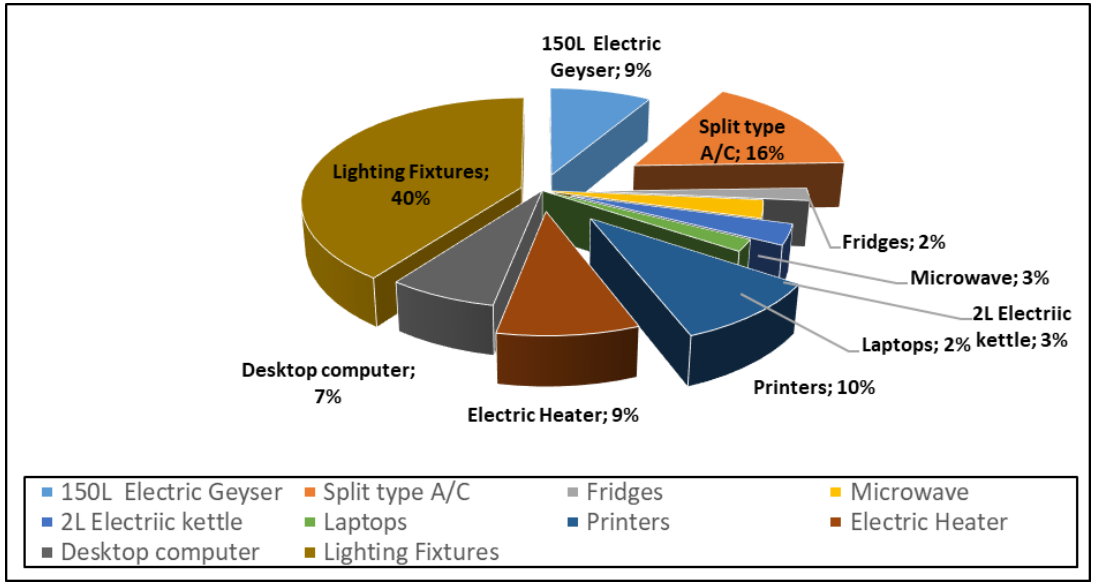
- Action Plan template
- Prioritising energy management interventions
- MEMS matrix and assessment
- Checking the success of implemented interventions

Identifying retrofit actions









Financial savings and carbon reduction from lighting and HVAC retrofitting				
	Energy Savings (kWh/Year)	Rand Savings/Year	Cost	CO2 Reduction (kg)
	44 379,26	R72 702,11	R255 488,34	43 491,68
% savings	11			
Simple Pay Back Period (Years)	3,5			