



Establishing a municipal energy management programme



Implemented by:

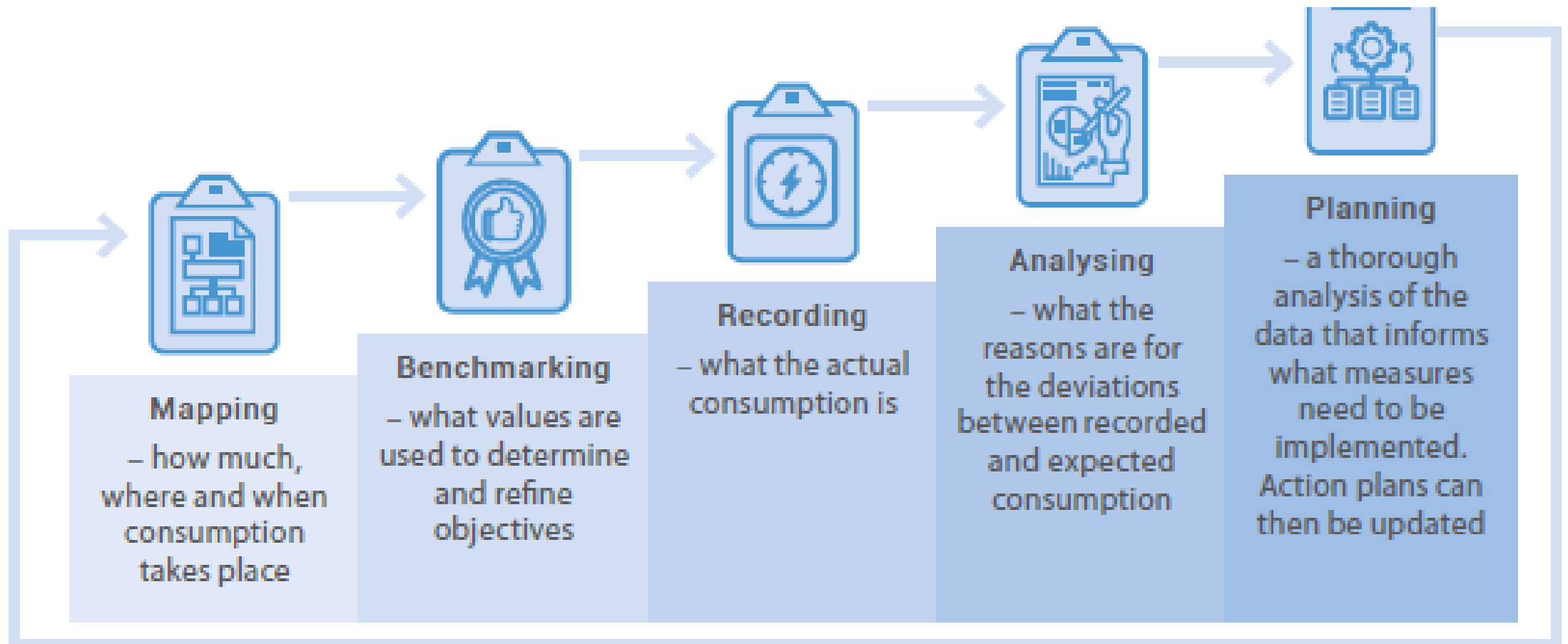


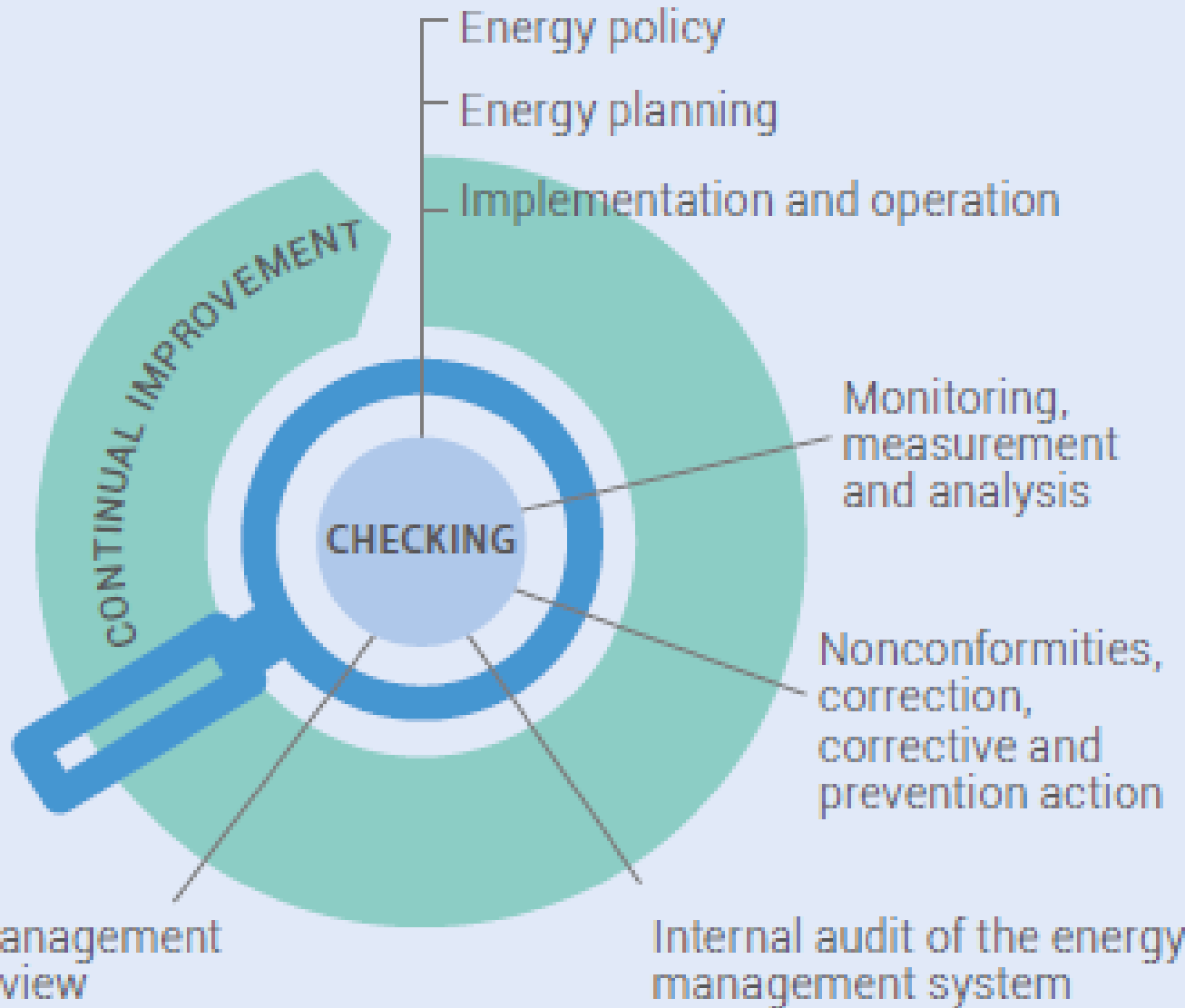
What is Municipal Energy Management Systems?



Energy management is a systematic and continuous monitoring of energy consumption and the planning of actions to optimise it and its cost to the municipality.

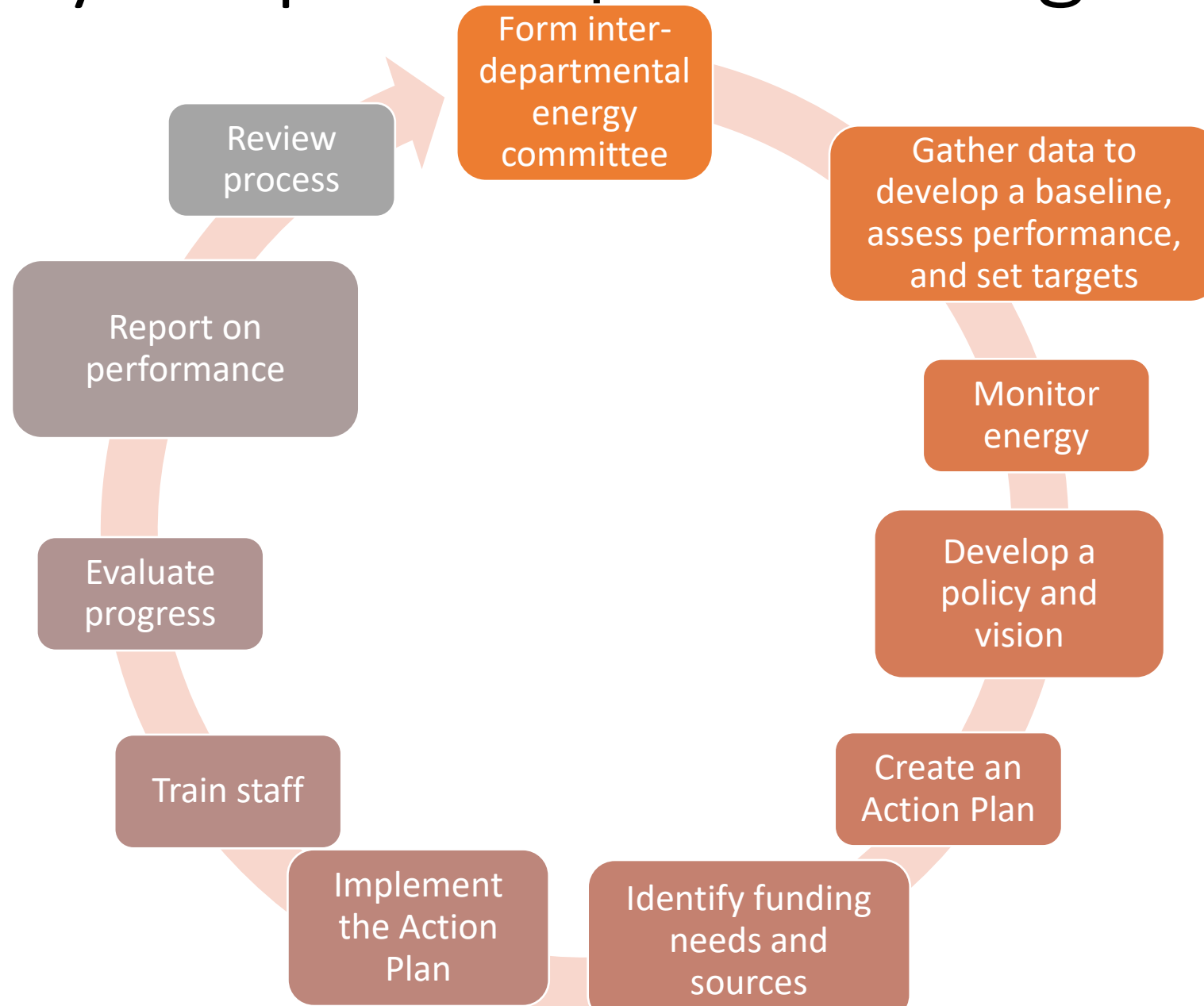
Energy management systems embed these approaches into policies, procedures and work descriptions, thereby ensuring its sustainability.





ISO 50001: 2018

Step-by-step to implementing MEMS





ENERGY MANAGER

Responsible for coordinating municipal energy matters.
Link between energy responsible persons and central energy function.

ENERGY MANAGEMENT GROUP

Comprises energy manager and departmental heads
Plans and implements overall objectives.
Designates "energy responsible people" in each of the units within the departments.



DEPARTMENT (A)



DEPARTMENT (B)



DEPARTMENT (C)



DEPARTMENT (D)

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

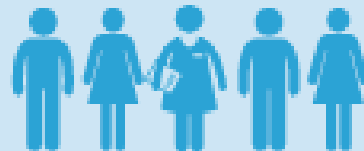
Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

Energy responsible person

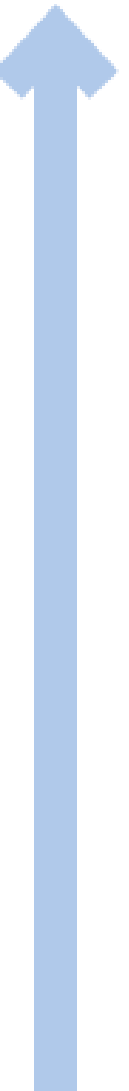


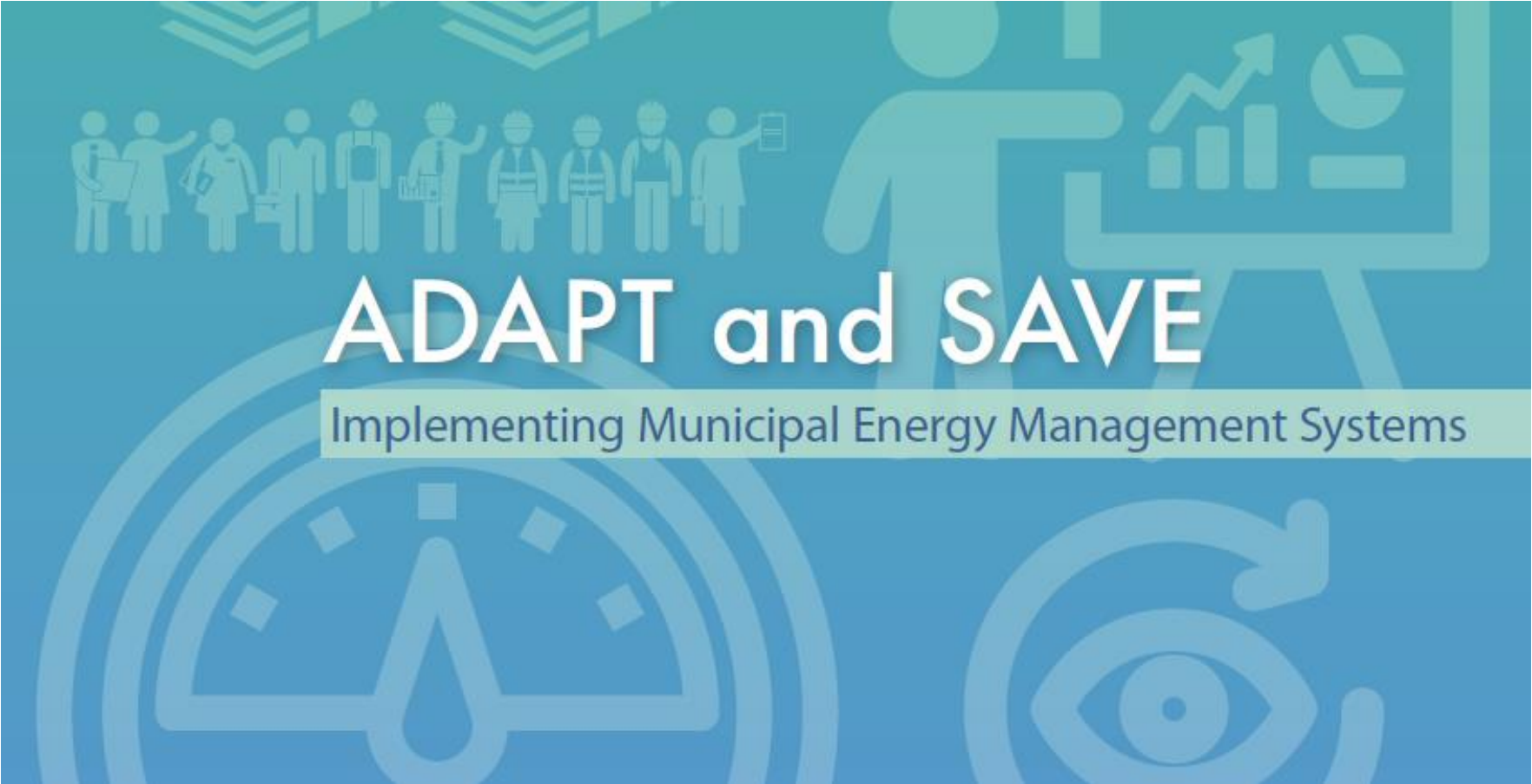
SENIOR MANAGEMENT

DEPARTMENTAL

Energy management matrix

Level	Energy Policy	Organising	Training	Performance Measurement	Communication	Investment
4	Energy Policy, Action Plan and regular reviews have active commitment of top management	Fully integrated into senior management structure with clear accountability for energy consumption	Appropriate and comprehensive staff training tailored to identified needs, with evaluation	Comprehensive performance measurement against targets with effective management reporting	Extensive communication of energy issues within and outside of organisation	Resources routinely committed to energy efficiency in support of organisational objectives
3	Formal policy but no active commitment from top management	Clear line management accountability for consumption and responsibility for improvement	Energy training targeting major users following training needs analysis	Weekly performance measurement for each process, unit, or building	Regular staff briefings, performance reporting and energy promotion	Same appraisal criteria used for energy efficiency as for other cost reduction projects
2	Un-adopted policy	Some delegation of responsibility but line management and authority unclear	Ad-hoc internal training for selected people as required	Monthly monitoring by fuel type	Some use of organisational communication mechanisms to promote energy efficiency	Low or medium cost measures considered if short payback period
1	An unwritten set of guidelines	Informal, mostly focused on energy supply	Technical staff occasionally attend specialist courses	Invoice checking only	Ad-hoc informal contacts used to promote energy efficiency	Only low or no-cost measures taken





SUSTAINABLE
ENERGY
AFRICA



SUSTAINABLE
ENERGY
AFRICA



Implemented by:



SAGEN

SOUTH AFRICAN-GERMAN
ENERGY PROGRAMME

Questions

Thank you, Siyabonga