



RECP Savings Potential & M&E Overview

Project Manager
Lindani Ncwane



Presentation Overview



- Savings potential
- Monitoring & Evaluation (M&E) study overview and summary



Since 2003

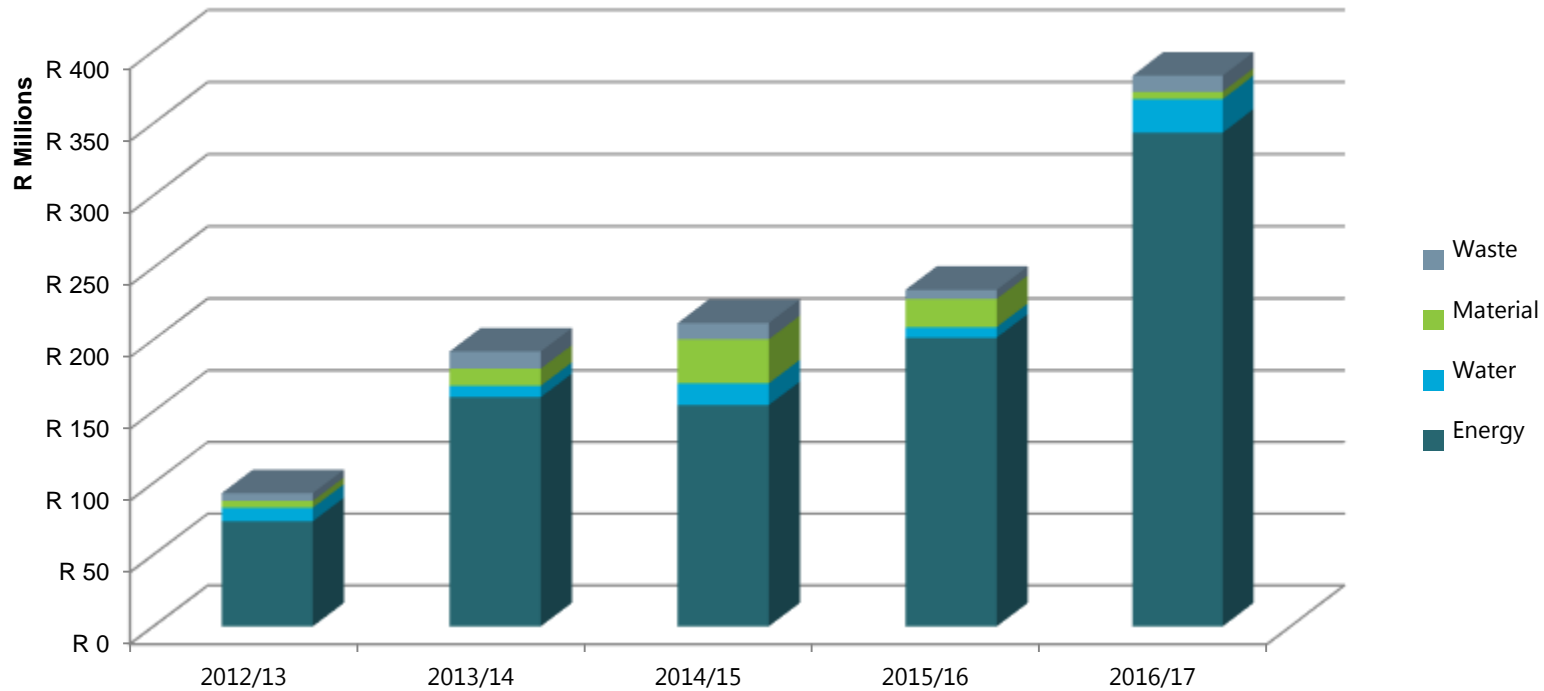
1,087 sites have been assessed –

with **806 in the past five years.**

RECP Assessments since 2013



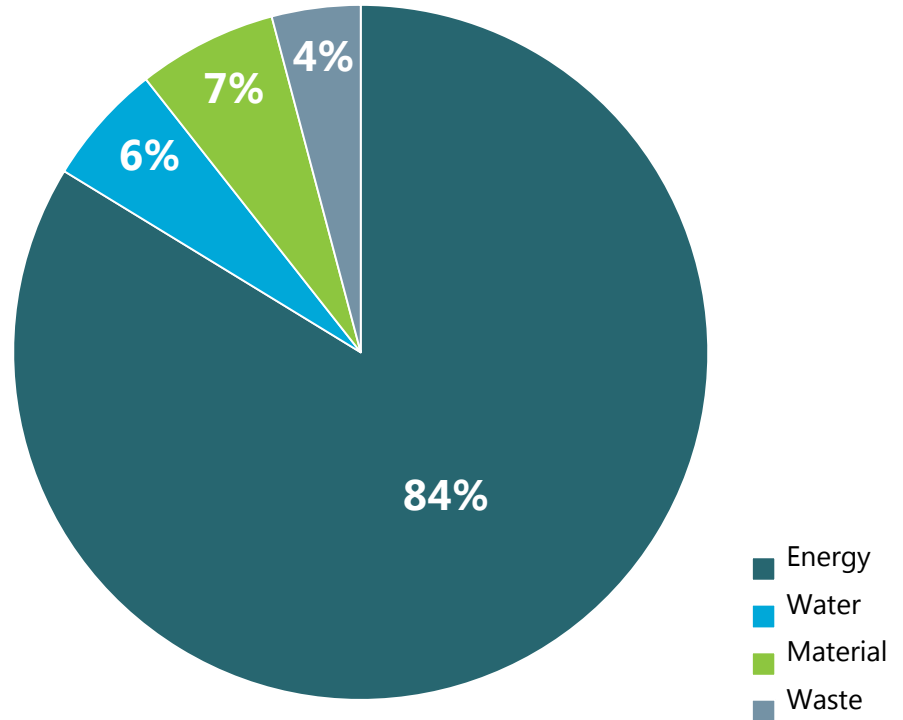
Potential savings of **R 1.1 Billion** identified in **806 companies** in 5 years



Potential Savings since 2012/13 (Five Years)



- **Energy** accounted for **84% of the** potential financial savings due to two main factors:
 - Energy demand constraints and price increases have highlighted energy efficiency.
 - The financial cost (price) of energy is higher than that of other resources such as water.



Potential Savings per Company on the Increase



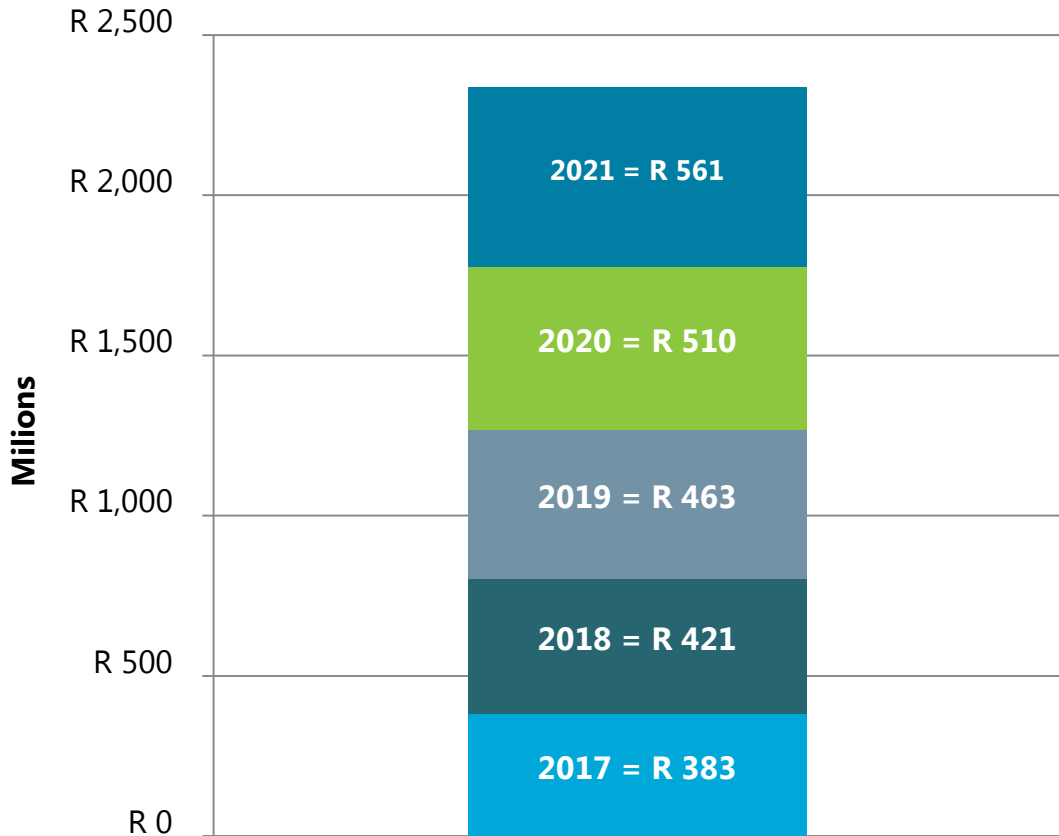
- The R383 million in potential savings identified in 2016/17 year = an **average company saving of R3 million per annum**.
- Compared to the average of five years ago (2012/13) = R850,000 per company.

	2013	2014	2015	2016	2017
Companies assessed	107	201	179	191	128
Potential savings p/annum	R91 m	R187 m	R212 m	R231 m	R383 m
Average p/company	R0.8 m	R0.9 m	R1.9 m	R1.2 m	R3 m

Potential Projected Savings for 2016/17 Companies



- If the **128 companies** assessed during 2016/17 implement all NCPC-SA's recommendations, they could save a combined **R2.3 billion** over the next five years.
- **Escalation 10%**



Companies Assessed since 2013



- When viewed in retrospect, the 806 companies assessed since 2013 could save a cumulated total of R12.4 billion if 100% of the opportunities identified were implemented.
- At a reasonable expectation of **50% implementation**, this translates into R6.2 billion in potential savings over 10 years, as indicated in the following graph:

Projected Savings Potential



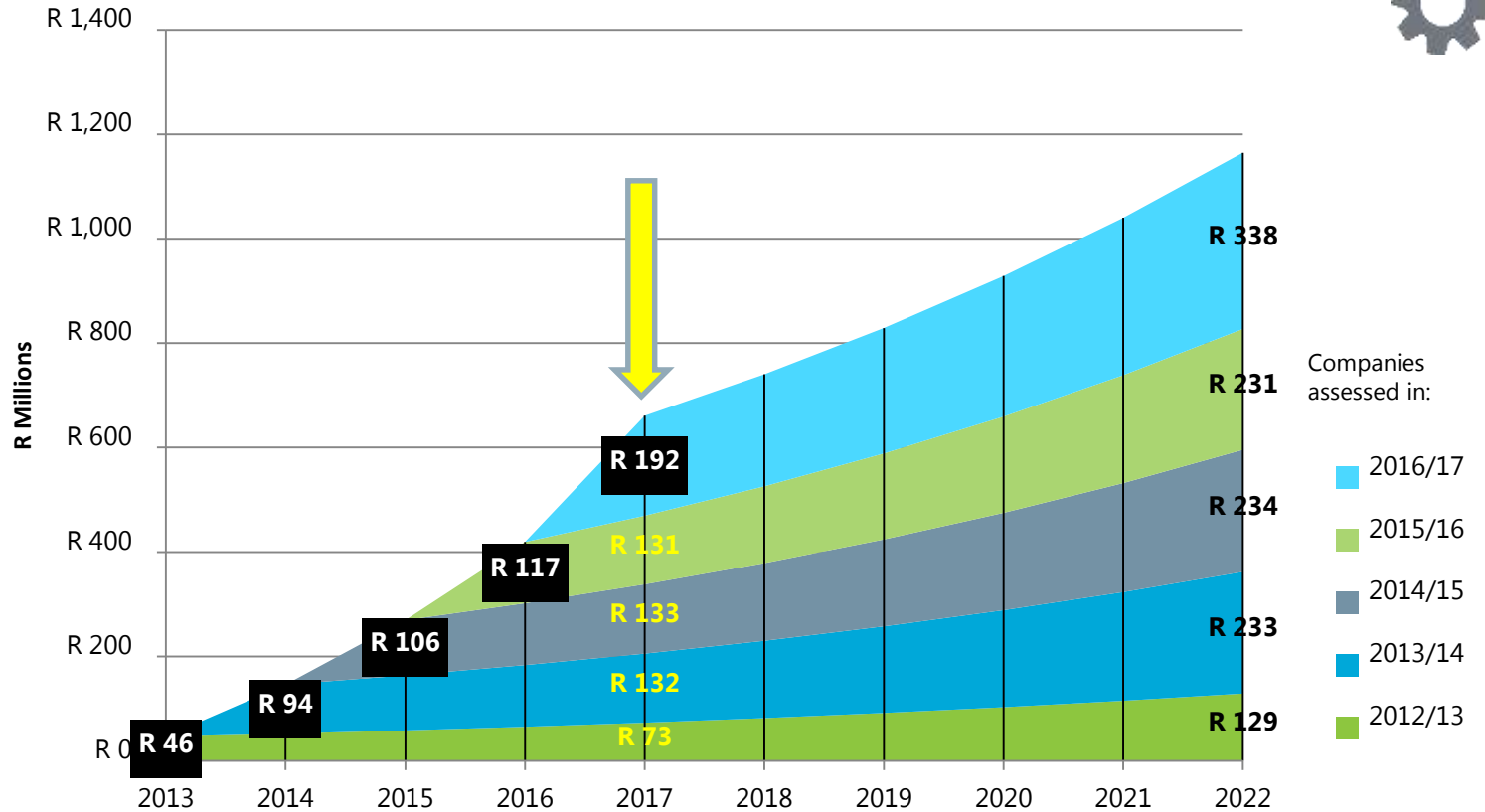
**806 companies
(2013-2017)**

**Based on 50%
implementation**

**Potential
savings
projected to
2022 =**

R6.2 billion

*Costs escalated at
12% due to historic
cost increases*



Companies assessed in:

- 2016/17
- 2015/16
- 2014/15
- 2013/14
- 2012/13

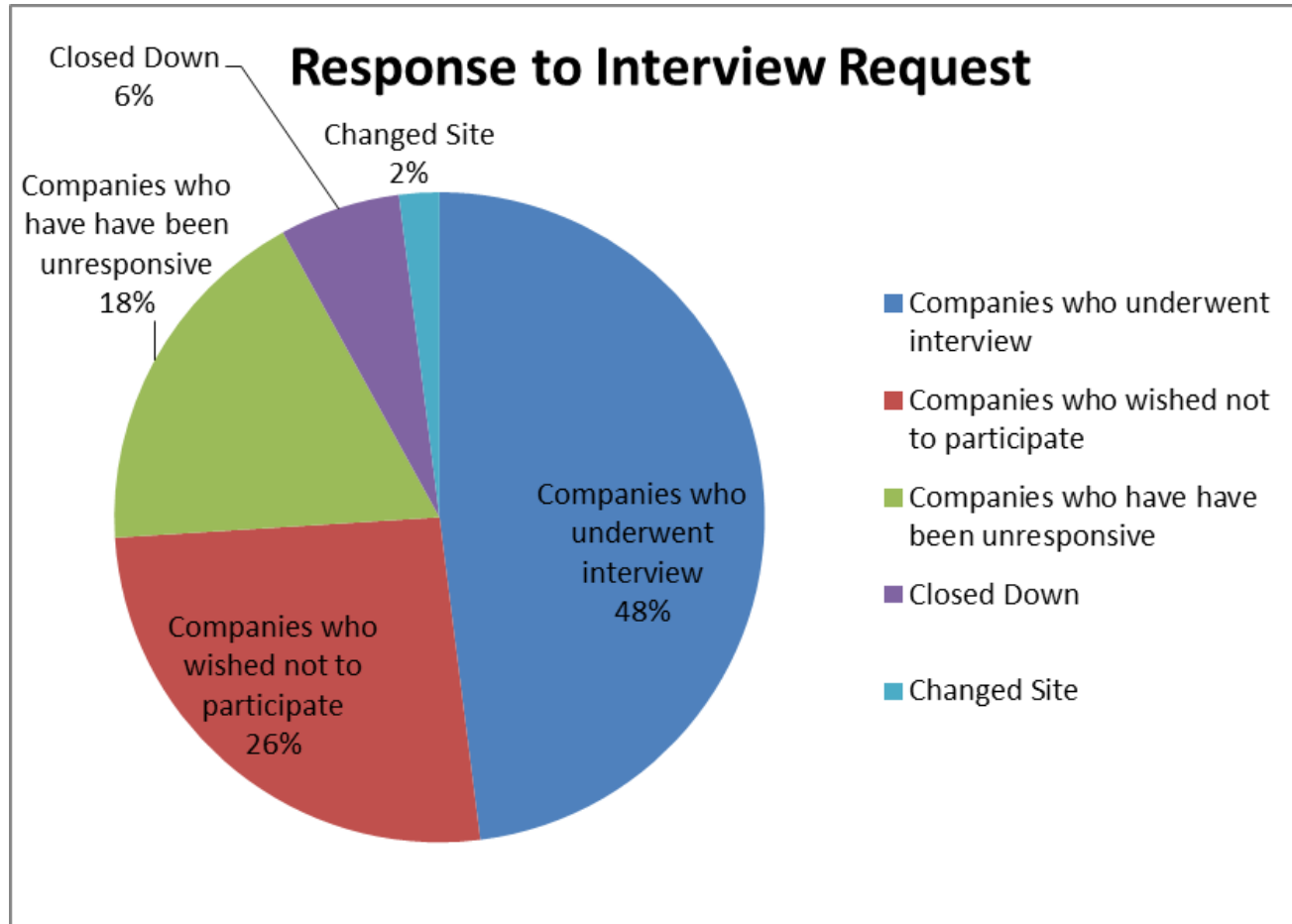


Monitoring & Evaluation (M&E) Study Overview & Summary



A monitoring and evaluation study was undertaken in early March 2016 at 50 various sites within the Durban, KZN area to understand the level of impact the NCPC-SA centre has for the industrial sector, as well as to establish the level of implementation achieved and barriers for implementation ,where the focus was on the assessed companies from previous years (4 years ago).



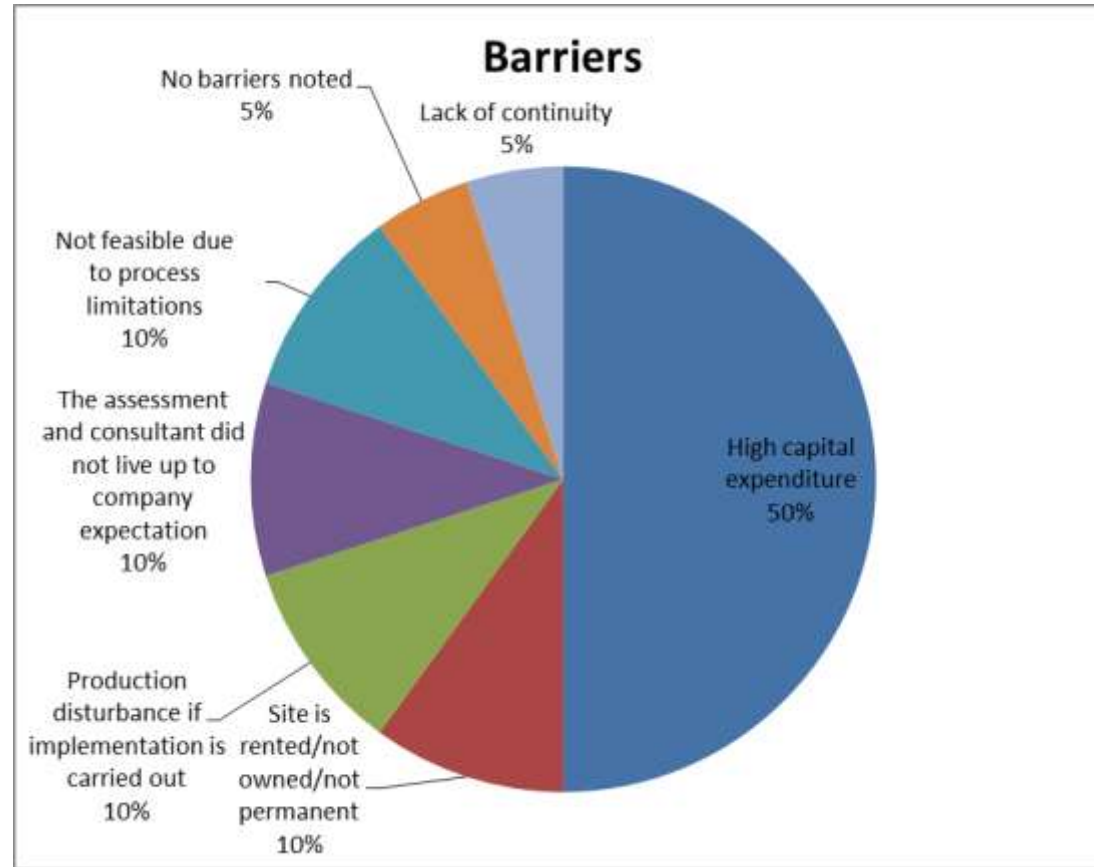


The Top 5 Barriers that Hinder Implementation are:



- High capital expenditure.
- Lack of follow-up.
- Site is rented/ or not owned or not permanent.
- Production disturbance if implementation is carried-out.
- The assessment and consultant did not live up to company expectation.

Barriers against Implementation



The Top 5 Success Factors that Drive Implementation are:

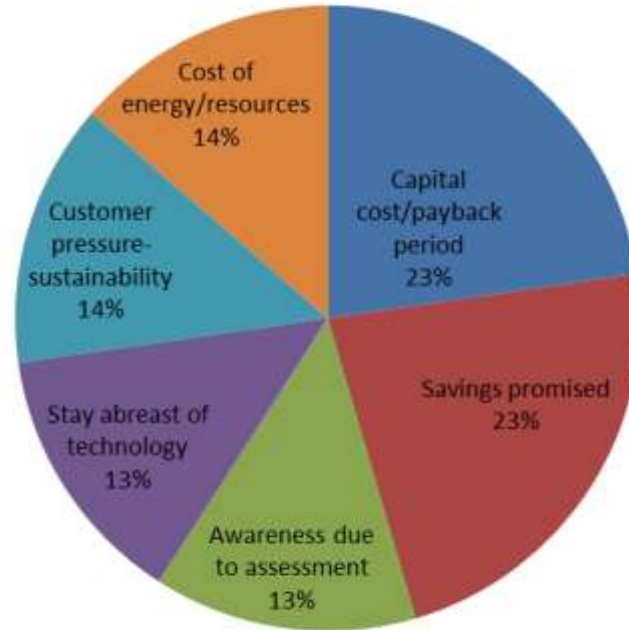


- Savings promised.
- Capital cost or payback period.
- Cost of energy or resources.
- Awareness due to assessment.
- Staying abreast of technology and best practices.
- Customer pressure to ensure sustainable practice.

Success Factors to Drive Implementation



Success factors





- The lessons learnt by the NCPC-SA following the M&E survey, the Resource Efficiency Cleaner Production (RECP) savings potential opportunities that were identified are being taken up with the companies to improve implementation, by building relationship with companies and providing further technical support.
- Value of doing regular (weekly) company follow-ups has started to yield results ,where implementation work is being captured even through a case study.



THANK YOU

EMAIL: LNcwane@csir.co.za
WEBSITE: www.ncpc.co.za

