



Practical Guide for  
Implementing an Energy Management System



UNITED NATIONS  
INDUSTRIAL DEVELOPMENT ORGANIZATION

# Energy Management System (EnMS)

## The business case

**Insert the name of the company**

Why a systematic approach to  
energy management makes  
business sense for us



# Content/ Structure

1. What is being proposed?
2. The Current Situation
  - Energy consumption and costs
  - Energy cost trends
3. What is Energy Management?
4. What can be achieved?
5. What can WE achieve?
6. How does it work?
7. What do we do next?



## What is being proposed?

- ✓ Reduced operating costs
- ✓ Reduced exposure to rising energy costs
- ✓ Improved reliability and productivity
- ✓ Reduced environmental impact
- ✓ Improved corporate image
- ✓ Alignment with ISO 50001

**Initially based on low cost improvements**

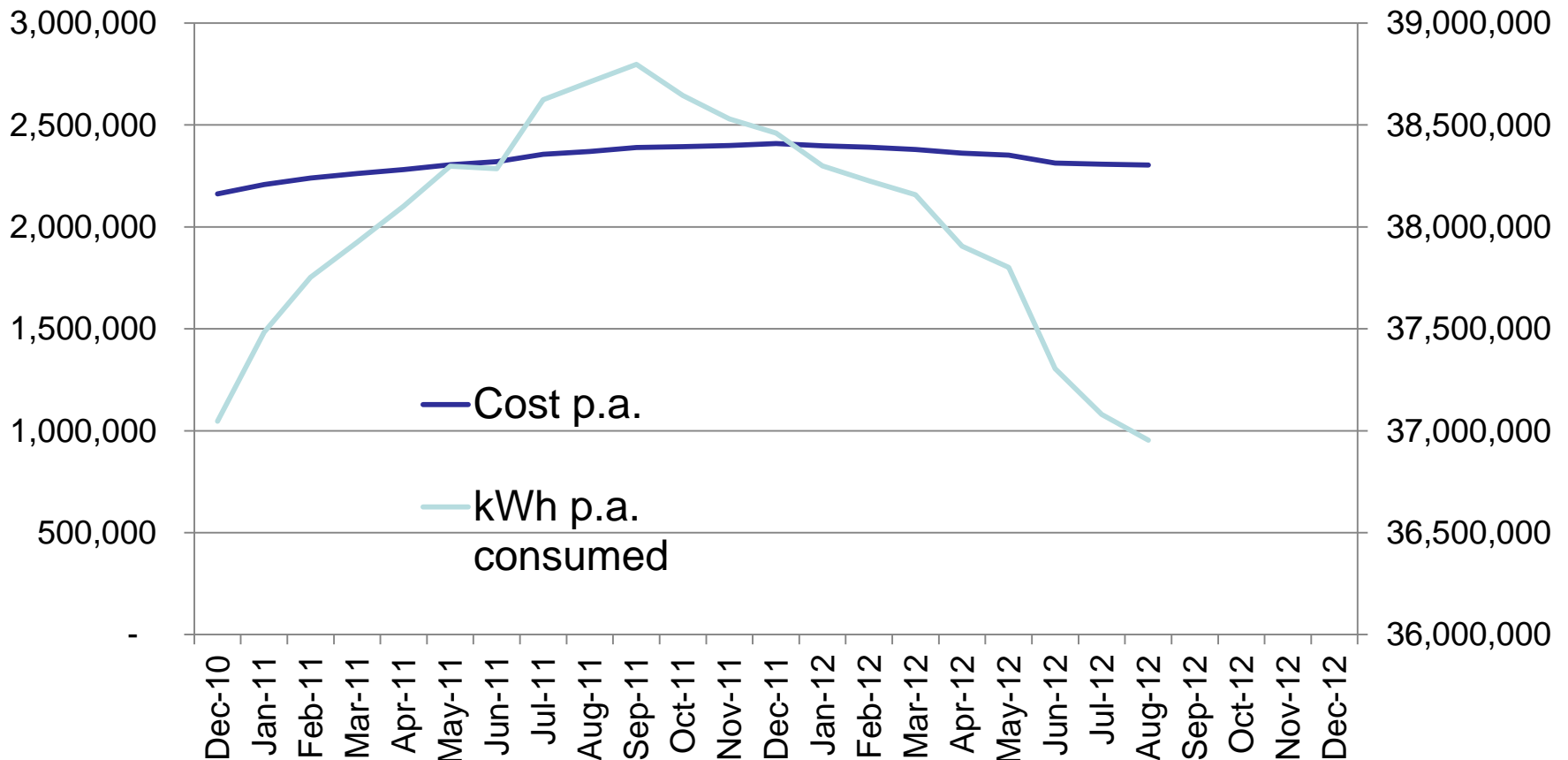
# The current situation – energy trends

Energy Costs

[Currency]

Energy Consumption

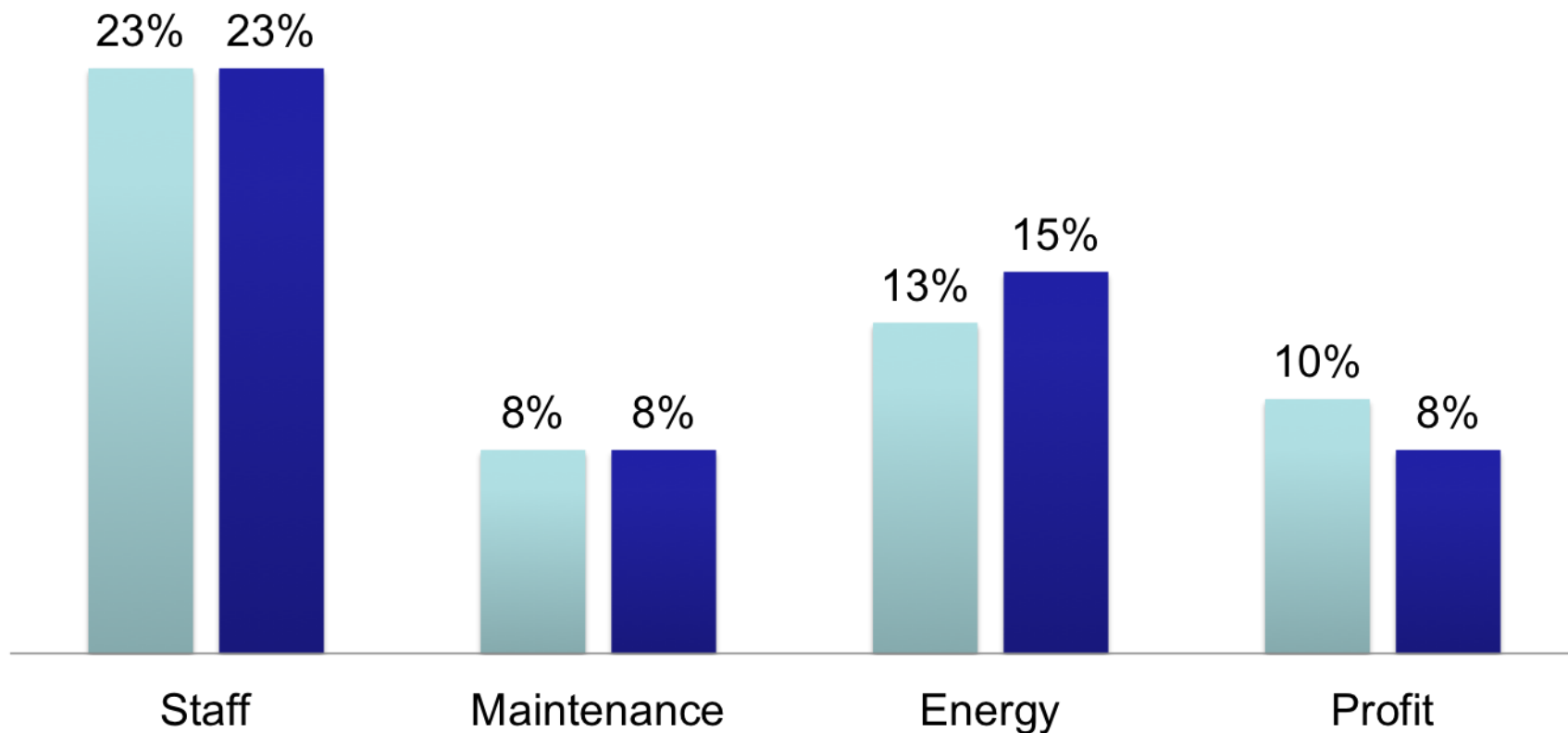
[kWh]





## Relative % of turnover

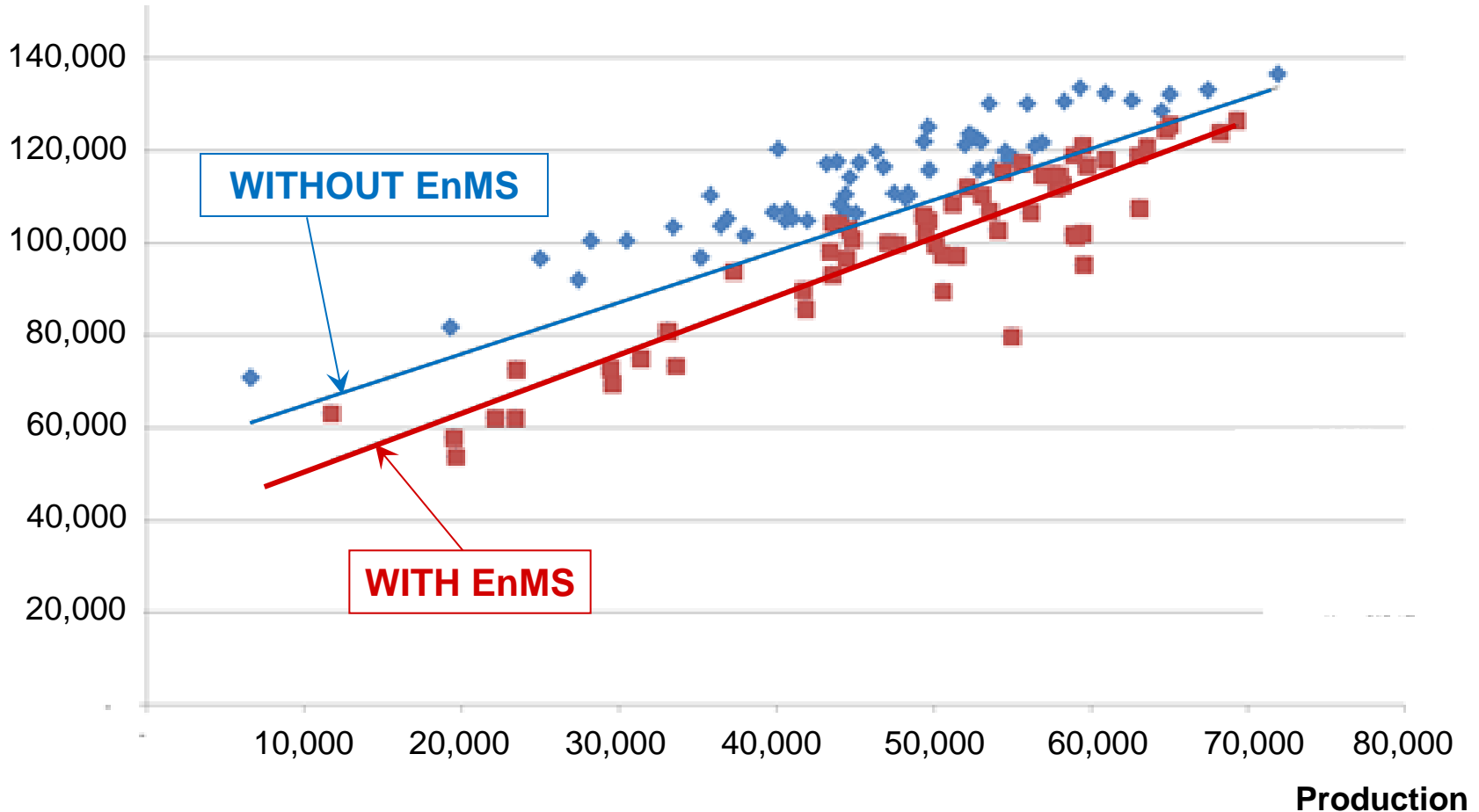
■ Last Year ■ This year2





# What can be achieved with EnMS/ISO 50001

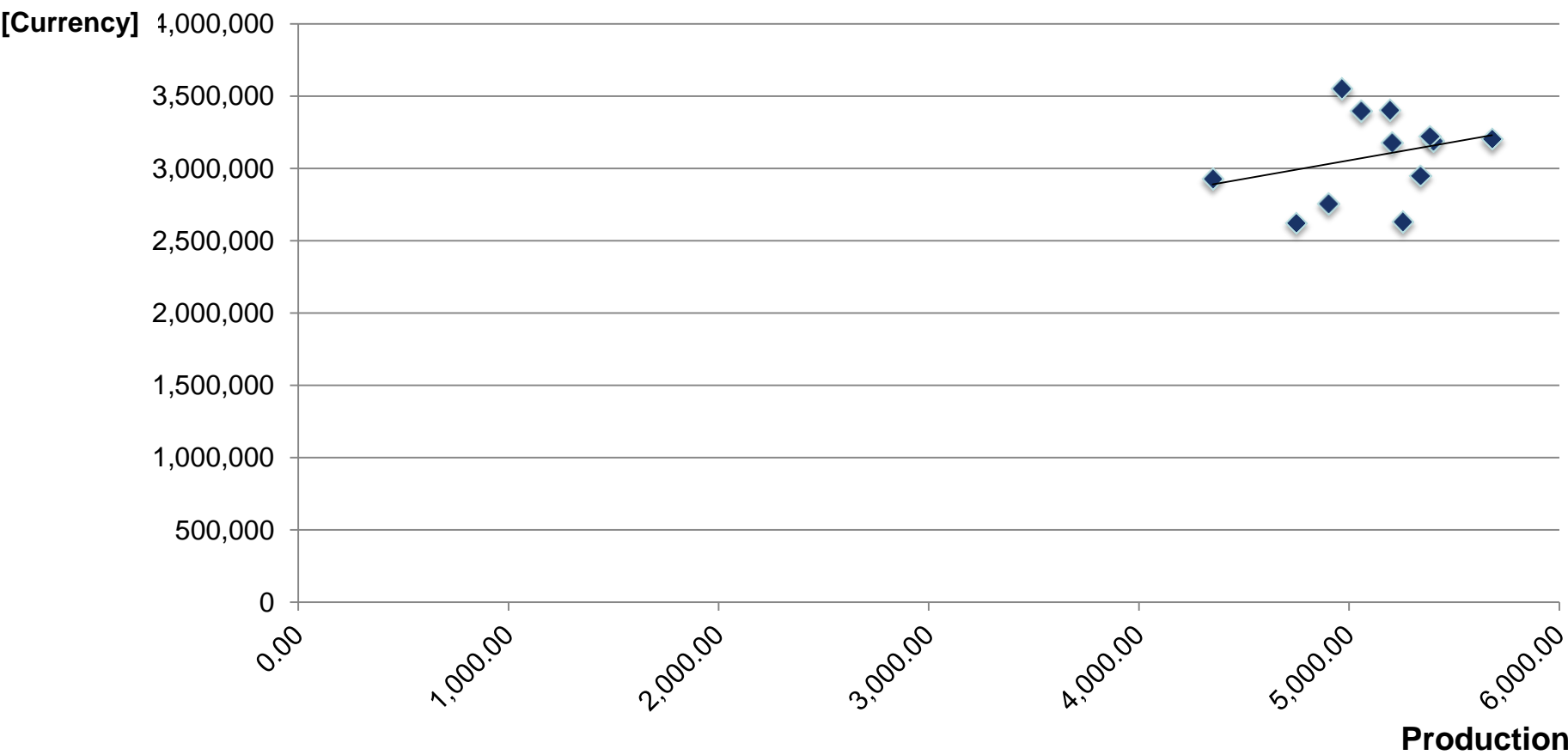
## Energy Consumption





# What can WE achieve?

## Energy Consumption



A decorative graphic consisting of three overlapping, stylized leaves or petals in shades of blue, green, and yellow, arranged in a circular pattern.

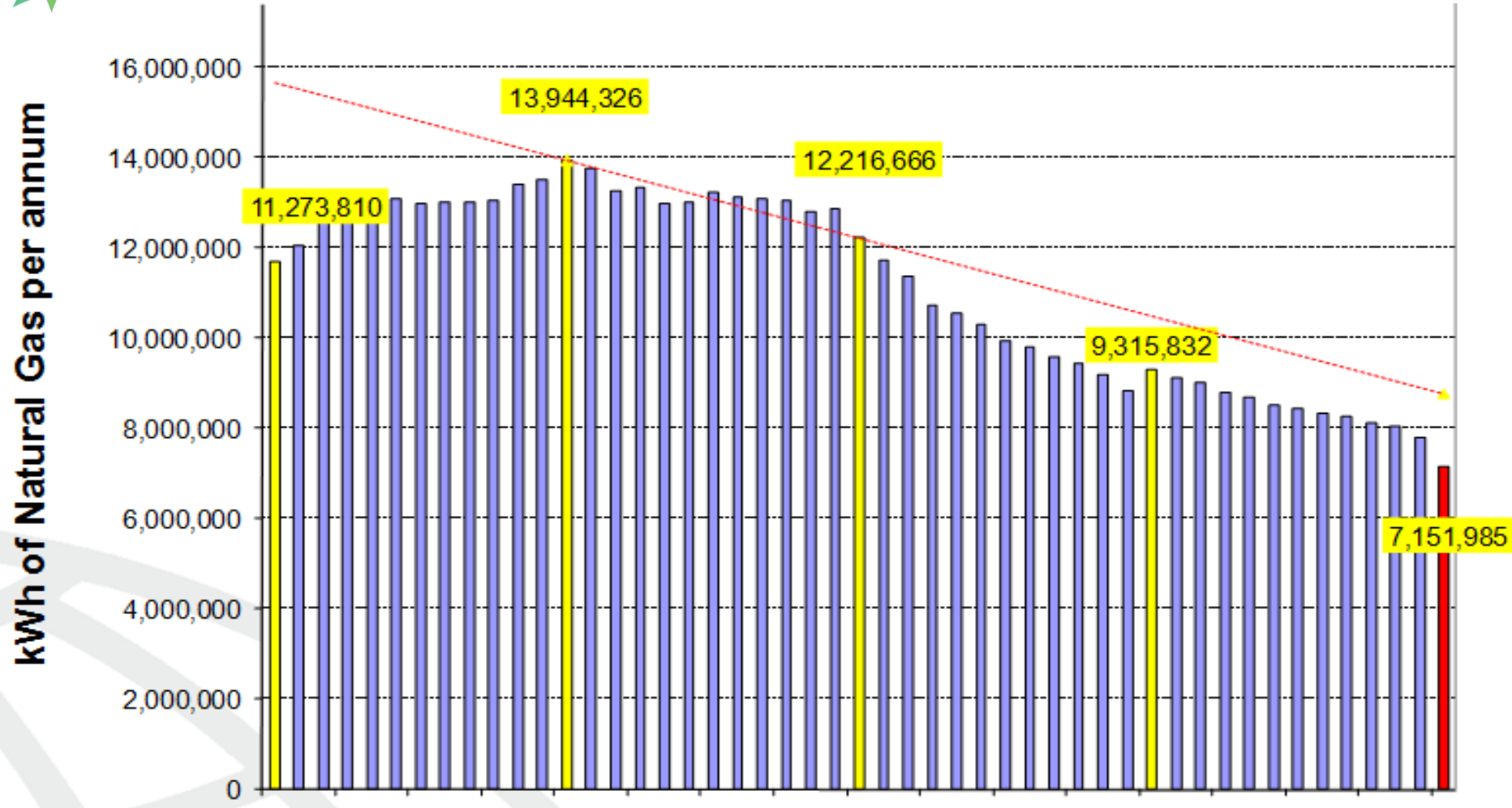
# What is energy management?

- ✓ It is how we propose to manage our use of energy!
- ✓ We want to be more systematic
- ✓ We will combine the following:
  - Behaviour change among all employees
  - Behaviour change among management
  - Objective use of data to show performance
  - Technical improvement
  - Low cost operation and maintenance of existing equipment



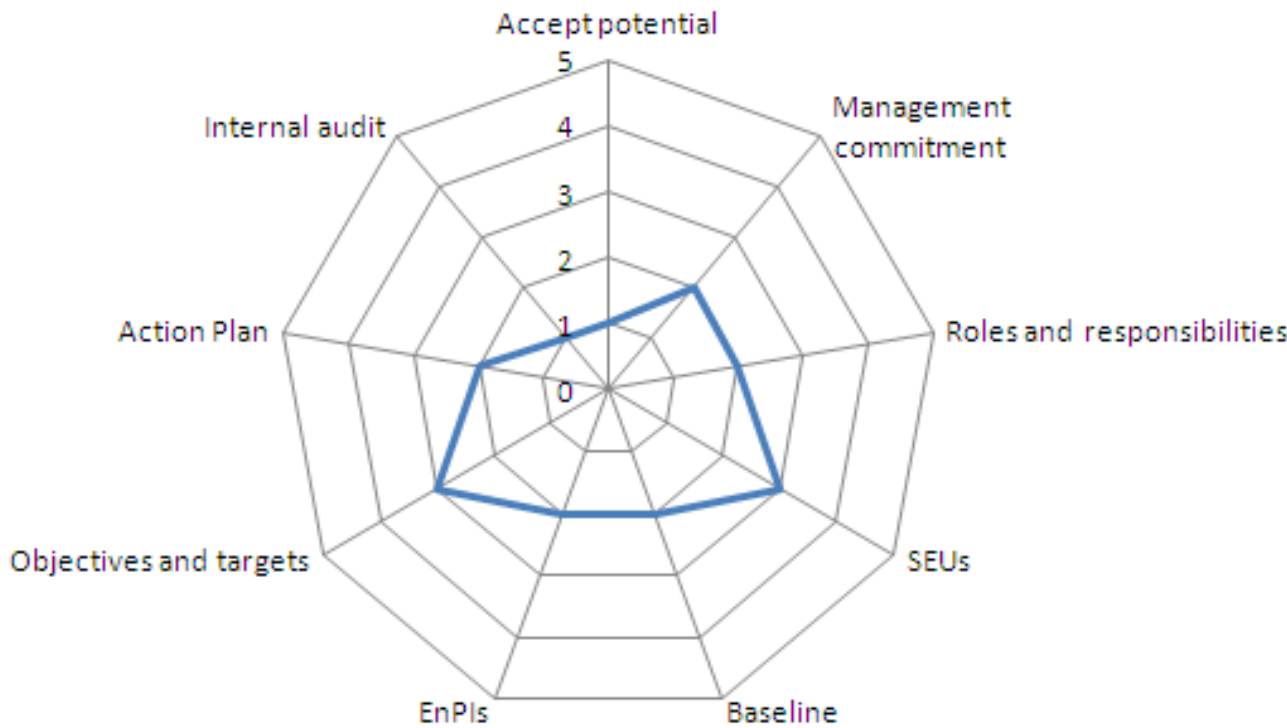


# What can be achieved?





# Our current level of energy management





## How does it work?

- ✓ Gain commitment
- ✓ Plan what actions to take
- ✓ Take the action
- ✓ Check that they are working
- ✓ Build more commitment



# What sort of actions will we take?

- ✓ Operation and maintenance initially
  - Fix leaks
  - Fix insulation
  - Switch off
  - Run optimum equipment
  - Optimum settings
  - Check controls
  - Training
  - Maintain improvements



## What do we do next?

- ✓ Make a decision to go ahead
- ✓ We do not need financial investment until **AFTER** we start to show savings
- ✓ Viable investment projects may follow later
- ✓ We do need management commitment to improve
  - Some staff need to help
  - Some staff need to change behaviour
  - Some staff need training