

# Energy Efficiency Clubs in eThekweni Municipality

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# Objectives of this presentation

- To provide a background to the project
- To give an overview of Energy Efficiency Clubs:
  - What is an Energy Efficiency Club?
  - What are the aims of the Club?
  - What are the roles of the various people?
  - What are the rules of the Club?
  - What training was given?
- Key Outcomes
- The Future

# Background to the Project

- Energy Strategy for eThekweni Municipality
- Targets for energy efficiency improvements, based on CO<sub>2</sub> reductions
- Detailed Action Plans for each sector
- Action Plan 10 (Industry Sector): Energy Efficiency Clubs
  - Pilot programme of 2 or 3 Clubs, expanding to wider roll-out in due course;
  - Club membership will comprise around 10 industries, usually from the same geographical location
- Danida funding secured through eThekweni Municipality for 2 pilot clubs

# What is an Energy Efficiency Club?

- A group of industries working together to reduce energy wastage and save money
- Promotes the exchange of experiences in implementing energy efficiency between industries
- Cross sectional / sector specific
- Meet on a regular basis
- Limited to 7 to 15 companies
- Initiated in UK in early 1990's as Waste Minimisation Clubs
- Started in SA in 1998, pilot Waste Minimisation Clubs in eThekweni
- EThekweni have piloted Energy Minimisation Clubs in South Africa

# Aims of the Energy Efficiency Clubs

- To make industry more profitable through energy efficiency
- To reduce pollution from industry
- To encourage communication between the local authority and industry
- To encourage exchange of information and experiences
- To kick-start Energy Strategy Action Plans for industry

# Energy Efficiency Club Structure

- Steering Group (Administrative)
  - Industrial Group Facilitators, Local Authority, Consultant.
- Consultant & Trainer (WSP Energy)
  - assist in scoping audits; provide energy efficiency training
- Facilitator (Susan Barclay cc)
  - Arrange meetings, venue
  - Organise guest speakers
  - Duplicate notes, disseminate results
- Project Champions
  - appointed within each company
- Project teams
  - selected by Project Champions

## Club 'Rules'

- Commitment to the club
  - Certificates
- Commitment to reducing energy wastage
- Attending all meetings and training sessions
- Set targets and review progress
- Provide cost of changes and savings
- Provide input reduction data

## Key Outcomes - 1

- Two clubs formed during March 2008
- Formulated as activities within existing fora:
  - Durban Automotive Cluster (Administrated by B&M Analysts)
  - Mariannhill Conservancy
- 12-month 'initial' phase, funded via Danida programme
- 8 meetings held for each club
- Industry feedback and information sharing
- Guest speakers included on agenda
- Technical Training
- Regular 'Homework' Tasks
- Site walk-through surveys by Consultants

# Technical Training

- Modular training approach
- Topics included:
  - Energy Management
  - Monitoring & Targeting
  - Compressed Air
  - Boilers
  - Steam distribution systems
  - Refrigeration
  - Lighting Systems
  - Electric Motors and Drives
- All with an emphasis on Energy Efficiency
- All training interactive with exercises and discussions

## Key Outcomes - 2

- Successful method of providing information and training on energy efficiency techniques to industry
- Allowed for interaction between different companies and allowed for the exchange of information and ideas
- Regular meetings ensured that energy efficiency was kept as a priority within the participating companies and maintained the momentum of energy efficiency projects
- The participating companies all identified and implemented energy efficiency projects which reduced energy consumption and saved money. Examples:
  - R220 saved in Q1 of 2009
  - 15% energy saving, 3 year payback
  - 5% energy saving, immediate payback
- All companies that participated in the clubs commented that it was beneficial both from a technical and social point of view

# The Future

- The majority of members would like to see the clubs continue in some form or another and this is being investigated
- Possibility of expanding the DAC participation with a second Club
- New Club proposal with the Durban Chemical Cluster
- Clubs to be self-funding
- Sustainable Solution
- Assist with meeting Objectives of eThekweni Energy Strategy
- Equally applicable elsewhere



**Thank You**



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