



## EUREM SOUTH AFRICA

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Southern African – German Chamber of Commerce & Industry

**BUILD YOUR CAPACITY FOR  
SUSTAINABLE ENERGY  
EFFICIENCY SOLUTIONS**

# EUREM SOUTH AFRICA 2014

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EUREM South Africa 2014

# ABOUT EUREM

## EUREM – EUROPEAN ENERGY MANAGER

Ambitious, standardised extra-occupational training programme and network for Energy Managers

Provided in 27 countries throughout the world

International EUREM consortium – headed by Industrial Chamber Nuernberg, Germany – monitors quality standards and develops the training further

EUREM triggers tangible results in the participating companies

The EUREM training is regarded as European standard qualification for energy managers

# ABOUT EUREM

## GOALS & TARGETS

**EUREM  
strives for..**

Qualification and  
training

Knowledge and  
technology  
transfer

Optimisation of  
energy  
consumption

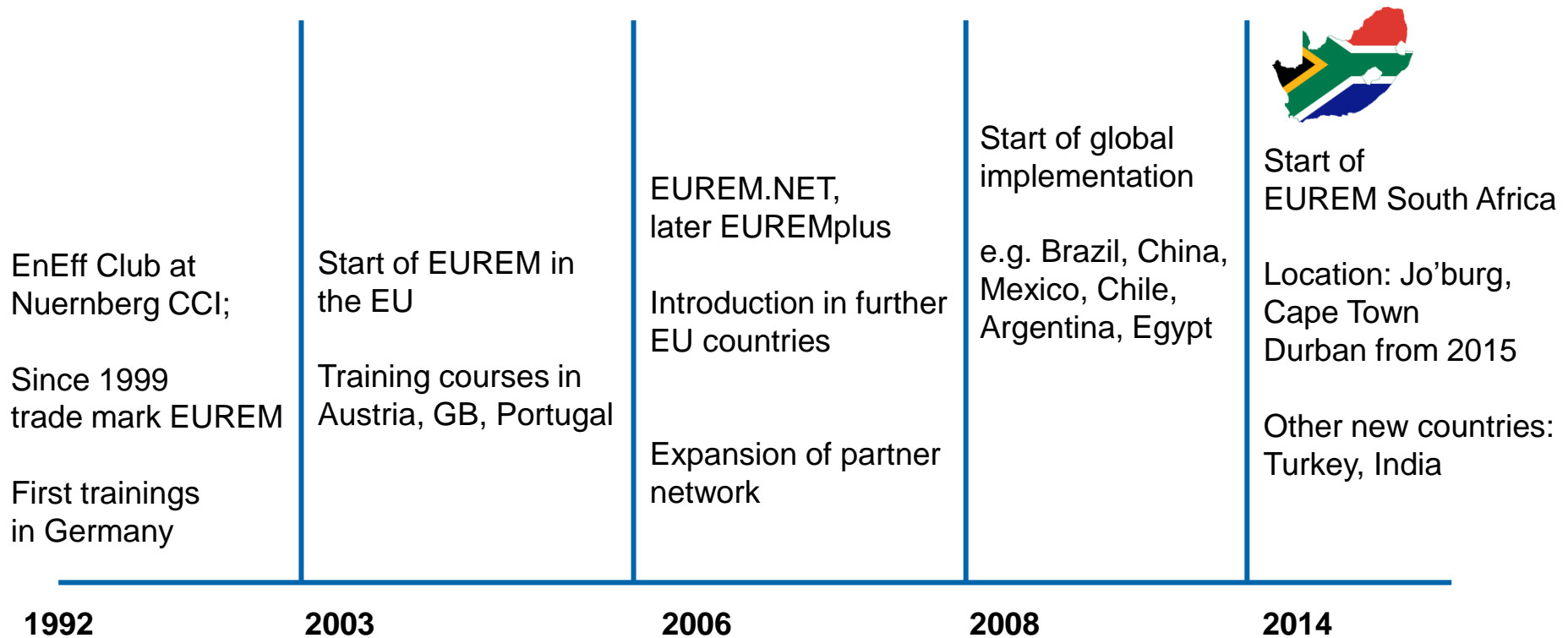
Cost reduction,  
improved  
competitiveness

Climate  
protection

Networking

# ABOUT EUREM

## EUREM DEVELOPMENT AND INTERNATIONALISATION



# ABOUT EUREM

## FACTS & FIGURES

Provided in 27 countries throughout the world

More than 3.000 Energy Managers trained – approx. 400 outside EU

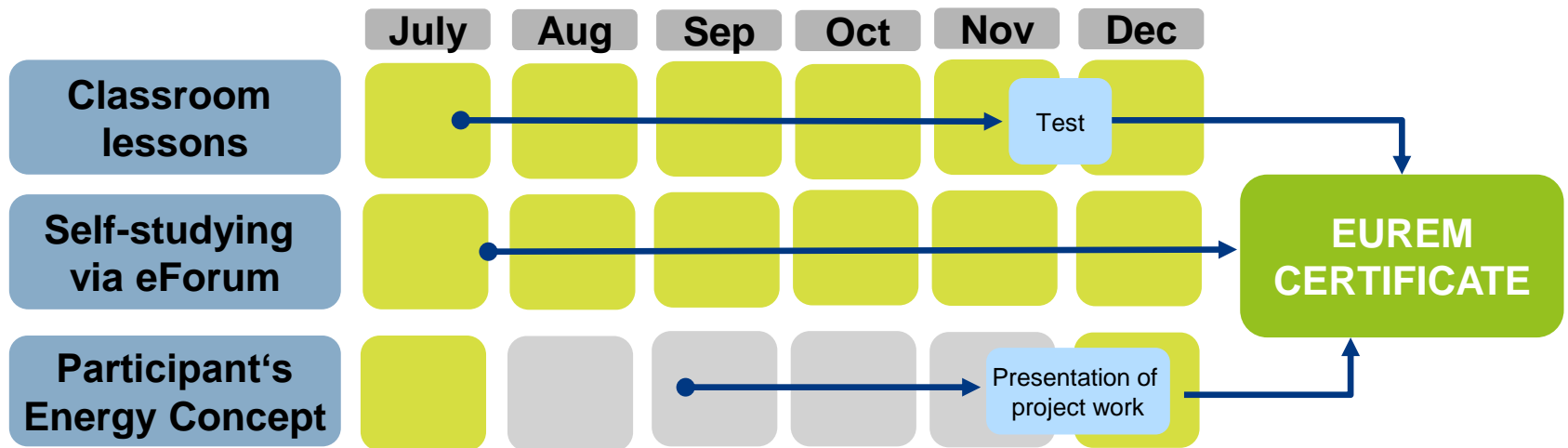
Tangible achievements of EUREM: 75% of energy concepts developed during training courses are implemented in the companies with following average results...

- ✓ Energy saving per project work: 750MWh/a
- ✓ Cost saving per project work: 30.000 EUR/a
- ✓ Payback of project work: 3-4 years
- ✓ CO2 savings per project work: 200 t/a

# ABOUT EUREM

## STEPS TO ATTAIN EUREM CERTIFICATE

Blended Learning Approach, combining teaching and practical application of new knowledge...



# ABOUT EUREM

## TARGET AUDIENCE – WHO SHOULD PARTICIPATE

- Plant and Production Managers
- Designated, appointed Energy Managers
- Process Engineers and Operation Technicians
- Facility and Maintenance Managers
- Consultants and Industrial Service Providers

...a technical background and education is strongly recommended



# BENEFITS - WHY TO PARTICIPATE IN EUREM

## COMPANY AND INDIVIDUAL BENEFITS OF EUREM

Exposure to latest, state-of-the-art EnEff technology and processes

Development of corporate and individual energy efficiency skills – higher value of human capital, motivation and support to employees

Capacity to cut power costs and optimise your energy consumption – increase your competitiveness

Energy concept: tailor-made energy saving measure for your company developed by your employee, almost ready for implementation – company's immediate ROI

Expertise to ensure continuous EnEff improvement – ideal preparation for introduction and further development of Energy Management (ISO 50001)

Contacts to technology and service providers and capacity to engage with them

Globally recognised personal certificate

Contribution to climate protection and reduction of carbon footprint

# EUREM SOUTH AFRICA 2014

## INTRODUCTION TO EUREM SOUTH AFRICA

EUREM in South Africa is implemented in the framework of the South African-German Energy Partnership

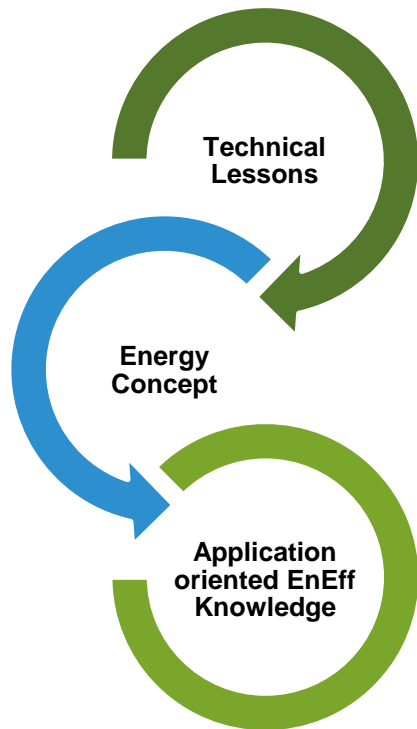
Responsible for implementation is the Competence Centre Sustainable Energy of the Southern African German Chamber of Commerce and Industry (SAGCC)

**Training locations** are **Johannesburg and Cape Town** - one training annually per location. Training in Durban will start in 2015.

Start of training in Johannesburg and Cape Town: 29. July 2014

**Participation fee for EUREM 2014 is R42.000 (excl. VAT) – SAGCC members will receive a discount of 5%**

## TRAINING STRUCTURE



### Lectures

9 modules with classroom lessons, 120 hours in total – possibility for self-study via e-Forum

Transfer of theoretic knowledge, introduction to new technology and processes, exercises and discussion

### Energy Concept

Participant develops a feasible energy efficiency project for his company – direct financial benefit for the company if implemented

Practical application of knowledge attained in the lectures with support by the trainer team

***Course result: Application-oriented EnEff capacity / knowledge and networks***

# EUREM SOUTH AFRICA 2014

## SOUTH AFRICAN COURSE MODULES & CONTENT

### 1. Energy Market (3 hours)

Regulatory framework and policies

### 2. Energy Fundamentals, Control Technologies (6 hours)

Basic of power engineering • Control and measuring technologies

### 3. Energy Management (21 hours)

Energy management system • Energy data management • Internal audits • Load management

### 4. Economics and Project Management (8 hours)

Economics of EnEff • Profitability assessment • Project development • Financing, incentive schemes

### 5. Electrical Applications (18 hours)

Electrical drives • Compressed air systems • Green IT • Pumps and water treatment

### 6. Energy Efficiency in Buildings (14 hours)

Building physics • Energy assessment • Energy efficient construction and renovation • Lighting

### 7. Climatisation (18 hours)

HVAC • Cooling technology

### 8. Energy and Heat Technologies (18 hours)

Cogeneration • Process heat • Bioenergy

### 9. Solar Technologies (14 hours)

Photovoltaic • Solar water heating • Solar process heat and cooling • Hybrid Systems

## TRAINER TEAM

Profound expertise in latest technology and economics of energy efficiency

Technology companies and individuals with industrial background

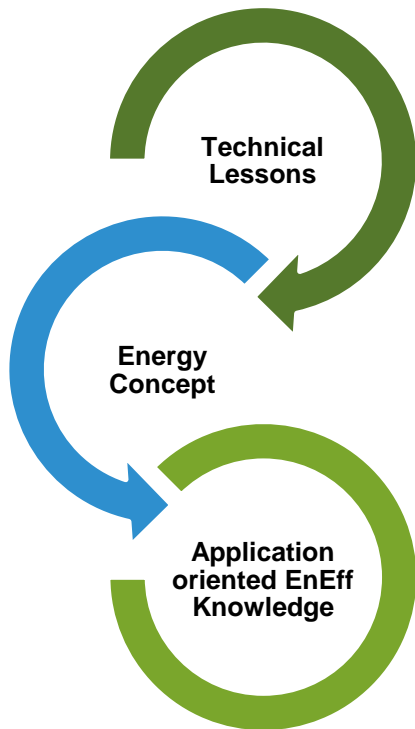
Knowledge in industrial energy efficiency project design and implementation

Experience in adult education and capacity building

Contacts to relevant suppliers, service providers and consultants

# EUREM SOUTH AFRICA 2014

## COURSE DETAILS - SUMMARY



160 lessons – each 45 minutes – 120 hours in total

Training locations: **Johannesburg and Cape Town**

Maximum of 20 participants per location

**Start of training course:** 29 July 2014

Last lesson: 13 November 2014

Lessons usually held Tuesday and Thursday from 05pm, 2-3 times block sessions on Friday and Saturday

**Development of Energy Concept:** September to November

**Written exam and presentation of Energy Concept:** end of November / first week of December



# EUREM South Africa

Built your capacities to react to changes in the energy market

For more information on  
EUREM South Africa and course  
registration contact:  
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SOUTHERN AFRICAN – GERMAN CHAMBER OF COMMERCE & INDUSTRY



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