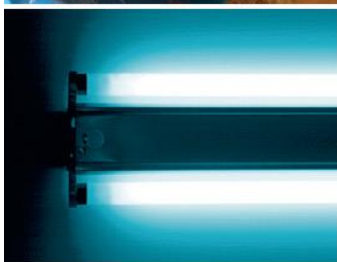


ZA.EUREM.NET



proud to save! - Training of Energy Managers



AHK

COMPETENCE CENTRE

**SUSTAINABLE
ENERGY**

Deutsche Industrie- und Handelskammer für das südliche Afrika
Southern African-German Chamber of Commerce and Industry

EUREM – European EnergyManager

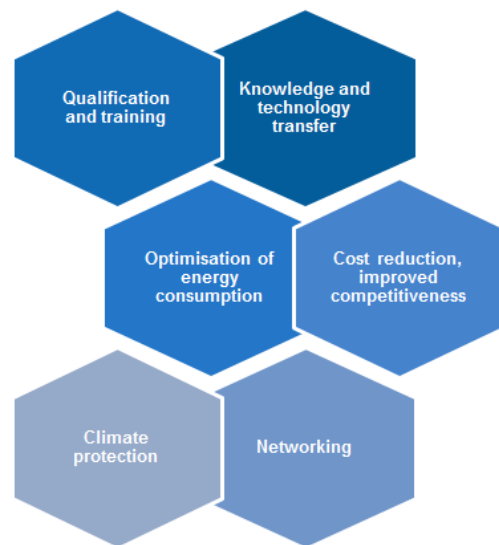
Build Your Capacity for Sustainable Energy Efficiency Solutions

What is EUREM?

The European Energy Manager – EUREM – is an extra-occupational, **standardised training programme** and **international network for Energy Managers**.

The EUREM training enhances the skills of technical practitioners in the field of energy management and energy efficiency improvement. The **training covers nearly all energy-relevant issues which can arise in manufacturing industries and companies**.

The EUREM initiative started in 1999 and is coordinated by the Nürnberg Chamber of Commerce, Germany. At present the EUREM is offered in 27 countries throughout the world and more than 3.500 Energy Managers have been trained.



Today, the European private sector regards the EUREM as standard qualification programme for their energy managers.

EUREM Network

Linking international Energy Managers is an important feature of EUREM. Participants worldwide are able to interact and exchange experiences through a web based social platform – the EUREM Network. The participants' access is permanent and available throughout the duration of the course as well as afterwards. Via the EUREM Network participants have access to the latest developments in energy efficiency engineering and can download training documents and tools.

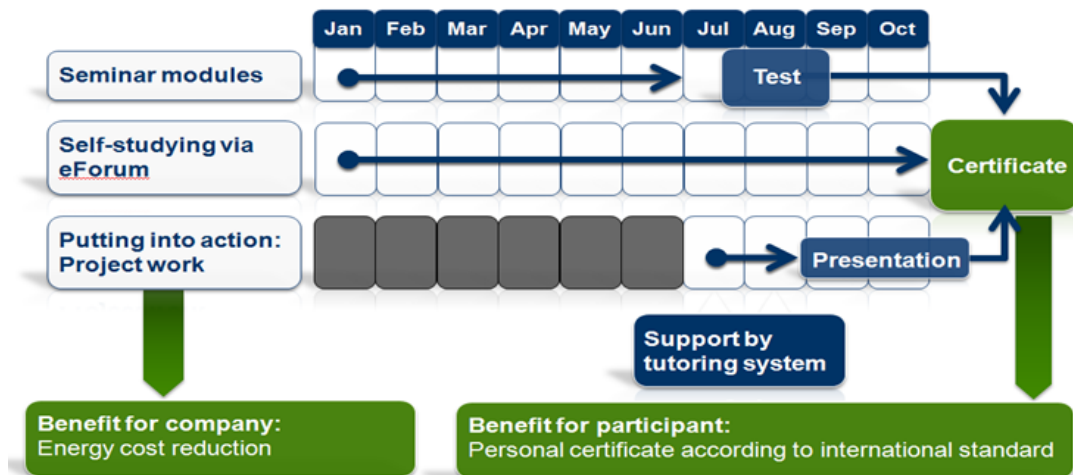
EUREM's Capacity Building Approach

The EUREM follows a **blended-learning approach**, combining transfer of knowledge and new technologies, exercises and interactive discussions with practical application of the newly attained knowledge. The training is usually held extra-occupational and consists of **classroom lessons** and a practical project work, the **company specific energy concept**.

Besides classroom lessons, **the energy concept** is the key element of the practical EUREM training. Each participant develops a feasible energy efficiency project which tackles energetic weak points of the participant's company with a high chance of realisation. Thus the newly attained knowledge is directly applied in practice. This approach leads to **application-oriented energy efficiency capacity and tangible results** in the participating company.

[illegible]

Steps to attain international EUREM Certificate



Why participate in EUREM – your benefits

The **EUREM leads to tangible results in the participating companies**. About 75% of all Energy concepts developed during the worldwide EUREM trainings have been implemented. This has led to average annual cost savings of 30.000 EUR for each participating companies. Amongst others your benefits of EUREM include:

- 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 2015

EUREM in South Africa is implemented in the framework of the South African-German Energy Partnership. The Competence Centre Sustainable Energy of the Southern African German Chamber of Commerce and Industry (SAGCC) is responsible for the introduction of EUREM in South Africa.

Target Audience – who should participate

The **target group for the EUREM training are companies' technical staff and executives** as well as energy service providers:

- 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

Locations and timeframe

EUREM 2015 **training courses will be offered in Johannesburg, Cape Town and Durban from May to November 2015**. Classroom lessons are usually held on Friday and Saturday 09:00 to 16:00 with some lessons on Thursday. Exams and the presentation of the energy concepts are foreseen for the end of November. This leads to an **effective time load of about one weekend per month** concerning the classroom lesson.

The **maximum number of participants per location is 15** to allow group interaction and ensure that participant's individual interests and questions can be addressed adequately.

Learning Targets and Course Content and Structure

EUREM participants will attain the **necessary skills to optimise the energy consumption in their company**, including...

- how to analyse the energy situation in the company
- technical know-how to identify energy efficiency opportunities
- how to sell the project to top management
- project planning, implementation and coordination
- how to evaluate and guarantee the targeted savings
- how to ensure continuous energy improvements

The EUREM South Africa consists of 145 teaching units (109 clock hours) in 8 technical and management modules. In addition **each participant has to develop its energy concept** (input approx. 80 teaching units) supported by the trainer team.

	Thursday	Friday	Saturday
I. Energy Fundamentals		1.1 Basic Power Engineering (3h) 1.2 Control & Measuring Technologies (3h)	
II. Energy Economics		2.1 Energy Market (3h)	2.2 Energy Efficiency Economics (6h)
III. Energy Management	3.1 Energy Management Systems (6h)	3.2 Energy Data Management (6h)	3.3 Load Management (3h) 3.4 Change and Project Management (3h)
IV. Efficient Buildings	3.5 Internal Audits (3h)	4. Energy Efficiency in Buildings and Lighting (7h)	4. Energy Efficiency in Buildings and Lighting (7h)
V. HVAC and Cooling		5. Heating, Ventilation, AC and Cooling (7h)	5. Heating, Ventilation, AC and Cooling (7h)
VI. Electrical Applications	6.3 Green ICT (3h)	6.1 Electric Drives and Motor Efficiency (6h)	6.2 Efficiency of Compressed Air Systems (6h)
VII. Energy and Heat Technology		7.1 Cogeneration (6h)	7.2 Process Heat (6h)
VIII. Solar Energy Technologies	7.3 Bioenergy: Biomass and Biogas (6h)	8.1 Photovoltaic and Solar Hybrid Systems (6h)	8.2 Solar Heating, Cooling and Process Heat (6h)

EUREM Trainer Team

The EUREM South Africa trainer team consist of technology companies and individuals with industrial background having...

- Profound expertise in latest technological developments
- Applied knowledge in energy efficiency project design and implementation
- Experience in adult education and capacity building
- Contacts to relevant suppliers, service providers and consultants

Including...

...T...Systems...

C&E CARBON & ENERGY AFRICA

Anaergia

SOLARWORLD
REAL VALUE

steag

www.steag.co.za

REACH
renewable

INDUSTRIAL SOLAR
thermal solutions

CS INSTRUMENTS (PTY) LTD

Participation fee

As a South African-German Energy Partnership project the **EUREM is implemented on a not-for-profit basis**. However, a Participation Fee applies in order to facilitate the high-level training.

The **Participation Fee for EUREM 2015 is R42.000** (excl. VAT), payable upon registration. Southern African-German Chamber of Commerce and Industry members are entitled to a discount of 5%.

Paying the fee and participating in the EUREM training will provide you with permanent access to:

- 145 units of technical and management lessons
- permanent access to regularly updated training material and information on latest developments in industrial energy efficiency
- practical, comprehensive calculation tools for energy efficiency measures
- Coaching by the trainer team in the development of a tailor-made energy saving project
- international EUREM community – platform for knowledge exchange and ideas for industrial energy efficiency

Further information and registration

For further information on the EUREM and/or registration for the 2015 training, please visit za.eurem.net or contact:

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021 418 3311

Competence Centre Sustainable Energy

Southern African – German Chamber of Commerce & Industry