



Energy Efficiency

Manage energy consumption through better processing and implementation strategies



19 OCT
2010

PARK PLAZA
VICTORIA
AMSTERDAM

CONFERENCE HIGHLIGHTS

- Find ways to reduce your energy consumption with no or minimum capex
- Exclusive update from the European Commission on the new energy action plan
- What will be the impact of new crude oil types on energy efficiency?
- Installing advanced energy performance monitoring systems
- Fouling and corrosion control measures to reduce emissions and increase efficiency
- Case studies on project implementation
- Understand how to develop an energy and CO2 reduction project portfolio
- Close the gaps in energy efficiency: Operation, design, technology
- Evaluate the best technologies to lower energy consumption
- Benchmark your energy costs against your peers

Amsterdam

REGISTER ONLINE AT www.gtforum.com/energy-efficiency



Welcome

ERTC is proud to present the inaugural **Energy Efficiency** conference. It has become increasingly important for the refining industry to manage its energy usage and environmental responsibilities. With this in mind, we have developed a new ERTC conference that will examine this critical area and offer you solutions to tackle the challenges you face.

We will explore the various ways plants can achieve higher profitability through better energy management. Some of the issues we will cover include:

- How to plan for the most efficient plant cycles
- In-depth analysis on how much energy plants use
- Benchmarking across locations, refinery configurations and product demand
- Technical issues in energy conservation within refinery processing
- Technologies that aid energy efficiency for capex and non-capex projects
- Plus, lots of case studies



The 2010 board of advisors is your guarantee that every presentation delivers fresh thinking on innovation and new technologies in this growing area. Our members are:

Ernst Worrell, UTRECHT UNIVERSITY; László Lázár, MOL REFINING; Esa Tamminen, NESTE OIL; Georg Sipos, OMV



Who you will meet

From refineries:

- General managers
- Plant managers
- Energy efficiency managers
- Corporate and downstream strategy
- Operations managers
- Technologists
- HSE personnel
- Environment and CO2 personnel

Plus:

**Technology and service providers
Industry consultants and analysts**

To register: E: conf@gtforum.com T: +44 (0)870 240 8859
www.gtforum.com/energy-efficiency F: +44 (0)20 7504 3730

MORNING	
08.30	Registration
09.00	Opening remarks
09.10	Keynote address Increase the implementability of your energy projects <ul style="list-style-type: none"> • Energy efficiency as a cost and environmental concern • What is needed to create an energy focused organisation and how the transition can be effectively made • Overcoming obstacles to effective implementability KBC
09.40	How to save 20% through energy efficiency <ul style="list-style-type: none"> • Evaluating not only a production plant itself, but also all the raw materials and energy needed for production together with the logistics up to the factory gate • Ecological criterion for assessing production processes and investment and technology projects • Bayer Climate Check identifies energy savings up to 20% in production processes and includes priority measures on how to achieve these potentials BAYER TECHNOLOGY SERVICES
10.10	Keynote address Rigorous modelling of refinery crude preheat trains <ul style="list-style-type: none"> • Rigorous simulation of complex integrated heat exchanger networks • Assessing energy savings and/or capacity increase • How design ideas can be easily and accurately verified in feasibility project • Benefits from models in revamp project execution NESTE JACOBS OY
10.40	Coffee break
11.10	The importance of strategic energy management: lessons learnt <ul style="list-style-type: none"> • Challenges for refineries and increase of energy use • Meeting reality – higher cost, climate change, EU ETS • Strategic energy management • Opportunities for energy efficiency improvements UTRECHT UNIVERSITY
11.40	Developing an energy/CO2 reduction project portfolio from low to high cost and developing an implementation strategy <ul style="list-style-type: none"> • Addressing the three gaps: operation performance gap, design gap, technology gap • Spending minimum capital in achieving the energy/CO2 reduction target • Benchmarking against the industry UOP
12.10	Lunch

AFTERNOON	
13.10	Lunch keynote address Impact on refineries from the upcoming energy action plan and the decarbonisation initiatives of the Union <ul style="list-style-type: none"> • The implementation of the energy and climate package • International climate negotiations – will the EU go to -30% emissions? • The new energy (efficiency) action plan • Biofuels, decarbonising transport and the economy EUROPEAN COMMISSION
13.40	Benefits of an advanced energy performance monitoring system (EMS) <ul style="list-style-type: none"> • Implementing an advanced energy management system • Closed energy balances (oil, gas, steam, electricity, flare etc.) for equipment, units and the whole site to closely monitor where energy is consumed • Heat transfer coefficients of heat exchangers and efficiencies of turbines • Rigorous monitoring of CO2 and SO2 emissions • Straightforward detection of energy losses • Overall improvement of the Solomon Energy Intensity index BELSIM
14.10	Maximising the thermal and operational efficiency of the radiant section of refinery process furnaces and boilers through the use of ceramic coatings <ul style="list-style-type: none"> • Increasing the absorbed duty capability of the ceramic-coated radiant section • Maximising the operational (production) and thermal efficiencies of the process furnace or boiler • Case studies of field applications C&M TECHNOLOGIES
14.40	Energy and emissions management at Naphtachimie petrochemical site <ul style="list-style-type: none"> • Developing and implementing an energy management system (Visual MESA) • NOx/SO2 emissions modelling and management SOTEICA
15.10	Coffee break
15.40	Role of refineries in the global CCS investment programme <ul style="list-style-type: none"> • CCS value chain – Best practices for capture, transmission and storage of CO2 • Legislative, environmental and social issues driving the programme Speaker to be confirmed, visit website for updates
16.10	Fouling and corrosion control measures improve refinery fuel efficiency and reduce emissions <ul style="list-style-type: none"> • How a heavy fuel treatment program can reduce high-temperature fouling and corrosion in fired boiler tubes • How fouling and coking in heater tubes can be controlled and reduced • Case studies BAKER HUGHES
16.40	Improving energy efficiency within refining processes – a process licensor's view AXENS
17.10	Closing remarks
17.20	End of conference

Sponsorship opportunities

To find out how your organisation can benefit from sponsoring the **ERTC Energy Efficiency** conference please contact:

Matthew Whitfield

Telephone: +44 (0)20 7968 4607

Email: matthew.whitfield@gtforum.com

Reservation Form

Promo code: DM1



ERTC Energy Efficiency Conference

4547/10

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Accommodation

To make a reservation at the Park Plaza, please contact the hotel directly. Alternatively, please refer to our website for other accommodation suggestions.

I have read and agree to the terms and conditions below

Signature Date

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