



Industrial Energy Efficiency Accelerator in the Metalforming sector

The Carbon Trust is working with CBM to deliver a step change reduction in CO₂ from metalforming processes by accelerating innovation in process control and the uptake of low carbon technologies.

Industry and Climate Change

Industrial CO₂ emissions account for around 25% of the UK total. The Carbon Trust has been working with industry since 2001 to identify opportunities for carbon savings. In many medium-scale industrial sectors, the majority of energy use is in complex, sector-specific processes, where there are significant untapped opportunities for carbon saving.

Approach

There are three stages of work with each industry sector in the Industrial Energy Efficiency Accelerator. The aim of **Stage 1** is to investigate sector specific manufacturing processes, in each sector building a detailed picture of process energy use. This is based on information from process operators, equipment manufacturers and robust sub-meter data from equipment in use at a representative group of sites. This leads to identification of practical, cost-effective carbon saving solutions, typically in three areas:

- Innovation in Process Control
- Product Strategy Innovation
- Innovative Equipment

To date, we have identified opportunities in Stage 1 which could save an average of 28% annual CO₂ emissions per sector.

The aim of **Stage 2** is to build a business case for each sector to implement the carbon saving opportunities identified in Stage 1, by undertaking focused research or demonstration projects. Companies in each sector, equipment suppliers, technology developers and other stakeholders are all invited to propose projects which will lead to sector wide implementation of the opportunities. This could include full-scale demonstration, lab-scale research, technology transfer and optimisation or something else specific to addressing the barriers to implementation for the sector in question.

The aim of **Stage 3** is to replicate the solutions successfully demonstrated in stage 2, more widely across each industry sector. This will include embedding the knowledge gained with energy managers in each industry, in partnership with the relevant trade associations. On site workshops and events and detailed case studies are just a few of the activities undertaken with each sector.



Confederation of British Metalforming Associated Bodies:



Fastener Engineering and Research Association
www.fera.org.uk



www.metalforminginstitute.org

UK: Nissan plant marks Juke production start



Nissan's Sunderland plant in north east England recently celebrated the production launch of the new Juke compact sports crossover.

The model looks set to continue the success of the larger Qashqai which attracted waiting lists that lasted some considerable time. Nissan has already received over 22,500 pre-orders across Europe since the Juke 'books' opened in June.

The plant expects to produce up to 100,000 units each year making it the plant's second highest volume model behind the larger crossover.

The Note and seven seat Qashqai +2 complete the plant's current model line-up for now but the Leaf electric car is confirmed for production from early 2013 as is an adjacent battery plant to supply it.

Nissan spent GBP57m (US\$88m) on the factory to prepare it for the Juke. The model replaces the Micra - now built in Thailand and India with two more sources to come on stream - and safeguards 1,100 jobs directly at the plant and an estimated 2,000 additional posts at suppliers. A GBP6.2m grant for business investment from the UK government also supported the project.

Nissan is hoping the plant will build 400,000 units in the 2010 financial year which would be a record.

Nissan Europe manufacturing chief Trevor Mann said: "Congratulations to the Sunderland workforce for earning the right to produce what is their sixth new model in eight years. I would also like to thank both national and local government for their support, as well as the continued efforts of our all our suppliers."

Sunderland will ramp up to full Juke volume in a plant record of two weeks; ensuring European dealers are fully stocked and ready for the car's start of sales in late September.

Nissan hopes new Juke crossover will be as successful as big brother Qashqai

The majority of vehicles produced in Sunderland will be exported to mainland Europe with the remainder destined for dealers across the UK and Ireland. One version comes from Nissan's plant in Oppama, Japan, which is also producing the line for domestic, the US and other export markets. The Qashqai was initially made only in the UK but was so successful lines had to be opened in Japan and China.

Sunderland production began in 1986 with the Stanza-based Bluebird and Nissan has spent GBP2.68bn there to date. The unit count so far is 5.6m and 338,000 cars were made in 2009. The 4,900 employees assembled one in three cars made in the UK last year and the factory is both the country's largest car producer and exporter.

www.nissan.co.uk

Ultra-low incentive.....

The Government will provide an incentive of up to £5000 for motorists purchasing an ultra-low carbon car. The scheme will begin on January 2011 and will be open to both private and fleet buyers. It is expected to reduce the up front costs of ultra-low carbon cars by 25 per cent. The incentive has been confirmed prior to the completion of the spending review in October in order to provide more certainty for investors and manufacturers of ultra-low carbon cars.

Speaking at a demonstration of ultra-low carbon vehicles at the SMMT in London, Business Minister **Mark Prisk** said: "The consumer incentive will help Britain become one of the leading centres for the design, development and manufacture of ultra-low carbon vehicles. It sits alongside public and private sector investment in innovation and infrastructure, leading to the creation of new highly skilled low carbon jobs."

The criteria for eligible vehicles will be published shortly on the **Office for Low Emission Vehicles (OLEV)** website.

www.dft.gov.uk/olev/



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Stricter rules on industrial emissions

Clearer rules and cleaner air are among the aims of the Industrial Emissions Directive approved by the European Parliament in July. Stricter limits will apply for air pollution for example, although Member States will have some flexibility to extend deadlines for power plants or waive the rules for other installations in special cases.

The Industrial Emissions Directive aims to improve health and environment protection, while making the rules clearer and easier to implement. It updates and merges seven pieces of existing legislation, including directives on large combustion plants and Integrated Pollution Prevention and Control (IPPC), the latter covering around 52,000 industrial and agricultural installations with a high pollution potential, from refineries to pig farms.

After Parliament overwhelmingly approved an agreement reached with Council, Holger Kraemer (ALDE, DE), the MEP responsible for guiding the legislation through Parliament, commented: "After more than two years of difficult negotiations we have a compromise that will help to improve the implementation of the directive. Compared to the current situation, this offers more clarity and a better chance of a level playing field across Europe on environmental requirements for industrial installations."

Air pollution targets: extra time for some power stations

Nitrogen oxides, sulphur dioxide and dust can be a major health or environmental hazard, contributing for example to cancer, asthma and acid rain. Stricter limits on these emissions will be introduced from 2016. MEPs ultimately agreed that Member States can use 'transitional national plans' to allow large combustion plants (including fossil fuel power stations) up to July 2020 to meet the rules. Some older plants may not have to meet the

targets, as long as they close by the end of 2023 or 17,500 operating hours after 2016, whichever happens first. Newer power stations must still meet the 2012 deadline that applies to them.

Holger Kraemer added: "It is a European tragedy that a number of outdated coal-fired power plants will be allowed to pollute for another decade. This is also grossly unfair on the Member States who took early action to meet the requirements."

Optimising environmental performance

To receive a permit, installations covered by IPPC rules must apply "best available techniques" (BATs) to optimise their all-round environmental performance. Emissions to air, soil or water, as well as noise and safety are all considered.

Member States will have some leeway to ease the normal rules, as long as a high standard of overall environmental protection is maintained. However, at the insistence of MEPs, it must also be proved that costs would be disproportionate compared to environmental benefits, due to technical reasons or local circumstances. Assessments must be provided to ensure the rules are not being circumvented without good justification.

Next steps

Parliament has given its seal of approval to the second reading agreement that was reached with Council. The Council will also need to officially rubber stamp the text, after which Member States will be required to apply the directive in their national legislation.

Source: Energy Online Team

Marking of origin of imported fasteners to become mandatory?



The EU has become active on the question of imposing mandatory country of origin indication on fasteners coming into the EU from non-EU nations. EIFI has circulated EU committee documents showing the recommendations that have been made. All fastener products classified CN7318 would be affected if the proposal is adopted.

The proposals are made for the benefit of EU fastener consumers, so that they can know the social, environmental and likely quality framework under which the imported products are manufactured.

CBM's European lobbyist, Orgalime, has recommended that manufacturers should consider what the consequences may be of such a change in legislation, so that objections can be raised if necessary.

Several member nations in EIFI are in favour of this change, but if any CBM member has an opinion about this subject that you believe should be considered, or if you would like to see the original EU documents, please contact john.newnham@britishmetalforming.com.

EDF steps up nuclear build project

Nuclear project: EDF invited hundreds of firms to find out how they can participate in the UK's biggest construction project for decades.

French energy giant EDF will shortly start ramping up its £20 billion nuclear build programme in Britain by inviting hundreds of potential suppliers to a recent summit meeting in London.

Already 40 contracts worth tens of millions of pounds have been placed for work on four nuclear reactors at Hinkley Point in Somerset and Sizewell in Suffolk. But preparations are under way that will lead to the tendering of 150 major contracts worth billions of pounds.

About 650 firms were invited to the Queen Elizabeth II Conference Centre, in central London, on September 13 to hear how they can take part in Britain's largest construction project for decades. There have already been two supplier days in Suffolk and Somerset that were heavily over-subscribed.

More than 6,000 workers will be employed to build the reactors. The first power station at Hinkley Point, Somerset, is expected to be completed by early 2018.

Alan Cumming, EDF Energy's Head of Procurement for Nuclear New Build said: "It has been 20 years since a new nuclear plant was built in this country."



Consultation launched on right to request time to train

John Hayes has today launched a consultation on the future of the right to request time to train.

The legal right for workers in businesses with more than 250 employees to request time to take up relevant training came into effect from April 6 this year.

The Government has announced a review of all regulations in a bid to reduce burdens on business. This consultation aims to gather opinions on the right to request time to train and will feed in to the review.

The Department for Business, Innovation and Skills is interested in hearing views on the regulation from employees, businesses and other interested parties.

Further Education, Skills and Lifelong Learning Minister, John Hayes, said:

"Before we make any decisions about the future of the right to request time to train, it is important that we gauge views of the regulation and whether it is improving training opportunities for employees.

"We believe it is important that all regulations are properly scrutinised and we are therefore interested in hearing views on the future of this right and its role in promoting training in the workplace, which I see as vital to our economic success.

"I have asked my officials to ensure that this consultation is actively promoted to ensure that we get a broad range of views."

This consultation will be shorter than the normal 12 weeks and will close on September 15. The shorter consultation period will allow all representations to be made before the September 17 deadline for submissions to the next meeting of the Reducing Regulation Committee.

CBM events diary

- CBM Fastener sector meeting - 22 September 2010**
 Fastener sector meetings provide members and associates with the opportunity to meet and talk to senior managers and directors from other similar manufacturing companies, and at the same time receive presentations on topics of current interest.
- AMB Stuttgart 2010 - 28 September - 2 October 2010**
 Exhibition for metal working with over 85,000 visitors and 1,300 exhibitors.
- CBM Forging Group Meeting - 29 September 2010**
 Forging Sector meetings provide members and associates with the opportunity to meet and talk to senior managers and directors from other similar manufacturing companies, and at the same time receive presentations on topics of current interest.
- CBM Executive Board Meeting - 05 October 2010**
- CBM H, S & E Group Meeting - 14 October 2010**
 The CBM H,S,&E Group meet quarterly to discuss relevant H&S issues. The recent Accident Reduction in Metalforming Sector (ARMS) initiative has embarked on a strategy to reduce the accidents in the sector and subsequently reduce insurance premia.
- Teach-In Seminar - 20 October 2010**
 Following submissions for the Medal Award, entrants will be invited to make a presentation about their entry. The medal will also be awarded at this session.
- EuroBLECH 2010 - 26 - 30 October 2010**
 The 21st International Technology Exhibition for sheet metal working, Hanover, Germany.
- MIDEST - 2 - 5 November 2010**
 MIDEST is the key platform for international suppliers of industrial subcontracting. It is a show where partnerships are forged and technology surveyed, offering manufacturers, component suppliers and assemblers the chance of face to face meetings with suppliers of solutions in the fields of metals, plastics, electronics or industry services.
- BLECH Russia 2011 - 15 - 17 March 2011**
 Exhibition for sheet metal working, Russia.
- BLECH India 2011 - 14 - 17 April 2011**
 Exhibition for sheet metal working, India.
- 12th International Cold Forging Congress (12 ICFC) - 19 May 2011**
 The 12th ICFC will be held in Fellbach, Germany. On behalf of the ICFC the ICFC 2011 will be organized by the Institute for Metal Forming Technology of Stuttgart University.
- BLECH Nordic 2011 - 4 - 7 October 2011**
 Exhibition for sheet metal working, Sweden.

All events are held at the CBM Headquarters, National Metalforming Centre, West Bromwich B70 6PY unless otherwise stated.
 For further information or to book a place please visit www.britishmetalforming.com

Tool wear & failure



The CBM in association with Robert Zapp and Fuchs Lubricants is convening a tool failure workshop on 7th October. This will be a hands-on experience. Delegates will be looking at artifacts and taken through a decision making process to determine failure diagnosis. Jurgen Koppershaus will be supplementing the discussion with practical technical guidance.

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| When & Where? | National Metalforming Centre
11 October 2010
11.00 start, 12.30 lunch, 14.30 finish |
| How much does it cost? | £30 inc VAT for CBM members,
£116.33 inc VAT for others |
| Who should attend? | Toolmakers, Heat treatment specialists, Machinists, Workshop managers, Production managers, Tooling specifiers and designers, Modeling engineers. |
| What will you take away? | Improved materials knowledge
Improved understanding of tool failure modes
Better knowledge of process sensitivity
Design changes to improve performance
Guidance on lubricant condition monitoring
A practical "do & don't" guide. |
| How do I register my interest? | email alan.arthur@britishmetalforming.com |
- The Technical Applications Engineer at Robert Zapp, Jurgen Koppershaus, draws on a wealth of experience and knowledge to draw some interesting and informative conclusions. The presentation by Fuchs will focus on reducing tool costs for cold heading by oil condition monitoring.
- For further information or to book a place please go to events section at www.britishmetalforming.com**



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We deliver a wide range of technical training courses, including bespoke services, for the UK metals and manufacturing industry.

The following courses will be held at the National Metal Forming Centre in West Bromich

16th & 17 th November
Metallurgy for Non Metallurgists

8th & 9th December
Heat Treatment for Professionals

For further information please visit
www.namtec.co.uk
or email : skills@namtec.co.uk



Agency Workers Directive (AWD) 2010 ROADSHOWS

We are sure that you are aware of the forthcoming Agency Worker Directive commencing October 2011, but may not be aware of the implications that it may have on your day-to-day business and dealings with your Agency Staff supplier.



Pertemps are holding a number of seminars across the UK in conjunction with a leading firm of Employment Law Specialists with a view to giving companies a better understanding of the practical implications of Employment Law.

To find out details of a seminar in your area or request an information booklet please call Jobs@Pertemps Freephone 0800 0723191 quoting reference WH/AWD.

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