

CEMENT PERFORMANCE REVIEW

QUARTER 1 2009

INSIDE THIS ISSUE:

FUEL CONSUMPTION ESTIMATOR	2
RIYADH CEMENT	2
HOME AND AWAY	2
STIMATOR CONTINUED	3

GATWICK 2009—SIGN UP NOW

Once again it is the time of the year where we are making the final preparations for the annual **CPI** Gatwick training course and to remind you that if you haven't already booked then it is still not too late.

Following feedback from last year we have extended the course to five days to allow the participants to spend more time between each presentation to discuss the content with the presenters and raise any specific topics for group discussions, as well as spend additional time on the course work that runs through the week.

The reason for having the course in the UK close to the **CPI** main offices is so that we can maximize on the number of presenters that we can use, and this year the presenters will be Andrew Rogers, John Scott, Chris Holt, Murray Hislop, Brian Trill and Arthur Harrison—and maybe a guest appearance by the author of this newsletter. If you need to find out more about any of the presenters then please have a look at the personal profiles on the **CPI** website.

The course also has some new subjects such as clinker microscopy and the latest advances in analyzer technologies. As usual the focus of the course is on profitability and performance of cement plants and it goes without saying that the key element of profitability is cost reduction, which is the key theme around the world in the cement industry at the current time.

A final word on the price—obviously all budgets are under pressure at present and training is one of the first areas that always get cut. However we would encourage you to take a longer term view to not cut back on training; employees still need the skills to run the plants, and in fact more than ever need to be able to optimize the plant and reduce costs to ensure the long term viability of the plants. By training now employees will be better equipped to maximize profits when we get to the other side of the current difficulties. Finally, as any other spend the cost should be judged as an investment—and as such the course is a small investment in the future of your employees, which will pay back many times over.

Mark Mutter—Technical Marketing Director



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FUEL CONSUMPTION ESTIMATOR

As promised in previous issues, we have continued to develop the new **CPI** website and in particular the interactive section of the site. Senior Process Consultant Roger Griffiths has developed a fuel consumption estimator to allow the users to assess their current fuel consumption performance in comparison with the **CPI** targets.

The calculator asks the user to input process type, cooler type, % kiln bypass before working out the target fuel consumption for the plant. By inputting the annual fuel cost the user can also see the financial impact of reducing the fuel consumption to the **CPI** target level.

consumption can be affected by many other factors; for example, the LSF and silica ratio levels and in some cases this will explain some or all of the difference between actual and target performance.

Give the estimator a go and please feel free to send us your feedback.

Obviously fuel

RIYADH CEMENT

CPI is continuing to strengthen its relationship with Riyadh Cement in the Kingdom of Saudi Arabia with a number of different projects that have been awarded to the company.

In the last quarter of 2008 **CPI** and Riyadh

cement started to work on a project for the purchase of microscopy equipment for the plant. Orders are close to being placed and once the equipment is set up **CPI** will provide a training course for the laboratory personnel. This work will be completed by **CPI** associate Arthur

Harrison.

More recently **CPI** has been commissioned to complete a cement mill audit of the two ball mills at the plant, along with a desktop study of the kiln drive arrangements.

HOME AND AWAY

CPI has been continuing work both in the UK and around the world throughout the first quarter of 2009.

At the start of the year **CPI** provided training modules for kiln burners at one of the UK

producers sites and is also providing process design support for the feasibility study into the proposed new line at Tarmac.

Elsewhere, **CPI** has completed a benchmarking study in

the USA, is in the process of evaluating a Greenfield project for an undisclosed client.

Previous work from 2008 continues in the form of project support in South America and training for a new kiln line in the USA.

EXAMPLE OF THE FUEL CONSUMPTION CALCULATOR

FUEL CONSUMPTION CALCULATOR

Interactive

To use the Fuel Consumption Benchmark Calculator below, please input your data for each of the parameters and click 'Calculate'.

FUEL CONSUMPTION BENCHMARK CALCULATOR:

Kiln type	Pre-calciner (4 stage) ▼	
Cooler type	3rd Generation (e.g Cross-bar) ▼	
% Kiln By-pass	10	% (Leave blank if there is no by-pass)
Actual fuel consumption	850	kcal/kg clinker ▼
Annual Fuel Cost (US\$)	\$ 1000000	
<input type="button" value="Calculate"/>		

RESULTS

Your Actual Fuel Consumption: 850 kcal/kg clinker
Your Target Fuel Consumption: 742 kcal/kg clinker

Potential Annual Savings: \$127,073

[Click here to send your results to CPI for evaluation](#)

YOUR VIEWS

As usual, we would like to have your feedback on our newsletter—what would you like to hear more about.

What other services would you like us to tell you about; are there other ways in which we can help you with your business performance?

What else would you like to see on the new **CPI** website? Please feel free to contact us and let us know.

Cement Performance
International Ltd
9 Davy Court
Rochester
Kent
ME1 1AE
United Kingdom

Phone: +44 1634 404585

Fax: +44 8707 059250

cementperformance.com