

## Alstom UK cutting carbon with CEMARS

### The Challenge

As a global leader in engineering solutions for rail infrastructure, power generation and power transmission industries, Alstom UK ensures its business operations are performed with the utmost respect to the environment.

Operating in a highly regulated environment in which legislation and reporting requirements are ever growing, Alstom is working to ensure that carbon reduction is a priority issue across its business and that the organisation leads best practice in carbon reduction and energy efficiency reporting.

Alstom UK's efforts are captured by the Carbon Reduction Commitment - Energy Efficiency Scheme<sup>1</sup>. The business has worked hard to ensure that it is fully compliant with the legislation and that it achieves recognition for its Early Action<sup>2</sup> in driving down carbon emissions over the last three years.

### Our Commitment

Alstom UK has a defined energy policy, which outlines targets, objectives and responsibilities for the monitoring and reduction of its energy consumption.

Globally, the Alstom Group has a key target to reduce relative carbon emissions by 20 per cent (based on a turnover metric) by 2015 from its global operations against a baseline of the financial year 2007-08. This target equates to an annual reduction of 3.2 per cent in energy and greenhouse gas<sup>3</sup> intensity. Alstom UK is committed to contributing to the group objectives and any savings from energy reduction will be reinvested in to the business.

### Our Achievements

Alstom UK has three key achievements:

Firstly, it has introduced a greenhouse gas management system in line with recognised GHG protocol to track progress against targets.

Secondly, Alstom UK Holdings Ltd achieved certification to the CEMARS standard (Certified Emissions Measurement And Reduction Scheme) in February 2011.

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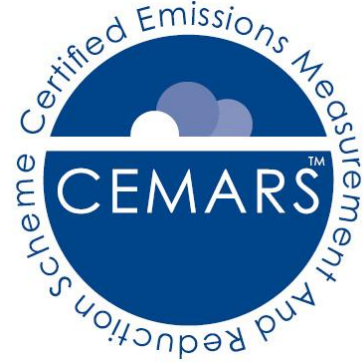
<sup>1</sup> CRC or CRC-EES

<sup>2</sup> Early Actions: actions that can be taken prior to the start of the CRC, and recognised as good practice, rewarded by the scheme through a better position in a league table assessing all CRC participants

<sup>3</sup> GHG

To achieve CEMARS certification Alstom UK had to measure its GHG emissions in compliance with ISO 14064-1: 2006 and commit to managing and reducing its emissions in respect of the operational activities of its organisation. Using the processes developed for the certification standard, Alstom UK will track progress and provide transparency of energy usage across its locations. Having full visibility of energy usage supports progress tracking of individual sites as well as countrywide improvements.

Thirdly, Alstom UK has achieved the CRC Early Action Metric<sup>4</sup> with CEMARS by demonstrating a relative reduction in emissions of 19 per cent over three years. This relative reduction equates to a saving of nearly £2 million brought about by reduction activities such as refurbishment activities on old sites and reducing heating temperatures in some offices. A shift in behaviour change and attitudes is being actively encouraged to help drive down unnecessary energy consumption.



Presentation of CEMARS certificate

## Future Activities

Alstom UK has appointed senior managers to lead the “clean energy deployment” of company activities. In addition Alstom expects every employee to be actively involved in the process of delivering against the targets and to help identify, understand and promote new and innovative ways of saving energy and reducing the organisation’s carbon footprint.

<sup>4</sup> CRC Early Action Metric: Metric used to assess a participant effort prior to the start of the CRC scheme

Future activities and projects include installation of new energy efficient lighting and heating control systems on sites that have the highest energy consumption, review of vending machines to ensure they operate according to shift patterns and not all hours, and improvement of data collection for company car travel.

## Q & A with Romuald Krasensky

### Project Manager – Energy and GHG Reduction, Alstom UK

*Why did you choose the CEMARS standard?*

*As a result of being captured by the CRC, we have decided to take key actions and do all we can to ensure a good performance under the scheme.*

*Being an Early Action under the CRC rules, in addition to granting access to a central platform, key to capturing data, and being recognised as good practice by the industries we work in, CEMARS was a clear choice for us.*



*The central platform we used to capture data is an essential tool to our approach to carbon management. We have ensured that each site/business unit has been made responsible for accounting, reporting and managing their emissions. As the CRC requires group visibility, having such a tool has been very helpful, and allows us to have a central overview of our overall impact in the UK. This platform allows each site/business we have set in the UK to be responsible for inputting the data, and we are then able to easily consolidate all data entered centrally.*

*How is the standard helping Alstom UK with CRC-EES compliance?*

*Being recognised as an Early Action is a plus. Also, it helps us better understand our exposure to the scheme, and provides reporting abilities which will reduce the burden of the CRC when we will have to produce the first set of reports, but also to retain information for our evidence pack.*

*In addition to this, as it provides a clear picture of our emissions, it highlights the areas where we should concentrate our efforts.*

*What are the key priorities for your energy policy and the carbon reduction agenda?*

*Engaging employees is essential. We now have the right management structure in place, with direct involvement of senior managers who are able to provide a high level of support. This enables us to implement technical solutions in a more efficient way.*

*However, reducing our carbon footprint through technical improvement will rapidly reach a limit if employees are not supportive. We have to educate, and train our people, provide adequate information and level of support to ensure understanding across the organisation, and not only senior managers.*

*One of the first actions following our certification is the review of our car fleet: providing more energy efficient vehicles to our employees is part of being more responsible.*

*How will you reinvest the savings made to date in energy reduction?*

*It is in our commercial interest to spend less on purchasing energy. That also means that we have to invest to ensure that we have adequate solutions in place for this to happen. Investment needs to provide a good rate of return.*

*What advice do you have for other organisations working to measure their carbon footprint and make a reduction in emissions?*

*Buy-in from people involved is essential for the right processes to be implemented, and especially at senior level, to help provide support and make this happen. In addition, getting buy-in from senior managers will help considerably to push carbon reduction up the business agenda.*

*Before setting targets, I would advise that one first identifies the sources of emissions one wants to reduce. By obtaining the carbon footprint, this will help to set the correct strategy, and give the appropriate focus. One can only reduce what can be measured.*

*Objectives should be smart: this means that they should be ambitious, but realistic. Implementing an action plan will help support these objectives and will set a route plan for the organisation to understand what reduction will mean.*

*What challenges do Alstom and the industry face for long-term carbon management and reduction?*

*Alstom has set objectives in terms of energy and GHG intensity. Our achievements will depend on our ability to mobilise capital in order to invest in our facilities and make them more efficient.*

*Even though the UK Government is aiming for a zero-carbon economy by 2050, there is so much that we can do to reduce our impact - but cannot bring it to zero yet.*



CEMARS (Certified Emissions Measurement And Reduction Scheme) recognises organisations for credible carbon measurement, management and reduction. An organisation must measure their carbon emissions across Scope 1, 2 and 3 as well as develop a detailed reduction plan with targets and key initiatives outlined. An organisation has five years from the base year to demonstrate either an absolute or relative reduction in carbon emissions. Organisations affected by the CRC Energy Efficiency Scheme may also use CEMARS to demonstrate carbon reductions achieved over the last three years. CEMARS is the only standard in the UK accredited to ISO 14065, the recognised international standard for greenhouse gas validation and verification bodies.