

Climate Change Agreements – Results of the Fourth Target Period Assessment

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KEY RESULTS

The key results of the fourth target period assessment show:

- 20.3 million tonnes of CO₂ per year emissions were saved in total compared to sector baselines
- 36 out of 52 sectors reporting met their targets outright
- In a further 12 sectors all the facilities had their Climate Change Levy discounts renewed
- 99 per cent of facilities (8,973) have had Climate Change Levy discounts renewed
- Generally, there was continued improvement across the sectors.

1 Introduction

Climate Change Agreements (CCA) were agreed between certain energy intensive users and Government in March 2001. Being party to a CCA, and meeting targets, allows relevant facilities to claim up to an 80% reduction in the Climate Change Levy, which was placed on non-domestic energy supplies from 1 April 2001.

The responsibility for negotiating energy efficiency and carbon savings targets, and operating the Climate Change Agreements rests with the UK Government's Department of Energy and Climate Change (DECC). HM Revenue and Customs collect the levy for Government and deal with exemptions and exclusions¹. The industrial sector associations play a pivotal role in managing the agreements for their members and others falling within the scope of the agreements. DECC engaged AEA (then also known as ETSU and subsequently Future Energy Solutions) to provide independent technical advice and facilitate the negotiations with the eligible sectors.

Full details on the agreements are given in a series of papers and guidance notes on the Defra website² (see references section). Each CCA has a performance target for the years 2002, 2004, 2006, 2008 and 2010. The Defra website also has an analysis of the original targets, the results of the first, second and third target period assessment and this fourth target period assessment. The report of the second target period includes the results of the 2004 target review. This report includes the results of the 2008 review³. Since the first report discusses the structure and operations of the agreements in detail, this information will not be repeated here.

¹ The Levy is deducted at 'source' by the facility's energy supply company and then passed to HMRC.

² The CCA team has moved from Defra to DECC, however the Defra website currently hosts CCA information.

³ Except the Aluminium Sector which is not yet finalised.

The analysis of the original targets provided an estimate of the carbon savings expected from the CCAs beyond “Business As Usual” (BAU). Since the publication of that analysis there have been widespread structural changes in UK industry, changes to products because of market forces and entrants and exits in many sectors. Therefore, while the sectors remain, the character has often changed substantially.

The results presented in this report represent the population of the CCAs as at the end of each sector's respective fourth target period, as reported to DECC on 9 February 2009. This is inevitably not the same population as that at the start of the agreements or at any other target period. This unfortunately makes comparisons between target periods difficult. Some sector agreements may cover considerably less energy than at the start of the agreements, but some of this energy reduction may be due to exits where the facility has been closed, and may not be as a result of the CCA. Conversely some sector agreements may now cover more energy than at the start of the agreements as a result of new entrants.

The first target period report⁴ gives full details on the savings from the CCA baseline to that point. This report concentrates on the performance at the fourth target period and includes, for reference, selected results from earlier target periods. Because of the changing membership of the CCA sectors, the target periods are not always readily comparable.

This target period is the second where there is overlap with the EU Emissions Trading Scheme (EU ETS). This is discussed in Section 3. In order to demonstrate their performance against their CCA targets, some sectors have reported results before and after the EU ETS double counting adjustments and these are described in the respective sector summaries. The summary results, except for trading of allowances, are quoted before double counting adjustments for those sectors that gave the additional breakdown.

⁴ <http://www.defra.gov.uk/environment/climatechange/uk/business/cca/pdf/cca-aug04.pdf>

2 The 2008 Review of Targets

The Agreements provide for a review of the final target (2010) in 2008 to ensure that the targets continue to represent the potential for cost-effective energy savings, taking account of any changes in technical or market circumstances. This gave an opportunity for both industry and government to re-examine the assumptions behind the setting of targets and to see if they were set correctly.

The review was a joint exercise between DECC and the sector associations and took into account the better than expected performance for the majority of sectors in 2006 and the impact of recent energy price rises on the availability of cost-effective energy savings.

The review is now complete and the results are reflected in the sector summaries in Annex 2 to this report. Weighted for energy use in 2008, the targets have been tightened by 4.7% for 2010. There was no review of targets for the three new sectors⁵ that reported for the first time at target period 4.

In the majority of cases, the review has resulted in a tightening of targets for the final target period compared to the agreements prior to 2008. This reflects the success industry has had in making energy savings since the 2004 Review and the increasing cost-effectiveness of making additional savings in future. For five sectors and three of the ceramics sub-sectors, there have been no changes to targets, because they were not meeting the existing targets and economic or legislative conditions would mean the existing targets would remain challenging.

⁵ Cleveland Potash Ltd., Cold stores and Glass manipulators.

3 EU Emissions Trading Scheme and changes to sector reporting

The EU ETS came into effect from January 2005. Approximately 500 installations covered by EU ETS are also covered by CCAs of which about 330 opted out of EU ETS for the first phase (2005-2007). For those remaining in EU ETS, there is the potential for double counting of emissions and so procedures to adjust for this were agreed⁶. Phase II of the EU ETS began in 2008 and CCA installations can no longer opt out of the scheme. However, because of the time lag in comparable EU ETS and CCA data, the double counting procedure does not apply at Target Period 4 to those CCA installations that opted out of Phase I of the EU ETS. At Target Period 5, the double counting mechanism will be applied to all installations incumbent in Phase II of the EU ETS.

EU ETS covered emissions already included in Climate Change Agreements (CCAs). Industry preferred to keep the existing CCA targets rather than take out the EU ETS emissions. Emissions from energy use covered by the CCA are therefore included in the EU ETS. If a Target Unit (TU) reduces emissions, then they may have a surplus of allowances for sale on EU ETS or banking for future use. This same reduction in emissions may also mean that the TU over-performs against their CCA target, which can be converted into allowances for sale on UK ETS. In other words the TU gains allowances on both trading schemes for the same reduction in emissions. Conversely, if emissions increase, TUs may find themselves forced to obtain allowances on both EU ETS and UK ETS to meet the requirements of the different schemes.

It was necessary to avoid the situation where the TU would be able to benefit from a surplus arising from the same emission reduction in both schemes, or alternatively be penalised in both schemes to cover the same shortfall. The methodology that was used to avoid this double counting of emissions for TP3 and TP4 is described CCA-D06, with additional information regarding CHP contained in CCA-C04. It is not possible to implement that adjustment within EU ETS and so modifications were made to the reporting methodology for CCAs and an adjustment to the TU and sector target was applied where appropriate. There are 23 sectors that have had to apply this adjustment. It should be noted that EU ETS allowances and UK ETS allowances are not interchangeable.

⁶ Described in paper CCA-D06 available on the Defra website

4 Commentary on the results of the Fourth Target Period

Climate Change Agreements were originally negotiated with 44 industrial sectors. Three of these, Reprotech, Vehicle Builders and Repairers and the CRT sector have since been terminated by the sectors for business reasons. An additional 12 sectors have entered agreements under the energy intensity criteria. However one sector (silica sand) merged with its IPPC equivalent. Hence overall there are 52 sectors reported in this document.

Overall 36 out of the 52 sectors have met their targets after taking the emissions trading by operators into account.

4,172 target units (8,973 facilities) have been re-certified.

429 target units left the agreements between TP3 and TP4 (as reported by the Sector Associations).

14 target units have not been re-certified.

187 target units did not submit any data at the end of the target period and their agreements have been terminated.

Overall, 87% of target units that have been part of a CCA at some time between 2006 and 2008 have been re-certified. Of those facilities that reported at target period 4 or were non-reporting new entrants, 99% have been re-certified.

The results are presented in comparison to the base years of the individual sectors, both as an actual (absolute) saving, and, where production data is available, as an improvement compared to what the performance would have been, if the output in the base year had been the same as that during the target period (relative saving). The latter gives an indication of the improvement in efficiency for those sectors where the absolute emissions may have increased as a result of increasing output.

Results are presented as tonnes of carbon dioxide equivalent. Energy is converted to carbon dioxide using the appropriate fuel mix for the sector. Some sectors have saved other greenhouse gases and there are established conversion factors to equate them to CO₂ savings.

It is possible that a sector does not meet its target at the sector level assessment either as a consequence of the methods of calculating sector targets and/or the impact of trading allowances and ring-fencing. In some cases mathematical effects mean that the sector target is not met but all the underlying target unit targets are met or vice versa. This effect arises because some sectors comprise a variety of target units with very different specific energy consumption, SEC (energy per unit of output). If the output of target units with low SEC fall, whilst the output of target units with high SEC rise, then the sector target may not be met, even though all the individual target unit targets have been met. This is discussed in more detail in Annex 1 of the Target Period 2 report.

In other cases, the sale or ring-fencing of surplus allowances by operators can result in a sector not meeting its target. Again, in this instance it is also possible that all individual underlying agreement target unit targets are met. In both cases, whilst mathematically the sector has not met its target, in practical terms it has effectively done so if all the constituent target units have met theirs. This was the case for 12 of the sectors.

The risk management measures available to target units at the fourth target period are either trading or relevant constraints. Nearly all target units requiring risk management measures used trading, although two claims for relevant constraints were also agreed.

4.1 Results in absolute performance terms

The table below shows how the CCAs have performed overall. It shows the total CO₂ savings per annum at all four target periods compared to the respective sector base years. It also shows what savings the sector targets represent. These savings are net figures across all sectors. Some sectors with relative targets may have increased energy consumption because of increased production, whilst at the same time improving energy efficiency.

The table also shows the effects of the Steel sector on the overall result. Steel represents roughly a quarter of all primary energy in the CCA sectors and there have been major changes in this industry over the lifetime of the agreements. Since output in the fourth target period was lower than predicted for the agreed target, and the targets for steel are denominated in absolute energy, the targets for this sector were adjusted in proportion to the fall in output (ie reduced from 370 PJ to 302 PJ). This resulted in the CO₂ savings from the baseline increasing by 5.3 Mt for Target Period 4 because the target has been lowered compared to the baseline and hence the gap which represents the savings increases. The effect of the adjustment to the steel sector target for falling output is shown in the table in parentheses.

The different sectors have a range of baseline years, ranging from: 1990 to 2001 for those sectors that were in the original agreements; or 2004 to 2006 for sectors have entered agreements under the energy intensity criteria . The figures for absolute savings given below are for the savings by all sectors from their relevant baselines, they are not the savings from a single point in time. The membership of the agreements at the end of each target period is not the same as that at the start of the agreements or at the first target period. In virtually all sectors there has been a number of exits and entrants. Some sector agreements may cover considerably less energy than at the start of the agreements, but some of this energy reduction may be due to exits where the facility has been closed, and may not be as a result of the CCA. Conversely some sector agreements may now cover more energy than at the start of the agreements as a result of new entrants.

	All Sectors		
	Actual (MtCO₂/year)	Target (MtCO₂/year)	Actual minus Target (MtCO₂/year)
Absolute savings from baseline – Target Period 1 <i>(With adjusted Steel target)</i>	16.4	6.0 <i>(12.3)</i>	10.4 <i>(4.1)</i>
Absolute savings from baseline – Target Period 2 <i>(With adjusted Steel target)</i>	14.4	5.5 <i>(9.3)</i>	8.9 <i>(5.1)</i>
Absolute savings from baseline – Target Period 3 <i>(With adjusted Steel target)</i>	16.4	9.1 <i>(12.3)</i>	7.3 <i>(4.1)</i>
Absolute savings from baseline – Target Period 4 <i>(With adjusted Steel target)</i>	20.3	11.1 <i>(16.4)</i>	9.2 <i>(4.0)</i>
	All sectors excluding Steel		
	Actual (MtCO₂/year)	Target (MtCO₂/year)	Actual minus Target (MtCO₂/year)
Absolute savings from baseline – Target Period 1	7.0	4.6	2.4
Absolute savings from baseline – Target Period 2	6.9	3.1	3.8
Absolute savings from baseline – Target Period 3	9.1	6.4	2.7
Absolute savings from baseline – Target Period 4	12.1	8.7	3.4
	Steel Only		
	Actual (MtCO₂/year)	Target (MtCO₂/year)	Actual minus Target (MtCO₂/year)
Absolute savings from baseline – Target Period 1 <i>(With adjusted target)</i>	9.4	1.4 <i>(7.7)</i>	8.0 <i>(1.7)</i>
Absolute savings from baseline – Target Period 2 <i>(With adjusted target)</i>	7.6	2.4 <i>(6.1)</i>	5.2 <i>(1.5)</i>
Absolute savings from baseline – Target Period 3 <i>(With adjusted target)</i>	7.3	2.7 <i>(5.9)</i>	4.6 <i>(1.4)</i>
Absolute savings from baseline – Target Period 4 <i>(With adjusted target)</i>	8.3	2.4 <i>(7.7)</i>	5.9 <i>(0.6)</i>

Note: Figures have been rounded for presentation

4.2 Relative performance results

For sectors with relative targets⁷, AEA has computed the performance the sector would have achieved, if the output in the base year had been the same as that during the target period. The difference between this and the actual performance in the target period is a measure of improvements in energy efficiency.

Using this approach, the table below demonstrates the relative savings made by the sectors with relative targets.

	Relative Target Sectors		
	Actual (MtCO ₂ /year)	Target (MtCO ₂ /year)	Actual minus Target (MtCO ₂ /year)
Relative savings from baseline - Target Period 1	10.9	8.5	2.4
Relative savings from baseline - Target Period 2	14.2	10.5	3.7
Relative savings from baseline - Target Period 3	15.6	12.9	2.7
Relative savings from baseline - Target Period 4	16.1	12.8	3.3

The comments on sector membership and baselines given for absolute performance above also apply here.

⁷ This includes all sectors except Steel, Aerospace, Wallcoverings, Supermarkets, and Kaolin & Ball Clay which all have absolute targets.

4.3 Interaction with the EU Emissions Trading Scheme

For those TUs with facilities in EU ETS, there was, in aggregate, a surplus 223,285 EU ETS allowances associated with emissions common to both schemes. This surplus was lower than the previous target period⁸ due to voluntary retirement of EU ETS allowances by the Target Units. As a result of the surplus, the CCA targets in aggregate were tightened to prevent double benefit. This then meant that many TUs had to either obtain UK ETS allowances for retirement to ease their CCA target or their ability to ring-fence or sell over-performance was reduced or eliminated. However, some individual EU ETS installations underperformed in EU ETS and the CCA target was eased as a result of the mechanism.

4.4 Interaction with the UK Emissions Trading Scheme

In the fourth target period, in total 1,438 target units retired 2.1 million allowances to help them meet their individual targets. These allowances were either bought on the market or the result of operators verifying earlier over-performance. Other operators over-achieved against their targets by an amount equivalent to approximately 5.8 million tonnes of carbon dioxide. At the TP4 reconciliation deadline, only 0.3 million tonnes of carbon dioxide had actually been verified for sale or future use; the remaining 5.5 million tonnes of over-performance was ring-fenced. The table below summarises the interaction with the UK – Emissions Trading Scheme during all four Target Periods. The slightly lower number of allowances retired at TP4 compared to TP3 is likely to be the result of different behaviour in the EU ETS/ CCA double counting mechanism, when low value EU ETS allowances were cancelled, and so CCA targets were not tightened to compensate to the same extent.

	No. target units making retirements	No. allowances retired (tCO₂)	Total overachievement (million tCO₂)	No. allowances verified for sales (million tCO₂)	No. allowances ring-fenced (million tCO₂)
TP1	1,026	578,000	3.8	0.6	3.2
TP2	1,137	905,000	6	0.6	5.4
TP3	1,454	2,600,000	3.9	0.4	3.5
TP4	1,438	2,060,000	5.8	0.3	5.5

There is no evidence that large numbers of operators used the trading mechanism as an alternative to implementing their own energy efficiency measures. Indeed, even though the price of allowances has been relatively low, sectors and operators continued to perform well against fourth target period targets.

⁸ At Target Period 3 there was, in aggregate, a surplus 3,634,000 EU ETS allowances associated with emissions common to both schemes.

4.5 External influences on company performance

During this target period there have been a number of influences on sector performance. These include the following

- Gas and electricity prices rose significantly during the third target period. Prices were beginning to ease during the latter part of the fourth target period, but still showed a large increase over earlier target periods. Whilst increased fuel costs improve the cost effectiveness of energy efficiency initiatives, the rate of increase in price compared to the time to implement additional measures means that companies may have a period of higher prices before the energy efficiency measures provide benefits.
- Also, as in the third period, raw material prices remained high and imports, particularly from outside Europe, resulted in many site closures. The recession that started in 2008 had less of an impact for those sectors whose reporting year ended in September 2008, but was significant for those with a calendar year, which includes the steel sector. Reduced output makes target achievement harder for relative targets, but easier for absolute targets.
- The energy intensity of products produced in the UK continues to increase. Bulk products are produced more economically outside the UK, leaving the UK manufacturers to deal with short run, quick response production which can require more energy and is more difficult to optimise. Also the continuing move to thinner, lighter products often involves more energy in manufacture. Manufacturers need to accommodate increased energy intensity within their targets.

4.6 Discussion of sector performance

The following table summarises the performance of sectors in absolute and relative terms, relative to their baseline performances. This table does not reflect whether a sector met its target or not.

Improved Absolute Performance	Improved Relative Performance	Number of Sectors
✓	✓	33
✗	✓	12
✓	✗	2
✗	✗	0

All five of the absolute sectors that do not report on relative performance improved their absolute performance.

This indicates that almost all sectors have managed to improve their energy efficiency performance and most have saved energy overall, though closures, rationalisation and reduced output will play a part in the absolute reduction in energy.

The reduction in the number of allowances retired and the increase in over achievement in comparison to TP3 are thought to be largely a result of the voluntary cancellation of approximately 4.6 million EU ETS allowances at TP4. This avoided the requirement for double counting, which generally increased retirements/reduced ring-fencing at TP3.

There are a number of potential reasons to account for the closer approach to the targets since TP2

- Most sectors had their targets tightened as a result of the 2004 review. On an energy weighted basis, sector targets were tightened by an average of 3.2% for this target period.
- Some sectors invested early in energy efficiency measures to meet their 2010 targets and hence earlier levels of over-performance will be eroded if no additional actions are undertaken.
- Relative target sectors experiencing a drop in throughput will automatically experience an increase in their specific energy consumption making it more difficult to meet their target.
- As indicated above, the product mix is generally moving to more complex products which may require additional process energy.

4.7 Summary of performance of each sector

The following table summarises the performance of each CCA sector at each target period to date in terms of kilotonnes of CO₂ saved per annum. Note that in this table, a negative value implies an increase in emissions, rather than a saving.

A detailed breakdown of the performance of each sector is given in a series of summaries in Annex 2. Annex 1 describes the layout of these summaries.

Summary Table

Sector	Target Period 1		Target Period 2		Target Period 3		Target Period 4	
	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year
Aerospace	15	N/A	27	N/A	71	N/A	128	N/A
Agricultural Supply	23	46	1	74	24	114	24	109
Aluminium	2,000	2,600	2,227	3,409	2,323	3,378	2,772	3,874
Brewing	37	44	98	91	148	123	187	122
Calcium Carbonate	N/A	N/A	N/A	N/A	6	5	11	5
Cathode Ray Tubes	21	117	7	36	-	-	-	-
Cement	1,900	880	2,030	1,136	2,240	1,553	2,956	1,563
Ceramics								
non-fletton	71	45	74	84	162	44	229	14
fletton	-5.9	-5.7	-20	-20	-17	-19	11	-2
refractories	62	-7.3	89	-21	81	-36	93	-40
whitewares	58	68	141	88	130	90	171	99
materials	3.2	12	22	28	5	14	65	40
Chemicals	2,000	2,500	1,520	3,524	2,031	2,977	2,958	2,398
Cleveland Potash	N/A	N/A	N/A	N/A	N/A	N/A	9	-9
Coldstores	N/A	N/A	N/A	N/A	N/A	N/A	15	16
Craft Baking	-9	27	-29	52	-33	71	-44	93
Dairy Processing	58	190	20	186	11	202	40	206
Egg Processing	1.8	7.5	0.3	4	-2	5	-2	4
Egg Production (NFU)	10	15	4	27	4	22	15	32
Food & Drink	160	620	161	732	157	1000	30	1,102
Foundries	139	16	114	7	76	62	39	65
Geotextiles	N/A	N/A	N/A	N/A	0.1	0.7	6	5
Glass	39	251	-49	250	-6	226	-124	186
Glass Manipulator	N/A	N/A	N/A	N/A	N/A	N/A	-1	1
Gypsum Products	-21	5.7	-50	1	-56	21	-45	36
Heat Treatment	N/A	N/A	N/A	N/A	5	9	2	22
Horticulture (NFU)	N/A	N/A	N/A	N/A	54	67	101	112
Industrial Gases	N/A	N/A	N/A	N/A	10	-2	22	-4
Kaolin and Ball Clay	N/A	N/A	N/A	N/A	33	13	99	N/A
Leather	6	2.9	6	0	8	4	8	4
Lime	173	51	125	91	104	99	121	64
Maltsters	7.5	22	0	36	21	42	-2	31
Metal Forming	23	46	26	92	37	76	61	145
Metal Packaging	18	28	21	39	24	41	31	61
Mineral Wool Producers	8.9	24	-9	63	-46	94	-43	104
Motor Manufacturers	36	185	11	398	173	554	224	1,007
Non-Ferrous Metals	130	140	78	78	183	125	158	115
Packaging and Industrial Films	N/A	N/A	N/A	N/A	-1	0	0	3
Paper	-510	2,600	-248	2,758	577	2,683	977	2,599
Pig Farming (NFU)	14	11	13	13	11	16	15	26
Poultry Meat Processing	-30	38	-40	26	-36	38	-50	29
Poultry Meat Production (NFU)	9.7	28	17	40	18	51	51	82
Poultry Meat Rearing	72	82	65	77	39	19	36	10
Printing	-22	-5.4	-31	52	-47	32	-27	33
Red Meat Processing	27	12	-16	2	-31	62	-56	57
Renderers	14	-0.59	-15	28	-59	7	-20	18
Rubber Tyre Manufacturing	171	49	192	131	209	131	226	113
Semi-conductor Manufacture	60	41	29	324	117	1111	153	917
Slag Grinding	3.5	6.2	-9	12	-10	16	1	18
Spirits	45	17	94	64	64	93	-4	147
Steel	9,400	N/A	7,553	N/A	7,277	N/A	8,293	N/A
Supermarkets	15	1.1	-0.95	N/A	1.5	N/A	12	N/A

Sector	Target Period 1		Target Period 2		Target Period 3		Target Period 4	
	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year	Absolute Saving ktCO ₂ /year	Relative Saving ktCO ₂ /year
Surface Engineering	29	75	42	119	91	108	128	160
Textiles	114	50	115	107	106	62	72	83
Textiles (Energy Intensive)	N/A	N/A	N/A	N/A	-0.4	2	18	12
Vehicle Builders and Repairers	0.57	0.75	-	-	-	-	-	-
Wallcoverings	28	N/A	19	N/A	8	N/A	12	N/A
Wood Panel Manufacture	-22	-5.5	-15	68	98	160	180	159

5 References

Defra

General -

<http://www.defra.gov.uk/environment/climatechange/uk/business/cca/index.htm>

AEA's (ETSU's) analysis of the original targets, plus results of the first, second and third target periods -

<http://www.defra.gov.uk/environment/climatechange/uk/business/cca/results.htm>

HM Revenue and Customs

General - <http://www.hmrc.gov.uk/> - details under 'Excise & Other', 'Environmental Taxes'

Annex 1- Explanation of the sector summary format

Annex 2 to this document comprises a summary of the results for each sector. A brief explanation of the sections of these summaries is provided below.

In all cases, energy is expressed in primary energy terms. This means that metered electricity, as consumed at any installation, is multiplied by a factor (2.6 for the range of years 2000-2010) to reflect the energy required to generate, transmit and distribute the electricity across the grid. The agreements also work in units of carbon or carbon equivalent, and so care has to be taken when trading is involved to ensure there is a conversion to carbon dioxide, as each trading allowance is equivalent to one tonne of CO₂. One tonne of carbon is equivalent to 44/12 tonnes CO₂ (3.667 tonnes CO₂).

Targets and performance are quoted to the same level of significance as the original agreements. Carbon dioxide, energy consumption and production figures are rounded for display to the nearest integer. In general, other numbers are rounded to two significant figures. Rounding may prevent a simple addition of the numbers quoted in the summaries.

There are three small variations in the sector summary format depending on whether the sector has members in EU ETS or not and, if so, whether the sector provided information to isolate the impact of the double trading adjustment. The different variations are discussed in the sections below using these descriptions

Case 1 – the sector has Target Units in EU ETS as well as Climate Change Agreements, and the information presented incorporates the adjustments applied to the EU ETS overlap.

Case 2 – the sector has Target Units in EU ETS as well as Climate Change Agreements, information is available to show results with and without the adjustments applied due to EU ETS.

Case 3 – sector does not have Target Units in EU ETS.

Scope and membership of the umbrella agreement

This section gives a brief statement of the membership of the agreement for the sector. This is defined more formally in clause 3 of the umbrella agreements. The umbrella agreements are available at www.defra.gov.uk/environment/climatechange/uk/business/cca/index.htm. This is also the location of the list of those facilities certified for the reduced rate climate change levy.

This section also provides information on whether the sector has Target Units that also have installations in EU ETS as well as details on how the corrections for this are presented.

Targets

The table given in this section shows how the targets for the sector have changed with time, as the composition of the sector changes, due to exits and new entrants, and as a result of corrections to baseline data and other agreed variations. DECC has encouraged the correction of errors in baseline data and basic assumptions in order to ensure the agreement targets (whose stringency is maintained) are on a sound basis for the life of the agreements.

The sector targets as originally agreed are quoted in the first row of the table and the second row shows the targets at the end of the first target period (TP1).

The row "2004 Review" shows the percentage change of targets resulting from the review of targets in 2004 required by the agreements. The percentage change is based on the population and their targets at the time of the start of the review. The targets given in the fourth row of the table ("At TP2") for the second target period take account of these adjustments to the 2006, 2008 and 2010 targets. The fifth row provides targets for the third target period ("At TP3").

The row "2008 Review" shows the percentage change of targets resulting from the review of targets in 2008. The final row displays the targets for the fourth target period ("At TP4") and these take account of any adjustments to the 2010 target.

Additional adjustments to the TP4 sector target

Sector targets are adjusted for any retirement of allowances or ring-fencing that has taken place. Individual target units or trading groups may buy UK ETS allowances to ease targets to match their performance level. Alternatively they may sell verified allowances or retain (ring-fence) over-performance for subsequent verification and use, which has the effect of tightening the target, i.e. making the target more demanding.

Further to the above, for some specific sectors, sector level targets are varied to account for agreed sector level changes. This mechanism is described in more detail in paper CCA-D03.

Final adjusted CCA sector target for the TP4

For case 1, this section of the summary shows the sector target, as it is when all the adjustments described above have been made as well as those made for those Target Units which are part of EU ETS as well as Climate Change Agreements. The actual performance of the sector is compared to this adjusted target. The adjustment due to the overlap between the two schemes is shown in the section entitled 'Adjustment for overlap with EU ETS'.

For case 2, the adjusted target only includes adjustments for the retirement of allowances, ringfencing and PMO, as described above. It does not include any adjustment for EU ETS.

For case 3, Target Units in the sector are not in EU ETS and so the adjusted target does not include any correction for this.

Sector performance recorded

The table given in this section shows the sector performance against the equivalent baseline at each target period to date. The “equivalent baseline” is the baseline performance for the population of the sector in the agreement at the relevant target period. This changes with time as the population of the sector changes and also due to base data corrections.

The performance figure given is simply the actual performance recorded by the sector. All adjustments are made to targets and not performance.

Adjustment for overlap with EU ETS

This section provides details on the Target Units that are in both the EU ETS and Climate Change Agreement schemes. This specifies the number of Target Units in the sector with an overlap between the two schemes and that therefore have had an adjustment to their target. The adjustment to the CCA target is expressed as an excess or deficit of CO₂, as well as the resultant tightening or easing of the sector target.

For case 1 this adjustment is included in the overall adjusted target in section ‘Final adjusted CCA sector target for the TP4’. It is not included in the adjusted target for case 2.

Commentary

For case 1, this section summarises how the performance of the sector compared with the adjusted target, and the facilities that were certified and decertified with explanations.

For case 2, the performance of the sector is compared to the adjusted target not including adjustments for EUETS, and then indicates how the sector target changed due to the EUETS adjustment and what difference this made to the result.

Due to the application of ring-fencing and relevant constraints at the target unit level, it is quite possible for the sector as a whole not to meet its target yet for all the target units to meet theirs on their individual performance.

Target units that have terminated their agreement prior to reporting for the target period or have not supplied data are excluded here from the stated number of those not being re-certified. Those not re-certified can maintain their agreement and work to meet their next target with a view to subsequently regaining certification.

This section also gives a table showing how the sector has improved relative to the equivalent base year position at each target period. It should be noted that the figures for each target period may be for different populations.

Graph of performance and current targets relative to the base year

This graph uses the data from earlier sections and particularly illustrates the impact of trading allowances and ring-fencing on the sector target. For each sector the data has been normalised, with the base year performance set to 1.0, to give a clear visual presentation of the performance of the sector at each of the target periods to date. The graphs show both the current target profile and the original umbrella agreement target profile. For some sectors these will actually have eased slightly as a result of entrants and exits, especially where the individual target units have different savings profiles.

For case 1, the target after adjustments will include adjustments due to the EU ETS overlap, but in case 2 this adjustment is not included.

Impact of the sector performance

This section indicates the change in energy consumption and carbon dioxide emissions. There are a number of ways that this can be determined. The two measures presented here are straightforward to calculate.

Relative energy/ CO₂

The base year performance here is calculated by taking the membership of the agreement at the end of each target period and calculating the energy/ carbon demand at base year performance and the relevant target period throughput. The carbon/ energy conversion factor for the target period has been employed to convert the relative energy figure into carbon dioxide. The relative energy figure therefore takes account of the change in throughput and, where allowable, product mix changes and so gives an indication of the energy efficiency performance of the sector.

It should be noted that, since the sector population may have changed at each target period, the figures presented cannot necessarily be used to show how the energy/carbon demand has changed from one target period to the next.

Absolute energy/ CO₂

The base year performance here is simply the recorded summation of the base year energy/ carbon consumption at the baseline for the membership of the sector at the end of each target period. The carbon/ energy conversion factor for the target period has been employed to convert the absolute energy figure into carbon dioxide. Using the reported performance figures for each target period, the absolute difference in performance between the base year and the target period is calculated.

It should be noted that, since the sector population may have changed at each target period, the figures presented cannot (in most cases) be used to show how the energy/carbon demand has changed from one target period to the next.

Where possible a simple comparison of the total sector throughput for the base year compared to the target period is given in the same table as the absolute performance. For some sectors, notably some absolute sectors and those sectors with diverse sub-sector units, it is not possible to produce one meaningful throughput measure.

Annex 2 - Summaries of individual sector performance

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AEROSPACE (SOCIETY OF BRITISH AEROSPACE COMPANIES – SBAC)

Scope and membership of the umbrella agreement

SBAC represents the companies operating in the aerospace industry in the UK. This sector carries out a wide range of activities including the manufacture of commercial and military aircraft, ordnance, satellite equipment, etc.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kilowatt hours (kWh_p). The sector agreement is an absolute energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2001 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008)	TP5(2010)
Original (kgC)	28,752,427	28,062,259	27,555,264	27,121,118	26,601,912	26,299,325
At TP1 (kWh_p)	648,242,765	637,700,258	624,258,112	618,500,243	604,834,257	595,927,925
2004 Review*	-	-	-	1%	1%	1%
At TP2 (kWh_p)	1,277,548,645	-	1,241,016,220	1,212,547,147	1,186,897,160	1,165,986,038
At TP3 (kWh_p)	2,120,380,884	-	-	1,964,992,584	1,937,705,692	1,892,975,800
2008 Review*	-	-	-	-	-	14.2%
At TP4	2,357,707,711	-	-	-	1,949,472,737	1,633,094,446

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 97 ktCO₂ were ring-fenced
- Allowances equivalent to 4 ktCO₂ were purchased

Overall, there was a net ring-fencing of 93 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

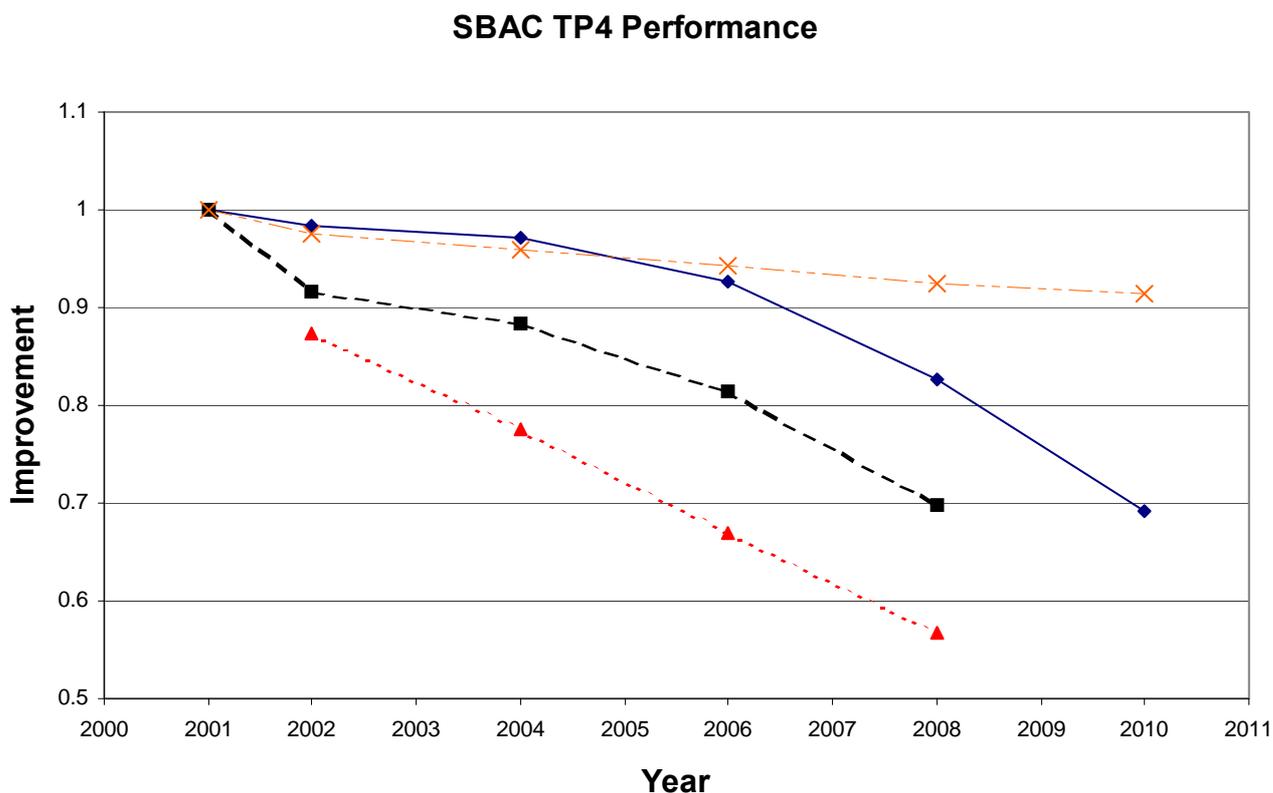
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 1,339,376,857 kWh_p. This includes adjustments for EU ETS (see details below) and is equivalent to a sector target change (tightening) of –610,095,880 kWh_p.

Sector performance recorded						
The following table shows the sector performance against the equivalent ¹ baseline for all target periods to date.						
	Equivalent baseline (2001)			Performance		
	Energy (kWh_p)	Production	SEC	Energy (KWh_p)	Production	SEC
TP1	648,242,765	N/A	N/A	593,956,008	N/A	N/A
TP2	1,277,548,645	N/A	N/A	1,129,236,627	N/A	N/A
TP3	2,120,380,884	N/A	N/A	1,726,406,139	N/A	N/A
TP4	2,357,707,711	N/A	N/A	1,644,882,924	N/A	N/A
Adjustment for overlap with EU ETS						
Five Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.						
Two Target Units had their targets tightened due to double counting. Three Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall, there was an EU ETS excess of 17 ktCO ₂ , which resulted in an adjustment (tightening) to the sector target of -93,524,027 kWh _p . This is included within the adjusted target described above.						
Commentary						
The sector performance of 1,644,882,924 kWh _p is above the CCA adjusted target of 1,339,376,857 kWh _p and, therefore, the sector did not meet its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.						
The following table shows how the sector has improved relative to the equivalent base year (2001) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in energy use compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	1.6%		8.4%			
TP2	2.9%		12%			
TP3	7.3%		19%			
TP4	17%		30%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

¹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO₂ emissions for the sector have changed compared to the equivalent base year position.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2001) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.2	-15	N/A
TP2	-0.5	-27	N/A
TP3	-1.4	-71	N/A
TP4	-2.6	-128	N/A

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

AGRICULTURAL SUPPLY (AGRICULTURAL INDUSTRIES CONFEDERATION - AIC)

Scope and membership of the umbrella agreement

The AIC (formerly UKASTA) agreement covers the majority of UK animal feed production.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	163.7	160.2	157.0	154.5	153.3	152.1
At TP1	170.7	167.0	163.6	161.1	159.8	158.6
2004 Review*	-	-	-	3.0%	3.5%	4.0%
At TP2	172.4	168.7	165.2	157.8	155.8	153.7
At TP3	169.6	-	-	154.9	153.1	151.1
2008 Review*	-	-	-	-	-	7.0%
At TP4	173.2	-	-	-	156.6	143.7

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 56 ktCO₂ were ring-fenced
- Allowances equivalent to 15 ktCO₂ were purchased

Overall, there was a net ring-fencing of 41 ktCO₂, equivalent to a sector target change (tightening) of -10.6 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

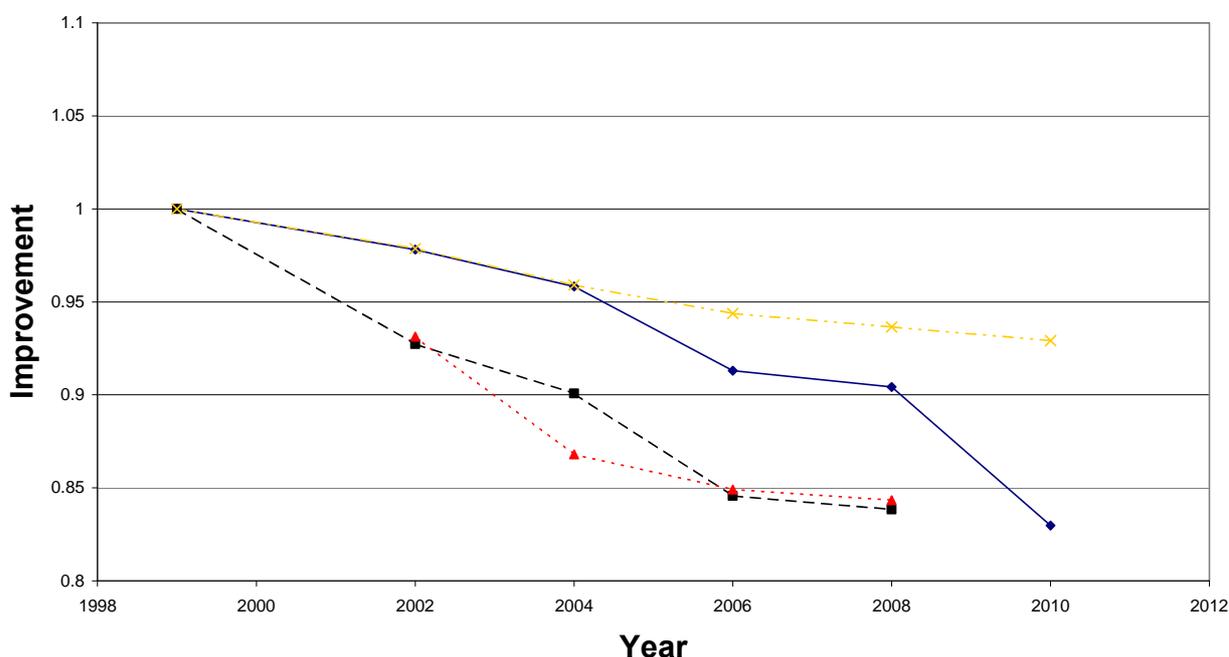
As a consequence of the adjustments described above, the final sector target for the TP4 was 146.0 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ² baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh _p)	Production (tonnes)	SEC (kWh _p /t)	Energy (kWh _p)	Production (tonnes)	SEC (kWh _p /te)
TP1	3,390,170,196	19,857,252	170.7	3,248,544,075	20,519,724	158.3
TP2	3,297,955,281	19,125,693	172.4	3,292,906,057	21,200,430	155.3
TP3	3,149,218,854	18,565,750	169.6	3,030,854,982	21,129,330	143.4
TP4	2,926,072,291	16,897,614	173.2	2,806,866,147	19,333,799	145.2
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of the EU ETS so no adjustments were required.						
Commentary						
The sector performance of 145.2 kWh _p /t is below the CCA adjusted target of 146.0 kWh _p /t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	2.2%		7.3%			
TP2	4.2%		9.9%			
TP3	8.7%		15%			
TP4	9.6%		16%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

² Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

AIC (formerly UKASTA) TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.9	-46
TP2	-1.3	-74
TP3	-2.0	-114
TP4	-2.0	-109

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.5	-23	3
TP2	-0.02	-1	11
TP3	-0.4	-24	14
TP4	-0.4	-24	14

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

ALUMINIUM (THE ALUMINIUM FEDERATION - ALFED)

Scope and membership of the umbrella agreement

The Aluminium Sector has a number of sub-sectors (i.e. primary, secondary, rolling, extruding, aluminium finishing, magnesium and titanium). The primary aluminium producers are the largest energy consumers. Greenhouse gases other than CO₂ are included in the sector emissions.

This sector has a Target Unit with an installation in the EU ETS. The sector has provided information to show performance both in the presence and absence of adjustments applied due to EU ETS.

Targets

The targets for this sector are given in variable carbon measured as a ratio of actual carbon relative to a reference performance. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1990 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline	TP1(2002) Variable Carbon	TP2(2004) Variable Carbon	TP3(2006) Variable Carbon	TP4(2008) Variable Carbon	TP5(2010) Variable Carbon
Original	1	0.726	0.705	0.695	0.690	0.678
At TP1	1	0.709	0.688	0.678	0.673	0.661
2004 Review*	-	-	-	5.6%	4.6%	5.7%
At TP2	1	-	0.680	0.676	0.664	0.659
At TP3	1	-	-	0.673	0.666	0.662
2008 Review*	-	-	-	-	-	8.5%
At TP4	1	-	-	-	0.666	0.606

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 318 ktCO₂ were ring-fenced
- Allowances equivalent to 8 ktCO₂ were purchased

Overall, there was a net ring-fencing of 310 ktCO₂, equivalent to a sector target change (tightening) of -0.044 (Note – figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 0.002.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 0.624. This does not include adjustments for EU ETS adjustments (see details below).

Sector performance recorded

The following table shows the sector performance against the equivalent³ baseline for all target periods to date.

	Equivalent baseline (1990)			Performance		
	Energy (kWh)	Production	Carbon ratio	Energy (kWh)	Production	Carbon ratio
TP1	23,701,434,745	N/A	1	17,318,057,079	N/A	0.681
TP2	25,124,015,910	N/A	1	17,468,250,618	N/A	0.646
TP3*	22,926,222,886	N/A	1	19,119,879,952	N/A	0.620
TP4	27,607,259,748	N/A	1	16,816,058,550	N/A	0.611

* Reported sector energy use has been changed as a result of an audit subsequent to TP3.

Adjustment for overlap with EU ETS

One Target Unit reporting at TP4 is part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. This facility was required to adjust its target for double counting between these two schemes.

The Target Unit had its target tightened due to double counting. The total net effect of double counting was an excess of 210 ktCO₂, which resulted in an adjustment (tightening) to the sector target equivalent to -0.03.

Commentary

The sector performance of 0.611 is below the CCA adjusted target of 0.624 and, therefore, the sector has met its CCA target.

However, the adjustment for overlap with EU ETS changed the CCA target to 0.594. The sector did not meet its adjusted target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading. One Target Unit had a relevant constraint upheld. It was subject to a disruption in energy supply and as a consequence it did not meet its target. However, it was not required to purchase allowances to meet the target because of the relevant constraint.

The following table shows how the sector has improved relative to the equivalent base year (1990) position at each target period.

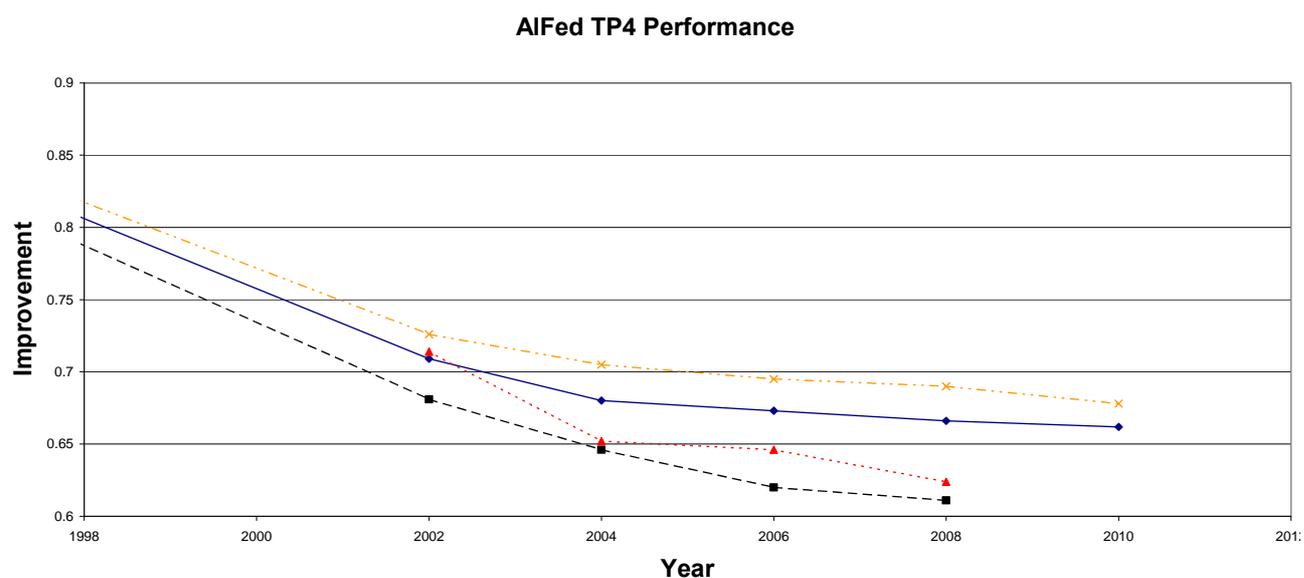
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

³ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	29%	32%
TP2	32%	35%
TP3	33%	38%
TP4	33%	39%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1990) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-29.2	-2,559	
TP2	-42.2	-3,409	
TP3	-47.44	-3,378	
TP4	-54.3	-3,874	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (1990) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-23.0	-2,017	N/A
TP2	-27.6	-2,227	N/A
TP3	-32.62	-2,323	N/A
TP4	-38.9	-2,772	N/A
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

BREWING (BRITISH BEER & PUB ASSOCIATION - BBPA)

Scope and membership of the umbrella agreement

The UK brewing industry is principally represented by the British Beer & Pub Association (BBPA). The BBPA agreement covers over 98% of UK beer production.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per hectolitre of product (kWh_p/hl). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /hl)	TP1(2002) (kWh _p /hl)	TP2(2004) (kWh _p /hl)	TP3(2006) (kWh _p /hl)	TP4(2008) (kWh _p /hl)	TP5(2010) (kWh _p /hl)
Original	64.44	62.50	61.11	59.72	58.33	56.94
At TP1	63.57	62.19	60.80	59.42	58.04	56.65
2004 Review*	-	-	-	2.0%	2.0%	3.5%
At TP2	63.53	-	60.77	58.20	56.84	54.64
At TP3	63.47	-	-	58.14	56.79	54.59
2008 Review*	-	-	-	-	-	7.5%
At TP4	63.43	-	-	-	56.81	50.50

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

The sector operates a collective trading arrangement that, for this target period, encompassed all Target Units within the sector.

- Allowances equivalent to 75 ktCO₂ were ring-fenced
- No allowances were purchased

Overall, there was a net ring-fencing of 75 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 1.640.

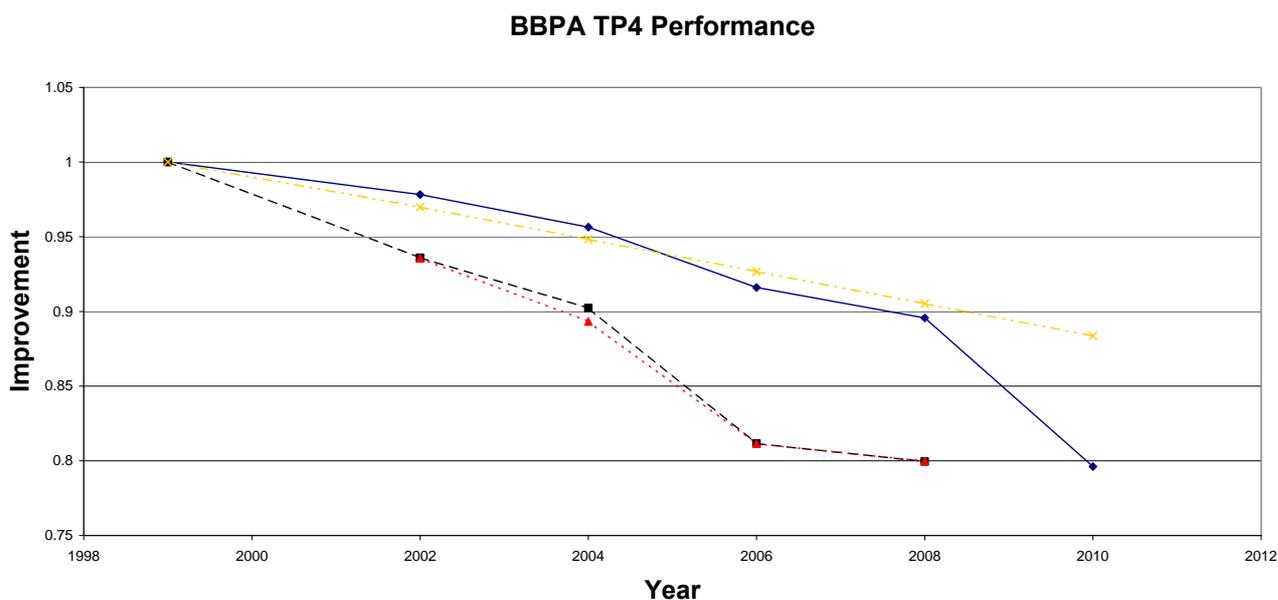
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 50.73 kWh_p/hl. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of –6.08 kWh_p/hl.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁴ baseline for all target periods to date.						
Energy	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (hl)	SEC (kWh _p /hl)	Energy (kWh)	Production (hl)	SEC (kWh _p /hl)
TP1	3,736,825,734	58,781,700	63.57	3,533,012,620	59,378,413	59.50
TP2	3,734,327,427	58,781,885	63.53	3,343,414,659	58,326,371	57.32
TP3	3,726,452,308	58,709,549	63.47	2,913,091,240	56,554,369	51.51
TP4	3,729,210,569	58,793,319	63.43	2,692,974,685	53,106,557	50.71
Adjustment for overlap with EU ETS						
Three Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.						
One Target Unit had its target tightened due to double counting. One Target Unit had its target eased. One Target Unit voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall, there was an EU ETS deficit of –0.5 ktCO ₂ , which resulted in an adjustment (easing) to the CCA target of 0.05 kWh _p /hl. This is included within the adjusted target described above.						
Commentary						
The sector performance of 50.71 kWh _p /hl is below the CCA adjusted target of 50.73 kWh _p /hl and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was deterioration in performance.)						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	2.2%		6.4%			
TP2	4.4%		9.8%			
TP3	8.4%		19%			
TP4	10%		20%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁴ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput had remained constant at the relevant target period throughput level. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-0.9	-44
TP2	-1.3	-66
TP3	-2.4	-123
TP4	-2.4	-122

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.7	-37	1
TP2	-1.4	-71	-1
TP3	-2.9	-148	-4
TP4	-3.7	-187	-10

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

CALCIUM CARBONATE (BRITISH CALCIUM CARBONATE FEDERATION - BCCF)

Scope and membership of the umbrella agreement

The BCCF represents the calcium carbonate sector in the UK that specialises in the processing and supply of this material in a purified form for agricultural, industrial, pharmaceutical and food applications. This Climate Change Agreement (CCA) represents those facilities covered by an Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.

	Baseline kWh _p /t	TP1(2002)	TP2(2004)	TP3(2006) kWh _p /t	TP4(2008) kWh _p /t	TP5(2010) kWh _p /t
Original	160.21	-	-	153.80	150.60	144.19
At TP3*	160.01	-	-	153.61	150.41	144.01
2008 Review**	-	-	-	-	-	1.5%
At TP4	155.86	-	-	-	146.51	138.17

* Note - The targets and baseline at TP3 differ from the original values (i.e. agreed when the umbrella agreement was established) due to a baseline correction.

** The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 1 ktCO₂ were ring-fenced
- Allowances equivalent to 3 ktCO₂ were purchased

Overall there was a net purchase of 2 ktCO₂, equivalent to a sector target change (easing) of 5.42 kWh_p/t (Note - figures rounded for presentation).

Other adjustments

N/A

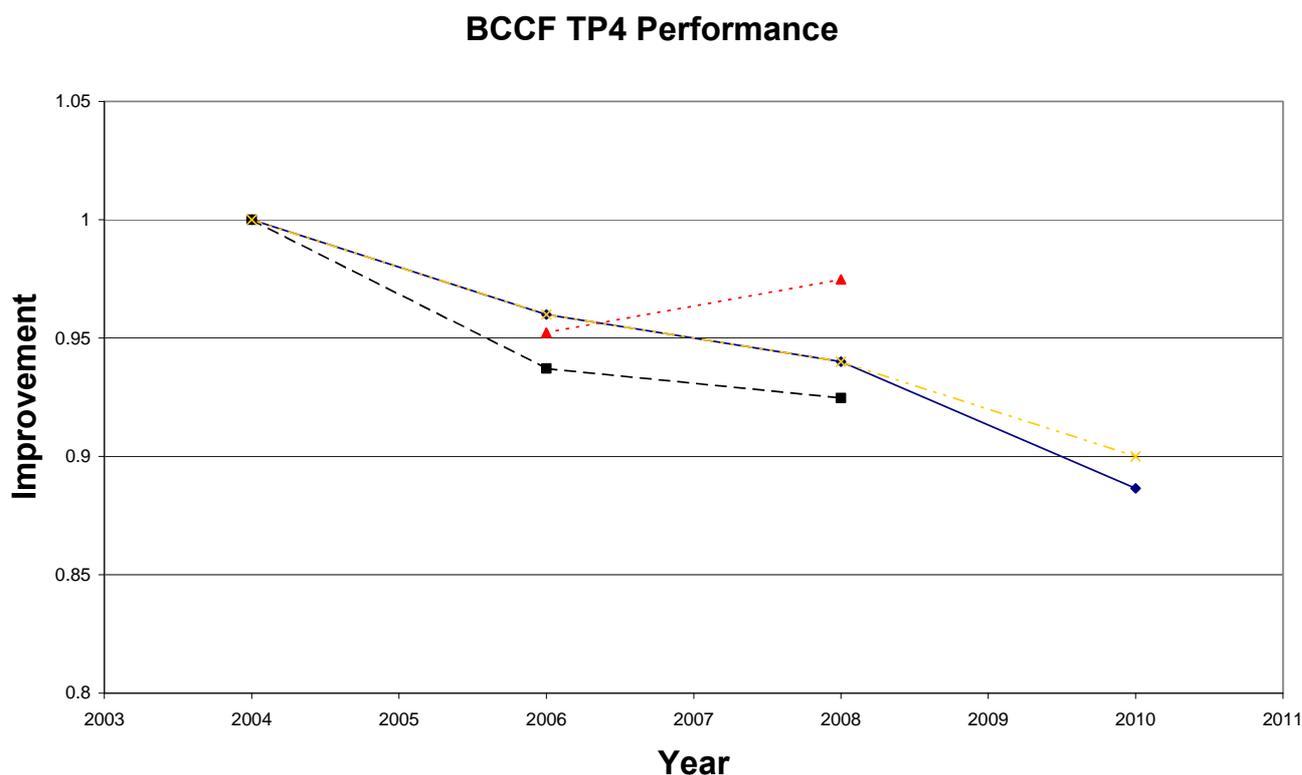
Final adjusted CCA sector target for TP4

As a consequence of the adjustments described above, the final sector target for TP4 was 151.93 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁵ baseline for this target period.						
	Equivalent baseline (2004)			Performance		
	Energy (kWh _p)	Production (tonnes)	SEC (kWh _p /t)	Energy (kWh _p)	Production (tonnes)	SEC (kWh _p /t)
TP3	408,619,112	2,553,668	160.01	374,370,804	2,496,501	149.96
TP4	398,022,901	2,553,668	155.86	339,207,372	2,353,645	144.12
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 144.12 kWh _p /t is below the CCA adjusted target of 151.93 kWh _p /t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP3	4.0%		6.3%			
TP4	6.0%		7.5%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁵ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP3	-0.1	-4.5
TP4	-0.1	-4.9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	-0.1	-6	-2
TP4	-0.2	-11	-8

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

CEMENT (THE MINERAL PRODUCTS ASSOCIATION - MPA)

Scope and membership of the umbrella agreement

The cement industry climate change agreement, formerly administered by the British Cement Association, is now administered by the Mineral Products Association, MPA. The agreement covers the production of Portland cement from all works in the UK that have the ability to manufacture Portland Cement clinker.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per kilogram of cement (kWh_p/kg). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1990 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /kg)	TP1(2002) (kWh _p /kg)	TP2(2004) (kWh _p /kg)	TP3(2006) (kWh _p /kg)	TP4(2008) (kWh _p /kg)	TP5(2010) (kWh _p /kg)
Original	1.678	1.457	1.408	1.298	1.282	1.249
At TP1	1.685	1.463	1.414	1.303	1.287	1.253
2004 Review*	-	-	-	0%	0%	1.5%
At TP2	1.685	-	1.414	1.303	1.287	1.234
At TP3	1.686	-	-	1.304	1.287	1.236
2008 Review*	-	-	-	-	-	4.53%
At TP4	1.686	-	-	-	1.287	1.180

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 611 ktCO₂ were converted to allowances or ring-fenced
- Allowances equivalent to 3 ktCO₂ were purchased

Overall, there was a net ring-fencing of 608 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 1.093 kWh_p/kg. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -0.194 kWh_p/kg.

Sector performance recorded

The following table shows the sector performance against the equivalent⁶ baseline for all target periods to date.

	Equivalent baseline (1990)			Performance		
	Energy (kWh _p)	Production (t)	SEC (kWh _p /kg)	Energy (kWh _p)	Production (t)	SEC (kWh _p /kg)
TP1	23,150,776,000	13,742,000	1.685	16,216,052,805	11,537,195	1.406
TP2	23,150,776,000	13,742,000	1.685	15,658,781,217	11,784,936	1.329
TP3	23,173,627,351	13,740,837	1.686	14,965,180,535	12,248,279	1.222
TP4	23,173,627,351	13,740,837	1.686	11,798,936,137	10,562,155	1.117

Adjustment for overlap with EU ETS

Four Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

One Target Unit had its target eased due to double counting. Three Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall, there was an EU ETS deficit of 74 ktCO₂, which resulted in an adjustment (easing) to the CCA target of 0.027 kWh_p/kg. This is included within the adjusted target described above.

Commentary

The sector performance of 1.117 kWh_p/kg is above the CCA adjusted target of 1.093 kWh_p/kg and, therefore, the sector has not met its adjusted target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1990) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

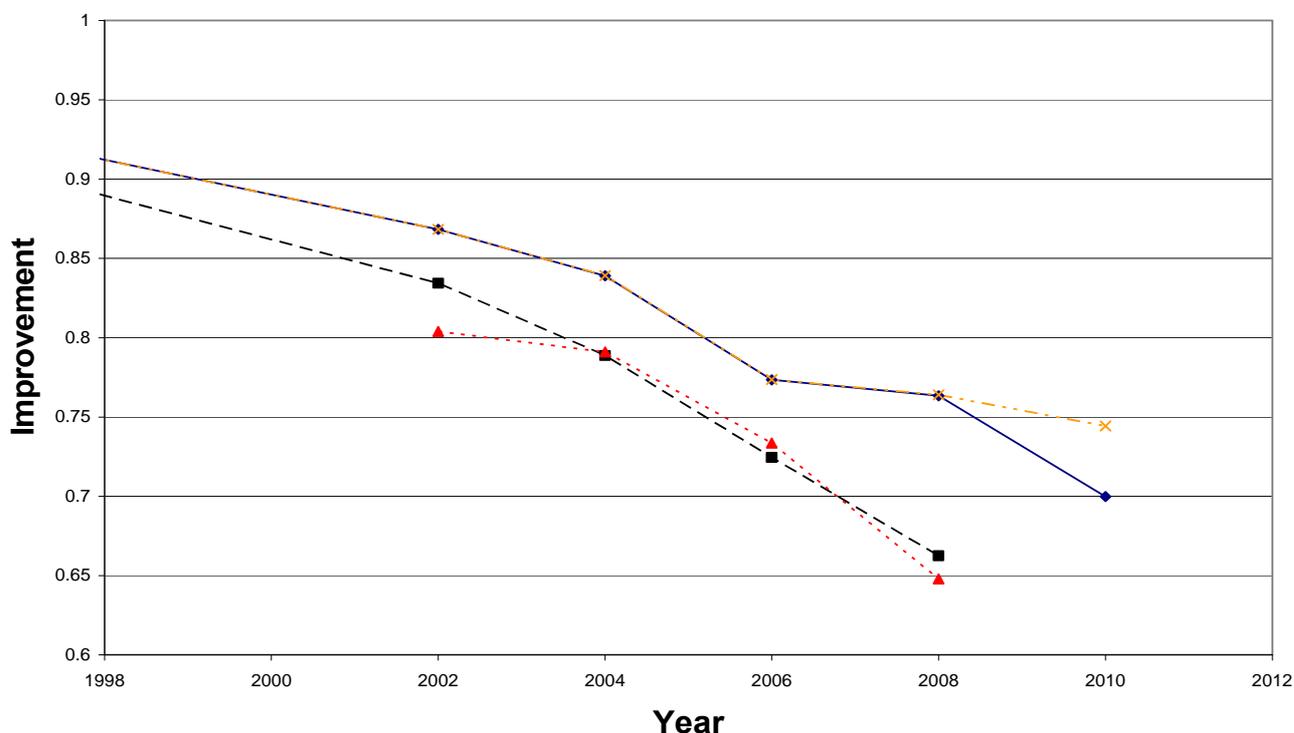
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	13%	17%
TP2	16%	21%
TP3	23%	28%
TP4	24%	34%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

⁶ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BCA TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1990) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period are less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-12	-880	
TP2	-15	-1,136	
TP3	-20	-1,553	
TP4	-22	-1,563	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (1990) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-25	-1,900	-16
TP2	-27	-2,030	-14
TP3	-30	-2,240	-11
TP4	-41	-2,956	-23
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

**CERAMICS - NON-FLETTON BRICK SUB-SECTOR
(BRITISH CERAMIC CONFEDERATION - BCC-01)**

Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has Target Units that have installations in EU ETS.

Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	998	976	953	937	916	903
At TP1	1,020	1,003	985	968	949	938
2004 Review*	-	-	-	0.5%	0.5%	1.1%
At TP2	1,021	-	981	963	944	928
At TP3	987	-	-	959	940	924
2008 Review*	-	-	-	-	-	0%
At TP4	968	-	-	-	938	922

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 14 ktCO₂ were ring-fenced
- Allowances equivalent to 64 ktCO₂ were purchased

Overall there was a net purchase of 50 ktCO₂ (Note - figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

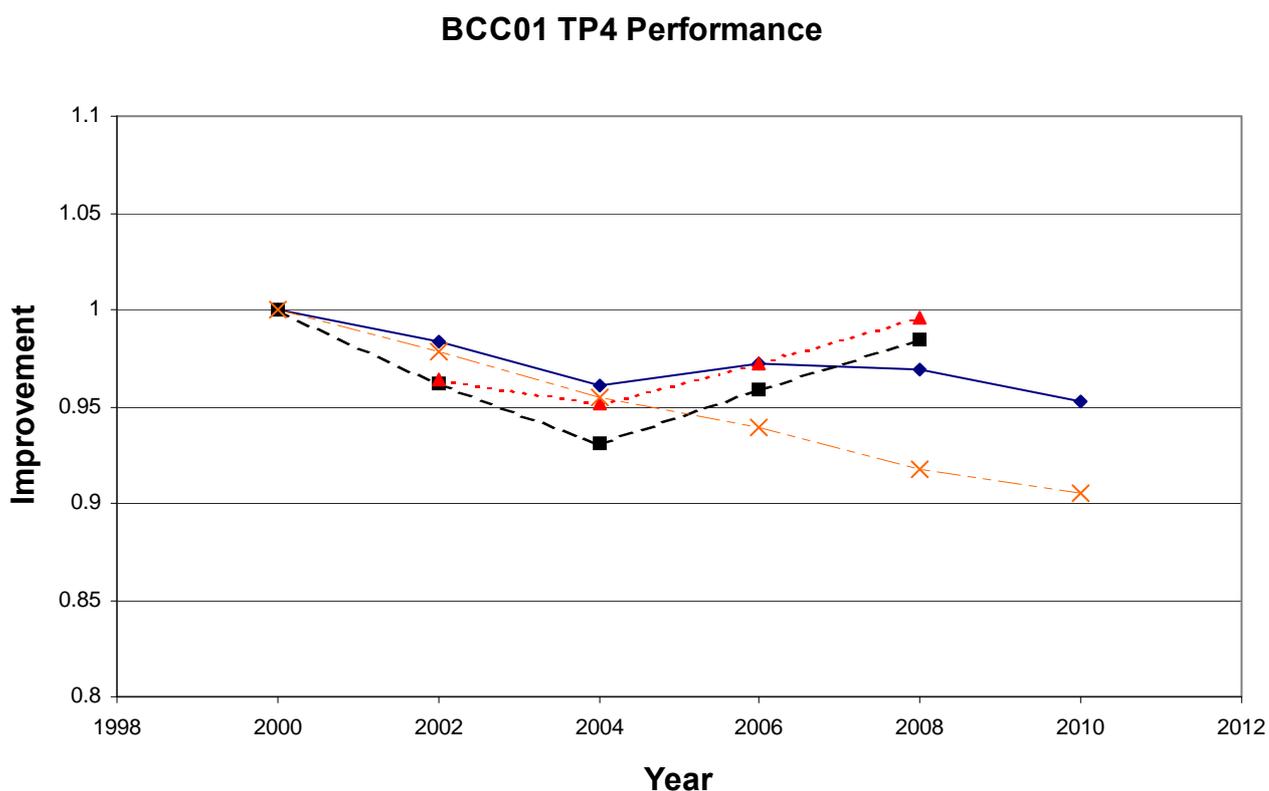
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 964 kWh_p/t. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 26 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁷ baseline for all target periods to date.						
	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	6,458,346,292	6,329,230	1,020	6,082,185,157	6,193,693	982
TP2	6,447,847,970	6,316,708	1,021	6,053,698,015	6,368,491	951
TP3	6,217,555,177	6,300,403	987	5,365,580,575	5,671,401	946
TP4	6,020,468,960	6,216,638	968	4,806,226,746	5,038,518	954
Adjustment for overlap with EU ETS						
10 Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.						
Four Target Units had their targets tightened due to double counting and two had their targets eased. Four Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall, there was an EU ETS excess of 25 ktCO ₂ , which resulted in an adjustment (tightening) to the CCA target of -27 kWh _p /t. This is included within the adjusted target described above.						
Commentary						
The sub-sector performance of 954 kWh _p /t is below the CCA adjusted target of 964 kWh _p /t and, therefore, the sub-sector has met its target. All the facilities reporting have been recertified as the sub-sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	1.7%		3.8%			
TP2	3.9%		6.9%			
TP3	2.8%		4.1%			
TP4	3.1%		1.5%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁷ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-0.9	-45	
TP2	-1.6	-84	
TP3	-0.8	-44	
TP4	-0.3	-14	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-1.4	-71	-2
TP2	-1.4	-74	1
TP3	-3.1	-162	-10
TP4	-4.4	-229	-19
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

**CERAMICS - FLETTON BRICK SUB-SECTOR
(BRITISH CERAMIC CONFEDERATION - BCC-02)**

Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sub-sector are expressed in primary kWh per 1,000 bricks (kWh_p/1,000). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/1,000)	TP1(2002) (kWh_p/1,000)	TP2(2004) (kWh_p/1,000)	TP3(2006) (kWh_p/1,000)	TP4(2008) (kWh_p/1,000)	TP5(2010) (kWh_p/1,000)
Original	716	710	699	686	672	659
At TP1	775	768	756	742	727	713
2004 Review*	-	-	-	-11.5%	-11.5%	-11.5%
At TP2	775	-	756	828	811	795
At TP3	768	-	-	828	811	795
2008 Review*	-	-	-	-	-	0%
AT TP4	768	-	-	-	811	795

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- No allowances were ring-fenced
- No allowances were purchased

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

The final sector target for the TP4 was 811 kWh_p/1,000.

Sector performance recorded

The following table shows the sector performance against the equivalent⁸ baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /1,000)	Energy (kWh)	Production (t)	SEC (kWh _p /1,000)
TP1	250,771,080	323,680	775	280,477,146	324,699	864
TP2	250,771,080	323,680	775	354,153,766	326,351	1085
TP3	248,657,890	323,689	768	336,596,872	307,986	1093
TP4	248,657,890	323,689	768	188,939,538	234,133	807

Adjustment for overlap with EU ETS

No Target Units reporting at TP4 are part of EU ETS so no adjustments were required.

Commentary

The sub-sector performance of 807 kWh_p/1,000 is below the CCA adjusted target of 811 kWh_p/1,000 and, therefore, the sub-sector has met its target. The single facility in this sub-sector has been recertified as it has met its target.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

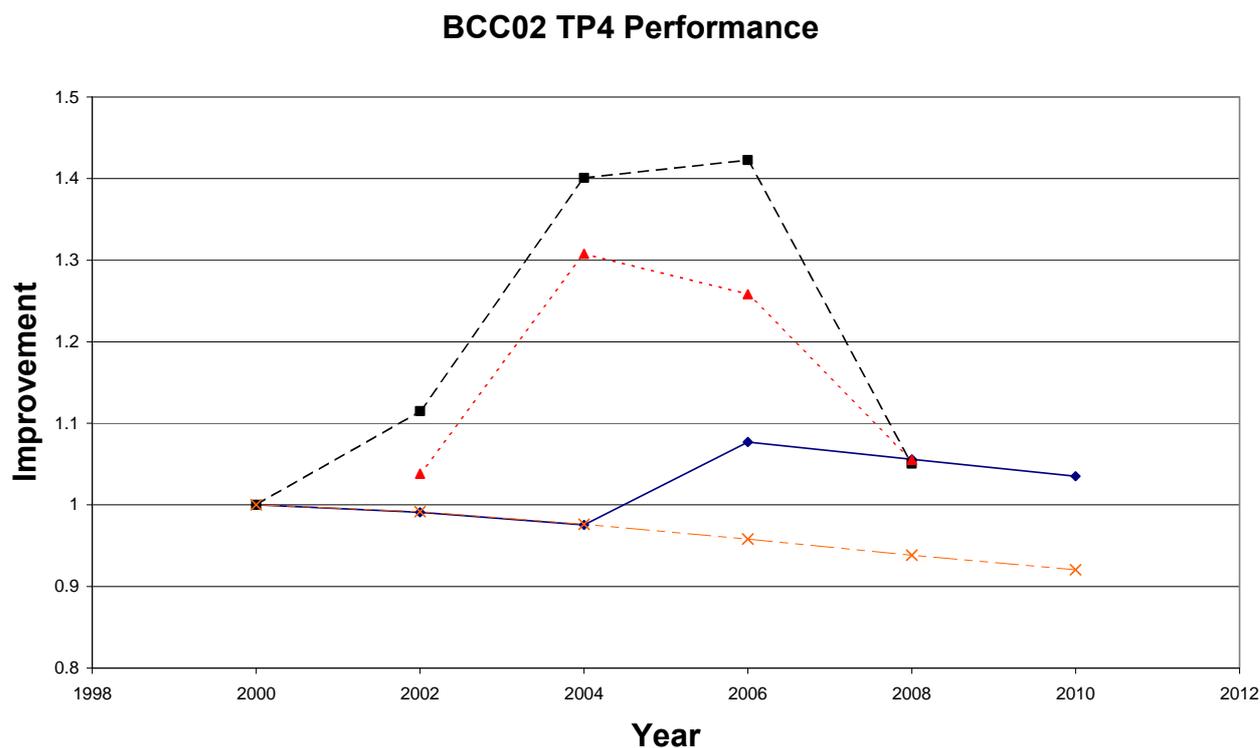
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	0.9%	-11%
TP2	2.5%	-40%
TP3	-7.7%	-42%
TP4	-5.6%	-5%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

⁸ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	0.1	6	
TP2	0.4	20	
TP3	0.4	19	
TP4	0.03	2	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	0.1	6	0
TP2	0.4	20	1
TP3	0.3	17	-5
TP4	-0.2	-11	-28
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

**CERAMICS - REFRACTORIES SUB-SECTOR
(BRITISH CERAMIC CONFEDERATION - BCC-03)**

Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has Target Units that have installations in EU ETS.

Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	3,290	3,196	3,145	3,073	3,033	2,974
At TP1	3,665	3,616	3,599	3,559	3,502	3,436
2004 Review*	-	-	-	0.5%	0.5%	1.1%
At TP2	3,924	-	3,843	3,786	3,725	3,655
At TP3	3,753	-	-	3,691	3,637	3,578
2008 Review*	-	-	-	-	-	0%
At TP4	3,657	-	-	-	3,546	3,483

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 21 ktCO₂ were converted to allowances or ring-fenced
- Allowances equivalent to 28 ktCO₂ were purchased

Overall there was a net purchase of 6 ktCO₂, equivalent to a sector target change (easing) of 125 kWh_p/t (Note - figures rounded for presentation).

Other adjustments

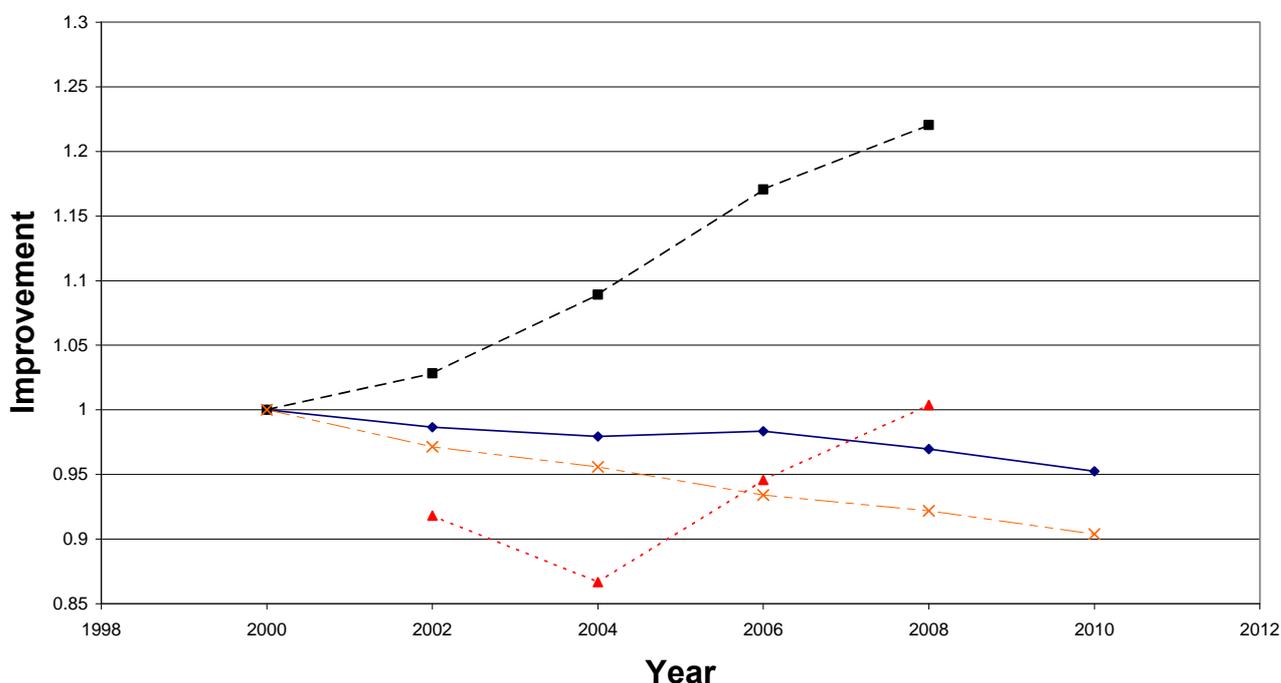
No other adjustments were made.

Final adjusted CCA sector target for the TP4						
As a consequence of the adjustments described above, the final sector target for the TP4 was 3,671 kWh _p /t.						
Sector performance recorded						
The following table shows the sector performance against the equivalent ⁹ baseline for all target periods to date.						
	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh_p/t)	Energy (kWh)	Production (t)	SEC (kWh_p/t)
TP1	1,786,154,983	487,368	3,665	1,444,652,751	383,318	3,769
TP2	1,915,049,883	488,082	3,924	1,425,440,064	333,524	4,274
TP3	1,789,795,353	476,873	3,753	1,346,340,639	306,467	4,393
TP4	1,702,800,311	465,616	3,657	1,193,034,173	267,303	4,463
Adjustment for overlap with EU ETS						
1 Target Unit reporting at TP4 is part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. This Target Unit was required to adjust its target for double counting between these two schemes.						
The Target Unit voluntarily retired all of its surplus EU ETS allowances and so an adjustment to its CCA target was not required.						
Commentary						
The sub-sector performance of 4,463 kWh _p /t is above the CCA adjusted target of 3,671 kWh _p /t and, therefore, the sub-sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.						
The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement			Actual Improvement		
TP1	1.3%			-2.8%		
TP2	2.1%			-8.9%		
TP3	1.7%			-17%		
TP4	3.0%			-22%		
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BCC03 TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	0.1	7	
TP2	0.4	21	
TP3	0.7	36	
TP4	0.8	40	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-1.2	-62	-21
TP2	-1.8	-89	-32
TP3	-1.6	-81	-36
TP4	-1.8	-93	-43
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

**CERAMICS - WHITEWARES SUB-SECTOR
(BRITISH CERAMIC CONFEDERATION - BCC-04)**

Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	9,971	9,701	9,098	8,979	8,935	8,787
At TP1	10,764	10,362	9,767	9,637	9,509	9,385
2004 Review*	-	-	-	6.7%	6.7%	6.9%
At TP2	10,833	-	9,215	9,046	8,924	8,789
At TP3	9,476	-	-	8,143	8,043	7,935
2008 Review*	-	-	-	-	-	2.93%
At TP4	9,346	-	-	-	7,903	7,558

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 15 ktCO₂ were ring-fenced
- Allowances equivalent to 24 ktCO₂ were purchased

Overall there was a net purchase of 10 ktCO₂, equivalent to a sector target change (easing) of 247 kWh_p/t (Note - figures rounded for presentation).

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 8,150 kWh_p/t.

Sector performance recorded

The following table shows the sector performance against the equivalent¹⁰ baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	3,008,111,786	279,463	10,764	2,689,636,559	284,887	9,441
TP2	2,985,138,257	275,571	10,833	2,196,929,837	248,338	8,847
TP3	2,467,593,027	260,394	9,476	1,760,223,036	237,678	7,406
TP4	2,379,681,949	254,632	9,346	1,442,935,537	212,670	6,785

Adjustment for overlap with EU ETS

No Target Units reporting at TP4 are part of EU ETS, so no adjustments were required.

Commentary

The sub-sector performance of 6,785 kWh_p/t is below the CCA adjusted target of 8,150 kWh_p/t and, therefore, the sub-sector has met its target. All the facilities reporting have been recertified as the sub-sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

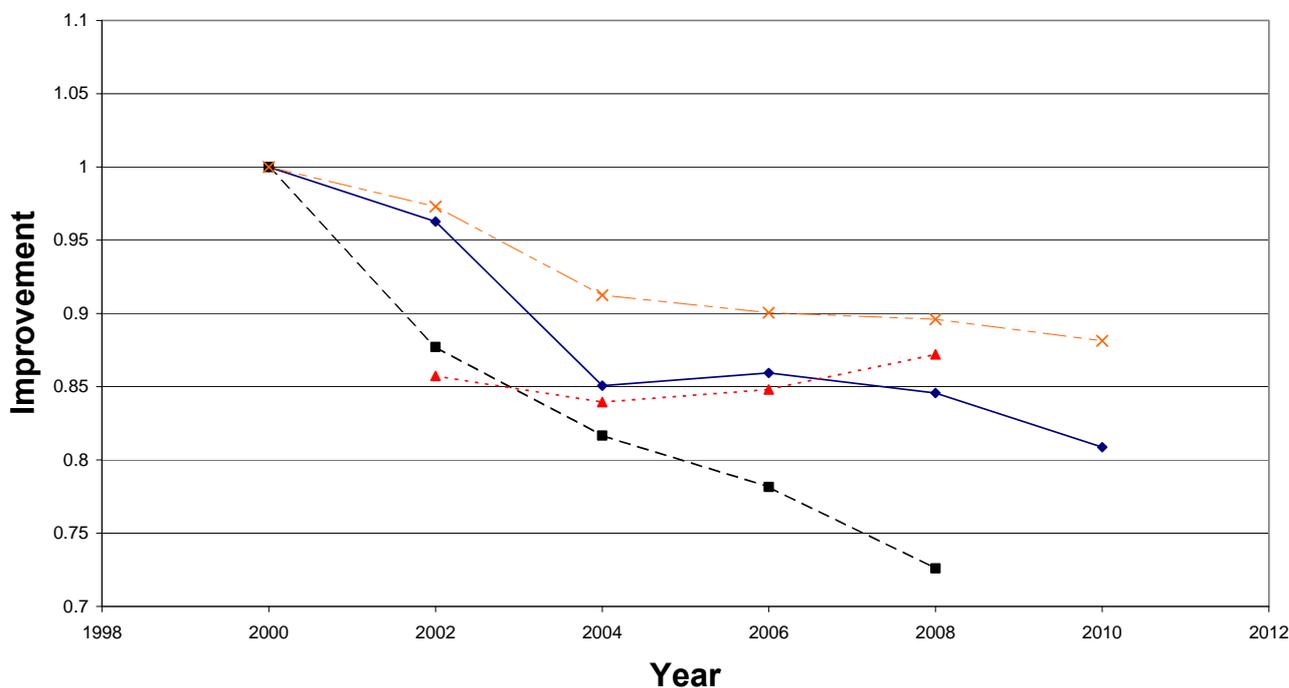
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	3.7%	12%
TP2	15%	18%
TP3	14%	22%
TP4	15%	27%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

¹⁰ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BCC04 TP4 Performance



Key

- ◆— Target profile
- Actual performance
- .-▲-.- Target after adjustments
- - × - - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-1.4	-68	
TP2	-1.8	-88	
TP3	-1.8	-90	
TP4	-2.0	-99	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-1.2	-58	2
TP2	-2.8	-141	-10
TP3	-2.6	-130	-9
TP4	-3.4	-171	-16
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

**CERAMICS - MATERIALS SUB-SECTOR
(BRITISH CERAMIC CONFEDERATION - BCC-05)**

Scope and membership of the umbrella agreement

BCC represents the ceramics manufacturing industry in the UK, including potteries, heavy clay products including non-fletton bricks, fletton bricks, refractories and industrial ceramics and ceramic materials.

This sub-sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sub-sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	1,264	1,234	1,204	1,174	1,155	1,137
At TP1	985	960	937	915	900	888
2004 Review*	-	-	-	12.3%	12.5%	12.7%
At TP2	1,053	-	902	858	842	829
At TP3	827	-	-	770	756	744
2008 Review*	-	-	-	-	-	3.48%
At TP4	989	-	-	-	789	749

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 4 ktCO₂ were ring-fenced
- Allowances equivalent to 4 ktCO₂ were purchased

Overall, there was a net ring-fencing of 0.7 ktCO₂, equivalent to a sector target change (tightening) of -5 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

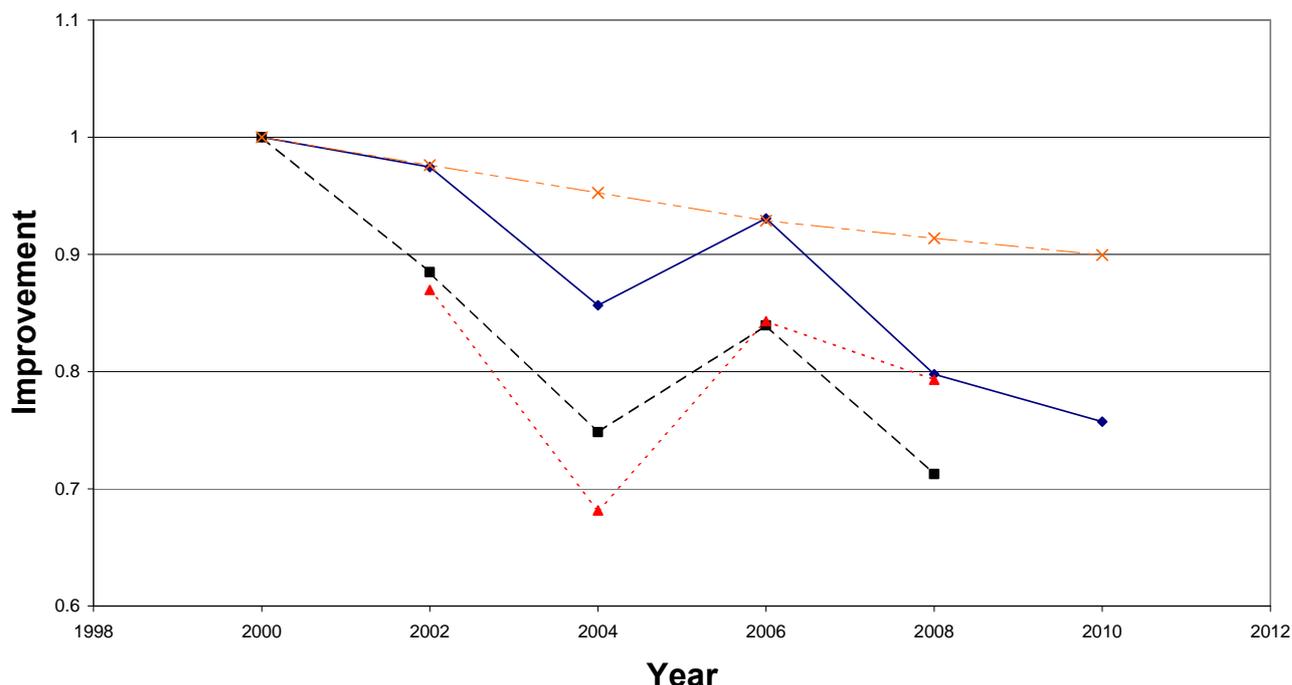
As a consequence of the adjustments, the final sector target for the TP4 was 784 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ¹¹ baseline for all target periods to date.						
	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	519,839,262	527,970	985	502,703,897	576,909	871
TP2	578,907,261	549,812	1,053	459,689,951	583,383	788
TP3	419,351,980	506,951	827	392,461,607	565,212	694
TP4	871,537,851	881,445	989	526,057,903	746,617	705
Adjustment for overlap with EU ETS						
No Target Units reporting at TP4 are part of EU ETS, so no adjustments were required.						
Commentary						
The sub-sector performance of 705 kWh _p /t is below the CCA adjusted target of 784 kWh _p /t, and, therefore, the sub-sector has met its target. All the facilities reporting have been recertified as the sub-sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	2.5%		11%			
TP2	14%		25%			
TP3	6.9%		16%			
TP4	20%		29%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

¹¹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BCC05 TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-0.2	-12	
TP2	-0.6	-28	
TP3	-0.3	-14	
TP4	-0.8	-40	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.1	-3	9
TP2	-0.4	-22	6
TP3	-0.1	-5	12
TP4	-1.2	-65	-15
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

CHEMICAL (CHEMICAL INDUSTRIES ASSOCIATION - CIA)

Scope and membership of the umbrella agreement

The chemicals sector covers a range of activities from continuous bulk chemical operations to small batch production of speciality chemicals. The agreement is operated through CIABATA, a wholly owned subsidiary of the Chemical Industries Association.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed as an energy efficiency improvement ratio. The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008)	TP5(2010)
Original	1	0.877	0.850	0.835	0.822	0.817
At TP1	1	0.908	0.879	0.864	0.850	0.845
2004 Review*	-	-	-	3.6%	3.5%	4.0%
At TP2	1	-	0.879	0.832	0.819	0.810
At TP3	1	-	-	0.820	0.808	0.801
2008 Review*	-	-	-	-	-	0%
At TP4	1	-	-	-	0.806	0.799

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The sector targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews. The 2008 review also includes agreement to remove the facility to apply the NOVEM method asymmetrically at target unit level – based on TP4 throughput levels, this rule change is equivalent to a further saving of 127 ktCO₂ (35ktC) or 1.2%.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 837 ktCO₂ were ring-fenced
- Allowances equivalent to 728 ktCO₂ were purchased

Overall, there was a net ring-fencing of 109 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 0.012 units.

A double counting adjustment was made (see details below).

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 0.809. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector

target change (easing) of 0.003.

Sector performance recorded

The following table shows the sector performance against the equivalent¹² baseline for all target periods to date.

	Equivalent baseline (1998)			Performance		
	Energy (TJ)	Production	Energy Efficiency Ratio (EER)	Energy (TJ)	Production	Energy Efficiency Ratio (EER)
TP1	322,823	N/A	1	288,073	N/A	0.855
TP2	308,449	N/A	1	279,203	N/A	0.805
TP3	269,979	N/A	1	230,377	N/A	0.799
TP4	261,510	N/A	1	203,898	N/A	0.814

Adjustment for overlap with EU ETS

49 Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

7 Target Units had their targets tightened due to double counting and 8 had their targets eased. 34 Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall, there was an EU ETS deficit of 43 ktCO₂, which resulted in an adjustment (easing) to the CCA target of 0.004. This is included within the adjusted target described above.

Commentary

The sector performance of 0.814 is above the CCA adjusted target of 0.809 and, therefore, the sector has not met its target. Four facilities were decertified. All other facilities were recertified, either because they have met their individual targets outright, or through trading. One target unit was subject to a disruption in energy supply and reported an equivalent reduction in energy used.

The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

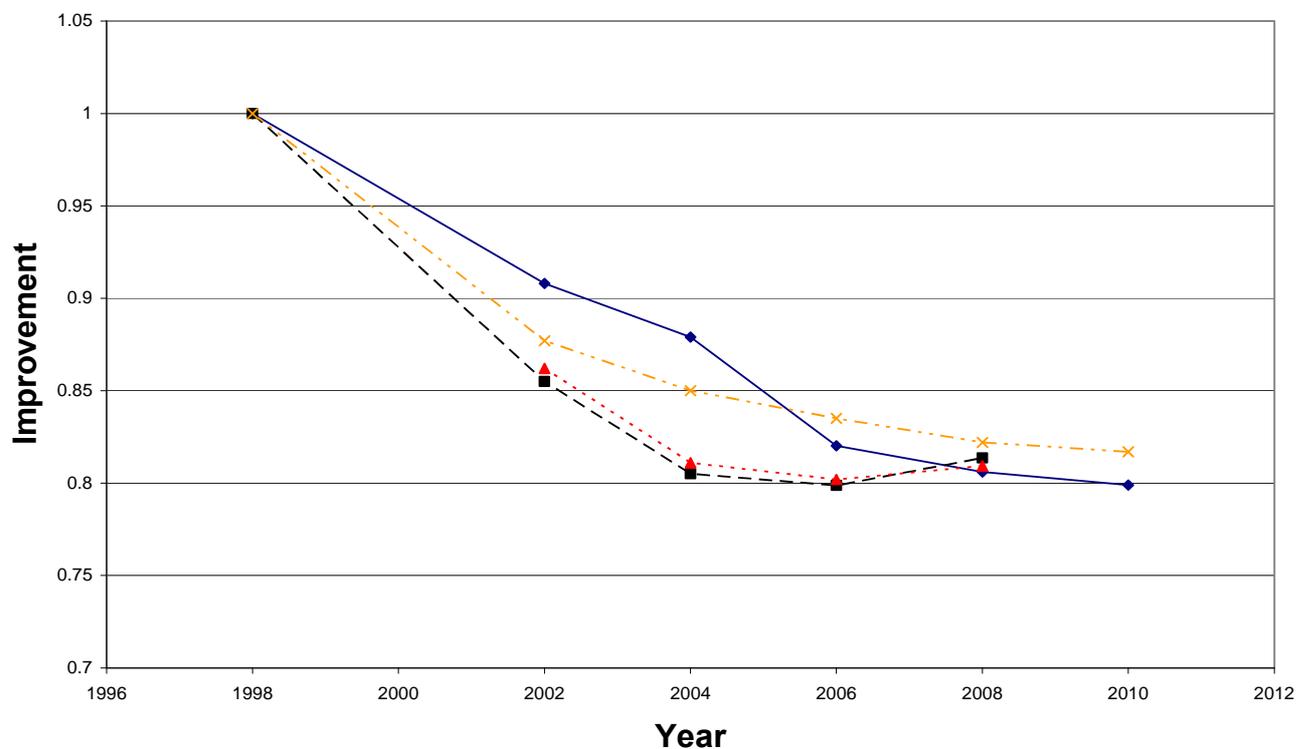
	Improvement in EER compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	9.2%	15%
TP2	12%	20%
TP3	18%	20%
TP4	19.4%	18.6%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

¹² Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

CIA TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-49	-2,500
TP2	-68	-3,524
TP3	-58	-2,977
TP4	-47	-2,398

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-35	-2,000	N/A
TP2	-29	-1,520	N/A
TP3	-40	-2,031	N/A
TP4	-58	-2,958	N/A

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

CLEVELAND POTASH LTD (CPL)

Scope and membership of the umbrella agreement

This agreement is a single company agreement with Cleveland Potash Ltd, covering the production of potassium chloride from Sylvinite (potassium chloride ore), containing a mixture of potassium chloride, sodium chloride, clay and anhydrite, by sub-surface mining followed by separation and purification. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 4 (TP4).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	735.47	-	-	-	706.05	661.92
At TP4	735.47	-	-	-	706.05	661.92

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 13 ktCO₂ were purchased

Overall there was a net purchase of 13 ktCO₂, equivalent to a sector target change (easing) of 95.13 kWh_p/t (Note - figures rounded for presentation).

Other adjustments

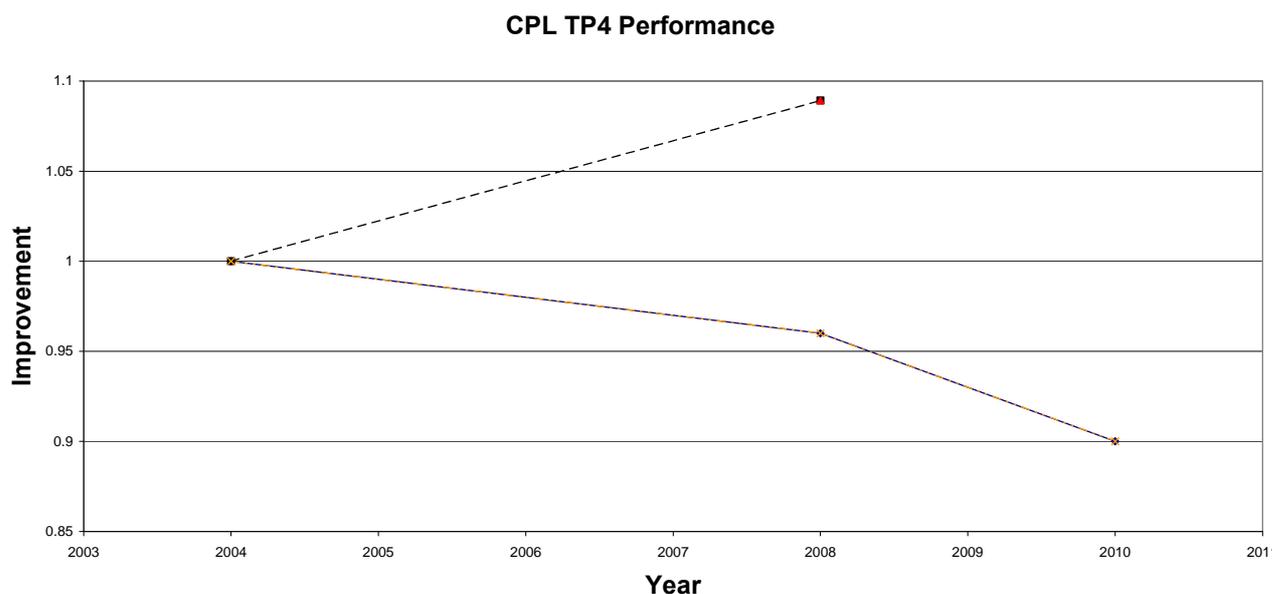
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 801.18 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ¹³ baseline for all target periods to date.						
	Equivalent baseline (2004)			Performance		
	Energy (kWh_p)	Production (t)	SEC (kWh_p/t)	Energy (kWh_p)	Production (t)	SEC (kWh_p/t)
TP4	662,742,306	901,113	735.47	613,010,690	765,182	801.13
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 801.13 kWh _p /t is below the CCA adjusted target of 801.18 kWh _p /t and, therefore, the sector has met its target. The facility has been recertified as the sector has met its target.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement			Actual Improvement		
TP4	4.0%			-8.9%		

¹³ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP4	0.2	9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP4	-0.2	-9	-15%

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

**COLD STORES
(FOOD STORAGE AND DISTRIBUTION FEDERATION - FSDF)**

Scope and membership of the umbrella agreement

This sector consists of logistics companies that own cold storage facilities whose predominant function is temperature-controlled storage below ambient temperature. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 4 (TP4).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per metre cubed (kWh_p/m^3). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2006 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/m^3)	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008) (kWh_p/m^3)	TP5(2010) (kWh_p/m^3)
Original	93.43	N/A	N/A	N/A	88.76	82.22
At TP4	102.37	N/A	N/A	N/A	98.16	90.09

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 11 ktCO₂ were ring-fenced
- Allowances equivalent to 11 ktCO₂ were purchased

Overall, there was a net ring-fencing of 0.4 ktCO₂, equivalent to a sector target change (tightening) of $-0.12 \text{ kWh}_p/\text{m}^3$ (Note – figures rounded for presentation).

Other adjustments

No other adjustments were made.

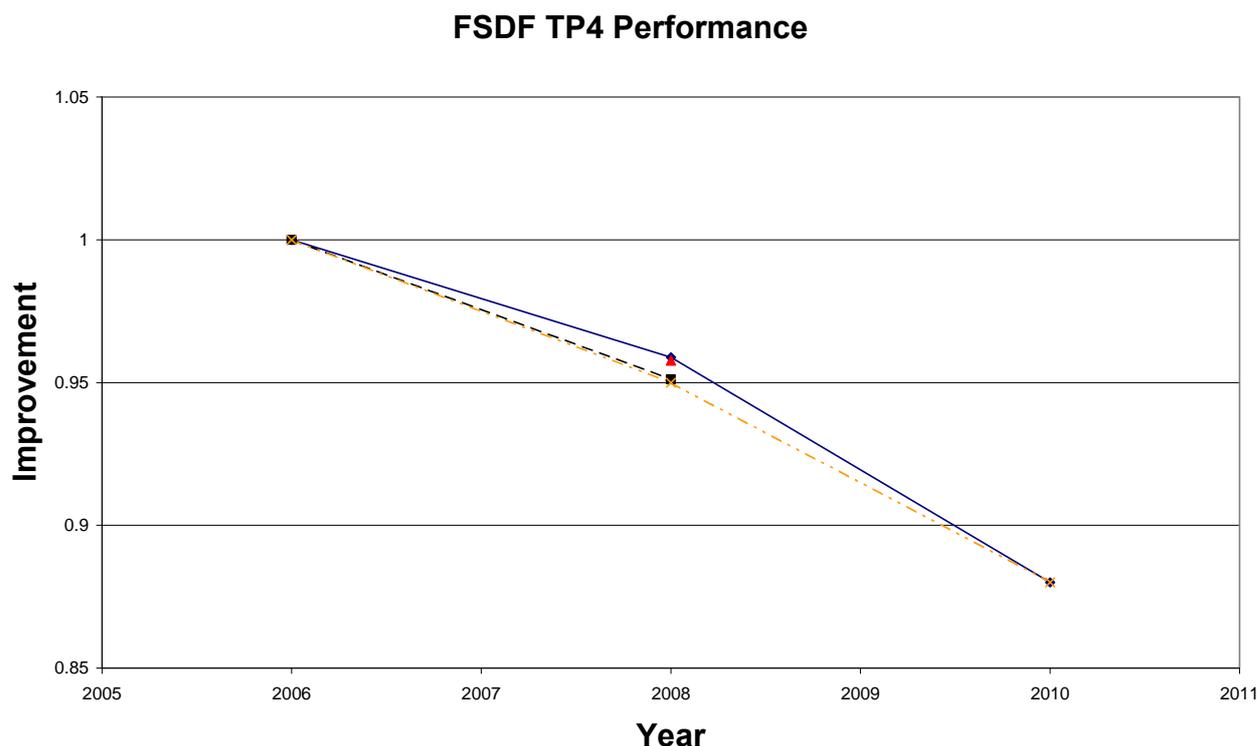
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was $98.04 \text{ kWh}_p/\text{m}^3$.

Sector performance recorded						
The following table shows the sector performance against the equivalent ¹⁴ baseline for all target periods to date.						
TP4	Equivalent baseline (2006)			Performance		
	Energy (kWh _p)	Production (m ³)	SEC (kWh _p /m ³)	Energy (kWh _p)	Production (m ³)	SEC (kWh _p /m ³)
TP4	1,945,435,070	19,003,534	102.37	1,856,586,095	19,067,412	97.37
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 97.37 kWh _p /m ³ is below the CCA adjusted target of 98.04 kWh _p /m ³ , and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2006) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement			Actual Improvement		
TP4	4.1%			4.9%		

¹⁴ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have changed compared with the equivalent base-year (2006) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline Energy (PJ)	CO ₂ (kilotonnes)
TP4	-0.3	-15.9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2006) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP4	-0.3	-14.8	0.3

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

CRAFT BAKING (NATIONAL ASSOCIATION OF MASTER BAKERS – NAMB/SAMB)

Scope and membership of the umbrella agreement

The Master Bakers sector is represented by the National Association of Master Bakers (NAMB) throughout the UK, except for Scotland where the Scottish Association of Master Bakers (SAMB) represents the sector. The agreement covers the craft baking industry, which is generally distinguished from industrial bakeries by a smaller scale of operation, a greater range of products produced by individual sites and the linking of bakery operations with dedicated high-street shops.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh per £k added value (kWh_p/£k). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/£k)	TP1(2002) (kWh_p/£k)	TP2(2004) (kWh_p/£k)	TP3(2006) (kWh_p/£k)	TP4(2008) (kWh_p/£k)	TP5(2010) (kWh_p/£k)
Original	1,664.4	1,643.3	1,614.0	1,590.9	1,561.6	1,532.2
At TP1	1,678.9	1,659.1	1,631.2	1,608.8	1,580.7	1,552.7
2004 Review*	-	-	-	18.0%	20.0%	22.1%
At TP2	1,679.0	-	1,632.7	1,320.0	1,265.0	1,210.0
At TP3	1,657.3	-	-	1,233.4	1,182.3	1,130.9
2008 Review*	-	-	-	-	-	2.0%
At TP4	1,663.5	-	-	-	1,197.7	1,122.5

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 10 ktCO₂ were purchased

Overall there was a net purchase of 10 ktCO₂, equivalent to a sector target change (easing) of 50.4 kWh_p/£k (Note - figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

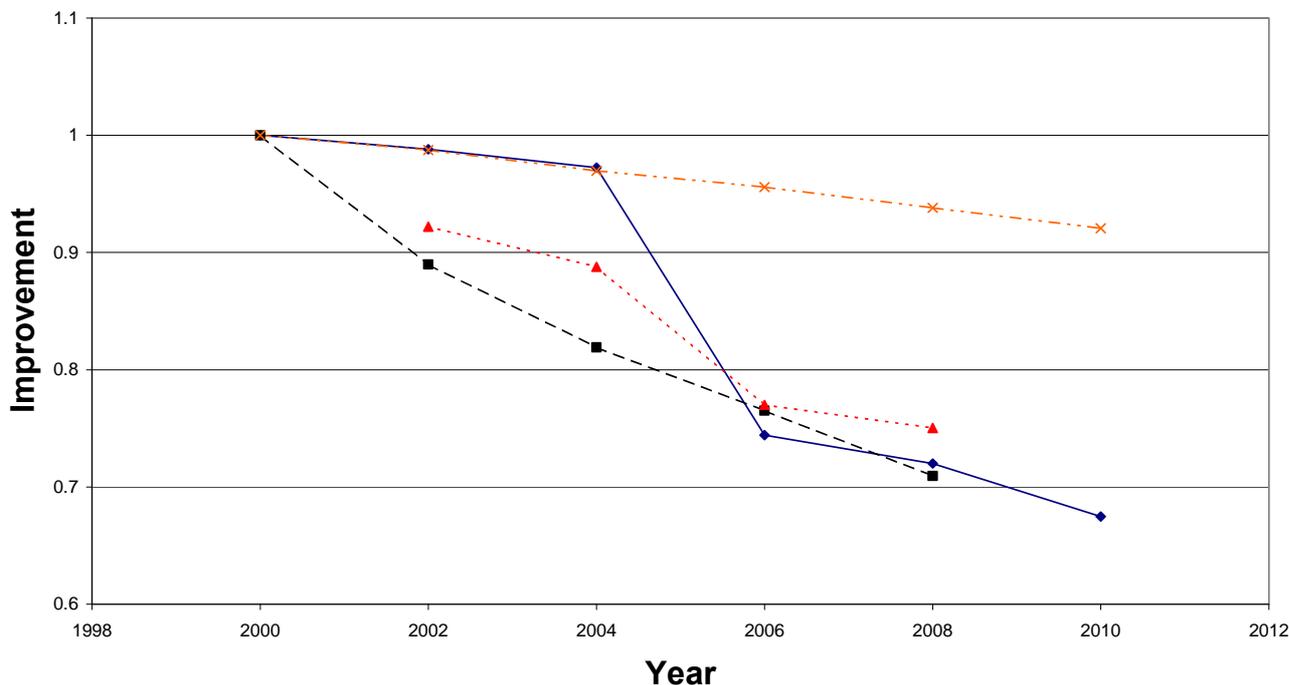
As a consequence of the adjustments described above, the final sector target for the TP4 was 1,248.1 kWh/£k added value.

Sector performance recorded						
The following table shows the sector performance against the equivalent ¹⁵ baseline for all target periods to date.						
	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (£k)	SEC (kWh/£k)	Energy (kWh)	Production (£k)	SEC (kWh/£k)
TP1	1,180,917,147	703,388	1,678.9	1,235,688,419	827,193	1,493.8
TP2	1,195,096,773	711,777	1,679.0	1,363,756,706	991,595	1,375.3
TP3	1,137,375,882	686,298	1,657.3	1,325,256,615	1,045,156	1,268.0
TP4	1,055,836,555	634,717	1,663.5	1,310,009,664	1,110,241	1,179.9
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS, so no adjustments were required.						
Commentary						
The sector performance of 1,179.9 kWh/£k added value is below the CCA adjusted target of 1,248.1 kWh/£k added value and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	1.2%		11%			
TP2	2.8%		18%			
TP3	26%		23%			
TP4	28%		29%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

¹⁵ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

NAMB TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.6	-27
TP2	-1.1	-52
TP3	-1.5	-71
TP4	-1.9	-93

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	0.2	9	18
TP2	0.6	29	39
TP3	0.7	33	52
TP4	0.9	44	75

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

DAIRY PROCESSING (DAIRY UK)

Scope and membership of the umbrella agreement

The agreement with the dairy industry is with Dairy Energy Savings Ltd (established by Dairy UK, formerly the Dairy Industry Association). The agreement covers the majority of the UK production of dairy produce from raw milk and raw-milk products.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	553.16	469.57	458.89	454.41	449.65	444.76
At TP1	552.86	478.22	466.88	462.03	456.81	451.46
2004 Review*	-	-	-	2.25%	3.5%	4.5%
At TP2	554.85	-	484.52	470.18	459.20	449.48
At TP3	525.94	-	-	457.88	447.10	437.52
2008 Review*	-	-	-	-	-	7.25%
At TP4	511.31	-	-	-	453.63	410.72

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 111 ktCO₂ were converted to allowances or ring-fenced
- Allowances equivalent to 46 ktCO₂ were purchased

Overall there was a net ring-fencing of 65 ktCO₂ (Note - figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

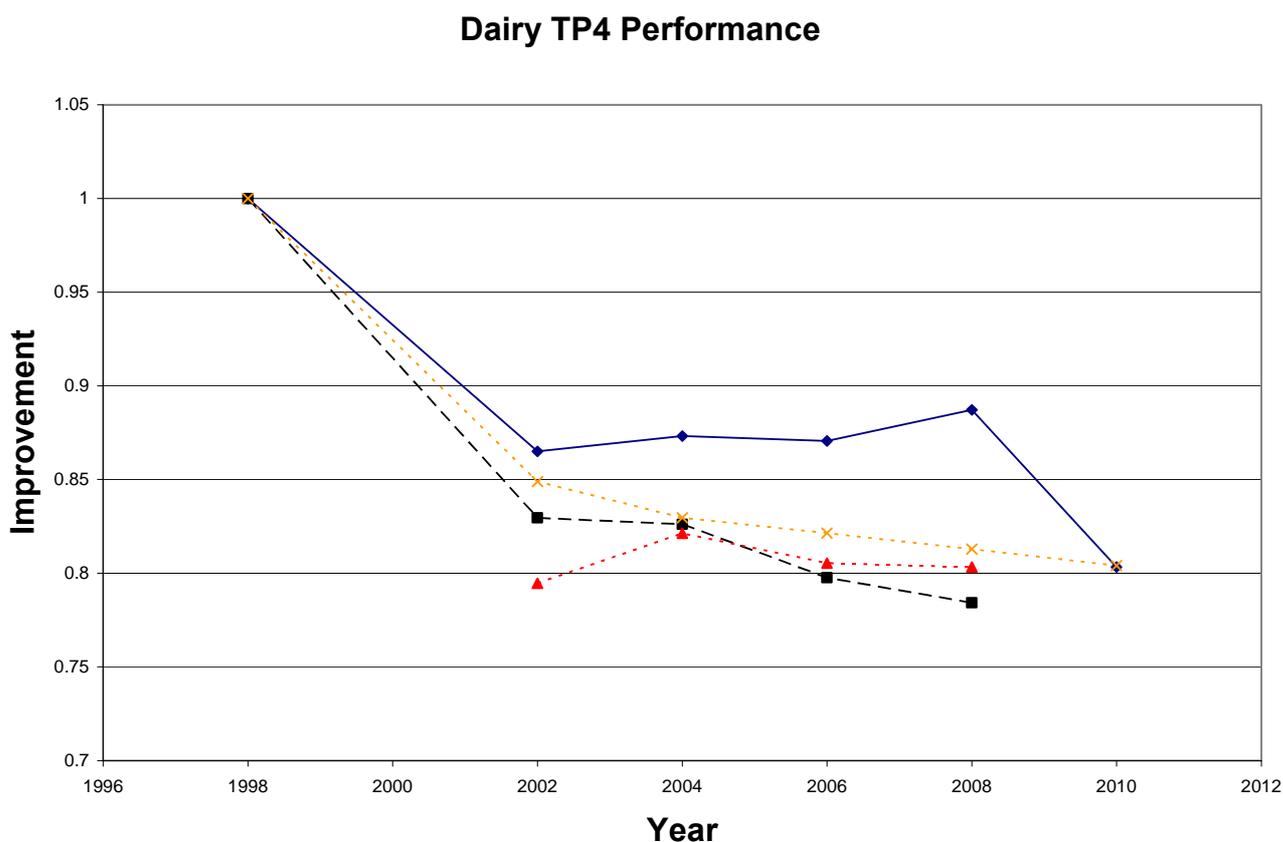
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 420.06 kWh_p/t. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -33.56 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ¹⁶ baseline for all target periods to date.						
	Equivalent baseline (1998)			Performance		
	Energy (kWh)	Production (t)	SEC (kWhp/t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	5,035,411,314	9,107,919	552.86	4,738,092,300	10,329,975	458.67
TP2	4,709,490,251	8,487,856	554.85	4,606,223,806	10,049,414	458.36
TP3	4,228,213,890	8,039,301	525.94	4,169,236,378	9,938,564	419.50
TP4	4,150,745,904	8,117,841	511.31	3,937,516,187	9,818,787	401.02
Adjustment for overlap with EU ETS						
Seven Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.						
One Target Unit had its targets tightened due to double counting and one had its target eased. The remaining five target units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall, there was an EU ETS excess of 292 ktCO ₂ , which resulted in an adjustment (tightening) to the CCA target of -0.2 kWh _p /t. This is included within the adjusted target described above.						
Commentary						
The sector performance of 401.02 kWh _p /t is below the CCA adjusted target of 420.06 kWh _p /t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	13.5%		17.0%			
TP2	12.7%		17.4%			
TP3	12.9%		20.2%			
TP4	11.3%		21.6%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

¹⁶ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-3.5	-190	
TP2	-3.5	-186	
TP3	-3.8	-202	
TP4	-3.9	-206	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-1.1	-58	13
TP2	-0.4	-20	18
TP3	-0.2	-11	24
TP4	-0.8	-40	21
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

EGG PROCESSING (BRITISH EGG PRODUCTS ASSOCIATION - BEPA)

Scope and membership of the umbrella agreement

The BEPA agreement covers all the major producers of egg products. Production includes liquid and frozen egg, mayonnaise, boiled eggs and other cooked-egg products.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per kilogram of product (kWh_p/kg). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent baseline for this sector as originally agreed and at each target period (TP) to date. (Participants have different baselines from 1995, which is used here as the nominal baseline year.)

	Baseline (kWh _p /kg)	TP1(2002) (kWh _p /kg)	TP2(2004) (kWh _p /kg)	TP3(2006) (kWh _p /kg)	TP4(2008) (kWh _p /kg)	TP5(2010) (kWh _p /kg)
Original	1.119	1.041	1.022	1.007	0.990	0.970
At TP1	1.245	1.118	1.096	1.079	1.061	1.038
2004 Review*	-	-	-	11.7%	16.1%	17.2%
At TP2	1.024	-	0.946	0.822	0.764	0.738
At TP3	1.033	-	-	0.829	0.771	0.744
2008 Review*	-	-	-	-	-	7.0%
At TP4	1.052	-	-	-	0.784	0.704

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 1 ktCO₂ were ring-fenced
- Allowances equivalent to 4 ktCO₂ were purchased

Overall there was a net purchase of 3 ktCO₂, equivalent to a sector target change (easing) of 0.174 kWh_p/kg (Note - figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

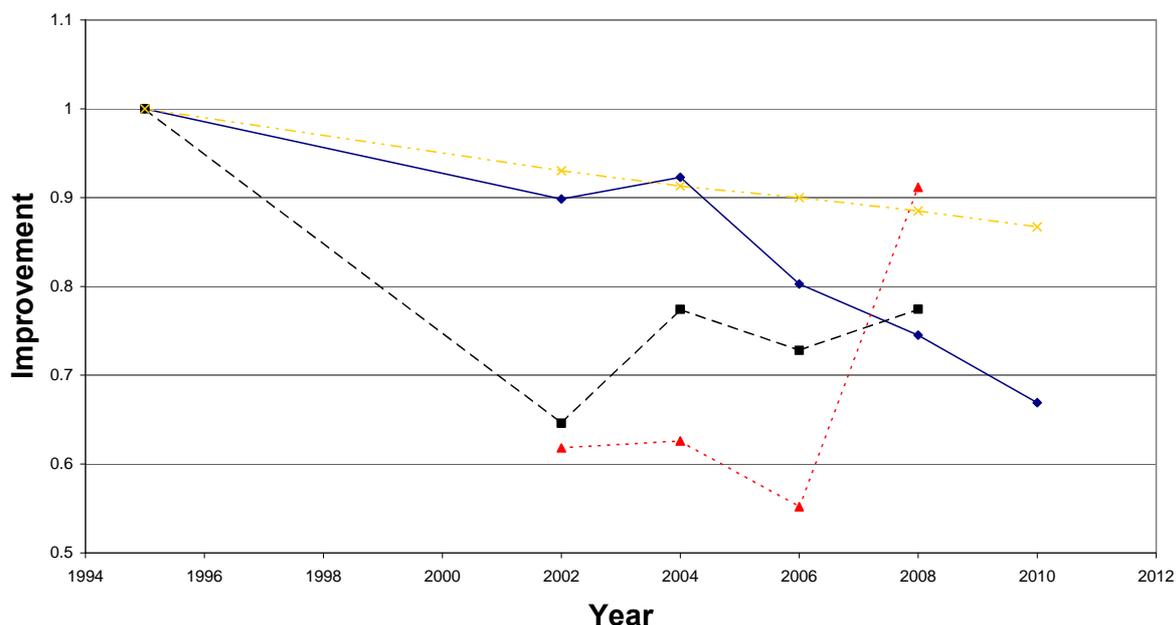
As a consequence of the adjustments described above, the final sector target for the TP4 was 0.959 kWh_p/kg.

Sector performance recorded						
The following table shows the sector performance against the equivalent ¹⁷ baseline for all target periods to date.						
	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (kg)	SEC (kWh _p /kg)	Energy (kWh)	Production (kg)	SEC (kWh _p /kg)
TP1	87,104,013	69,981,317	1.245	76,870,542	95,611,282	0.804
TP2	72,159,168	70,433,832	1.024	74,059,388	93,372,494	0.793
TP3	72,222,021	69,900,837	1.033	81,163,635	107,904,837	0.752
TP4	68,224,883	64,849,091	1.052	79,139,997	97,136,220	0.815
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 0.815 kWh _p /kg is below the CCA adjusted target of 0.959 kWh _p /kg and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	10%		35%			
TP2	8%		23%			
TP3	20%		27%			
TP4	25%		23%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

¹⁷ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BEPA TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.2	-8
TP2	-0.1	-4
TP3	-0.1	-5
TP4	-0.1	-4

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/ emissions.)

	Change in annual Absolute Energy and CO ₂ compared with Equivalent Baseline		
	Energy (PJ)	CO ₂ (kilotonnes)	Production (%)
TP1	-0.04	-1.8	37
TP2	0.01	0.3	33
TP3	0.03	1.6	54
TP4	0.04	2.0	50

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

EGG PRODUCTION (NATIONAL FARMERS UNION – NFU)

Scope and membership of the umbrella agreement

The NFU egg agreement covers sites undertaking the production of eggs from birds under cage, barn and free-range production systems. The agreement was developed with the close involvement of the British Egg Industry Council.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per dozen eggs (kWh_p/doz). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data (however, at TP1 only, the sector targets were not adjusted).

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p / doz)	TP1(2002) (kWh _p / doz)	TP2(2004) (kWh _p / doz)	TP3(2006) (kWh _p / doz)	TP4(2008) (kWh _p / doz)	TP5(2010) (kWh _p / doz)
Original	0.410	0.390	0.380	0.370	0.362	0.354
At TP1	0.410	0.390	0.380	0.370	0.362	0.354
2004 Review*	-	-	-	32.0%	34.2%	36.6%
At TP2	0.480	-	0.440	0.291	0.275	0.260
At TP3	0.449	-	-	0.273	0.258	0.243
2008 Review*	-	-	-	-	-	0%
At TP4	0.515	-	-	-	0.315	0.297

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 14 ktCO₂ were ring-fenced
- Allowances equivalent to 4 ktCO₂ were purchased

Overall, there was a net ring-fencing of 10 ktCO₂, equivalent to a sector target change (tightening) of -0.073 kWh_p/doz (Note – figures rounded for presentation).

Other adjustments

N/A.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 0.242 kWh_p/doz.

Sector performance recorded

The following table shows the sector performance against the equivalent¹⁸ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (doz)	SEC (kWh _p /doz)	Energy (kWh)	Production (doz)	SEC (kWh _p /doz)
TP1*	349,642,976	804,715,349	0.434	293,815,082	873,972,712	0.336
TP2	296,220,626	617,543,595	0.480	271,323,266	883,576,085	0.307
TP3	258,165,758	575,195,504	0.449	235,153,204	804,275,538	0.292
TP4	305,997,977	594,577,431	0.515	218,551,400	781,344,070	0.280

* This is the equivalent baseline for those target units that reported at TP1, although the sector target at TP1 was not adjusted for entrants and exits.

Adjustment for overlap with EU ETS

No target units reporting at TP4 are part of EU ETS, so no adjustments were required.

Commentary

The sector performance of 0.280 kWh_p/doz eggs is above the CCA adjusted target of 0.242 kWh_p/doz eggs and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

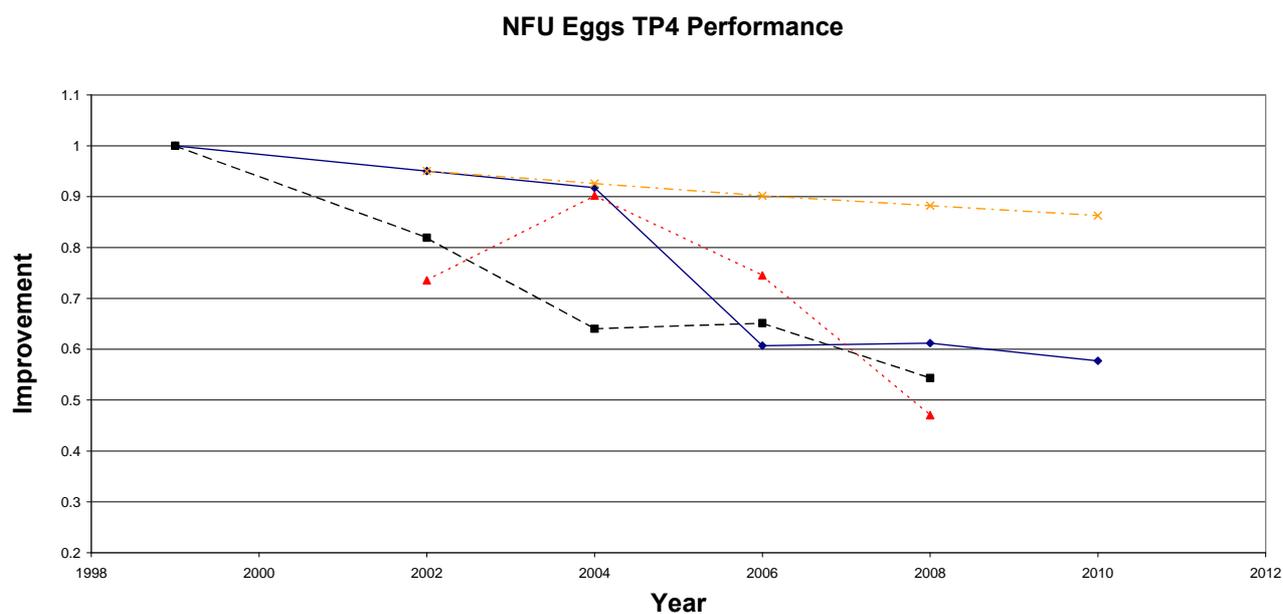
	Change in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1*	4.9%	18%
TP2	8.2%	36%
TP3	39%	35%
TP4	39%	46%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

* The TP1 figures here are relative to the unchanged target and its baseline, rather than the baseline equivalent to those that reported.

¹⁸ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The ‘target profile’ reflects the data as detailed in the **Targets** section above.

The ‘target after adjustments’ reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Annual Change in Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.3	-15
TP2	-0.5	-27
TP3	-0.5	-22
TP4	-0.7	-32

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Annual Change in Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.2	-10	8
TP2	-0.1	-4	43
TP3	-0.1	-4	40
TP4	-0.3	-15	31

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

FOOD & DRINK (FOOD & DRINK FEDERATION - FDF)

Scope and membership of the umbrella agreement

The FDF agreement covers a substantial proportion of the UK food and drink manufacturing industry, though some specific sectors of the industry are covered by other agreements.

This sector has Target Units that have installations in the EU ETS.

Targets

The targets for this sector are given in primary kWh per tonne of throughput (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1995 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	1,043.7	962.7	942.8	922.9	911.6	899.6
At TP1	1,046.5	959.3	935.0	915.0	903.3	890.9
2004 Review*	-	-	-	2%	2.5%	3%
At TP2	1,045.9	-	945.3	910.1	895.2	875.8
At TP3	1,044.6	-	-	908.4	903.5	883.8
2008 Review*	-	-	-	-	-	4.5%
At TP4	1018.7	-	-	-	882.2	828.5

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 715 ktCO₂ were ring-fenced
- Allowances equivalent to 440 ktCO₂ were purchased

Overall, there was a net ring-fencing of 275 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 842.3 kWh/t. This includes adjustment for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -39.9 kWh/t.

Sector performance recorded

The following table shows the sector performance against the equivalent¹⁹ baseline for all target periods to date.

	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (tonnes)	SEC (kWh/t)	Energy (kWh)	Production (tonnes)	SEC (kWh/t)
TP1	36,724,520,644	35,090,995	1,046.6	35,405,926,764	37,501,136	944.1
TP2	36,106,722,124	34,521,949	1,045.9	35,222,598,428	37,534,208	938.4
TP3	33,432,358,654	32,006,215	1,044.6	32,558,910,722	36,483,474	892.4
TP4	31,937,311,336	31,351,145	1,018.7	31,768,383,398	37,196,303	854.1

Adjustment for overlap with EU ETS

14 Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

Three Target Units had their targets tightened due to double counting and three had their targets eased. The remaining eight Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required.

Overall, there was an EU ETS deficit of 8 kt CO₂, which resulted in an adjustment (easing) to the CCA sector target of 1.2 kWh/t. This is included within the adjusted target described above.

Commentary

The sector performance of 854.1 kWh_p/t is above the CCA adjusted target of 842.3 kWh_p/t and, therefore, the sector has not met its target. The sector comprises 13 sub-sectors; eight did not meet their adjusted sub-sector targets and five did. Eight facilities were decertified. All other facilities reporting were recertified, either because they have met their individual targets outright, or through trading.

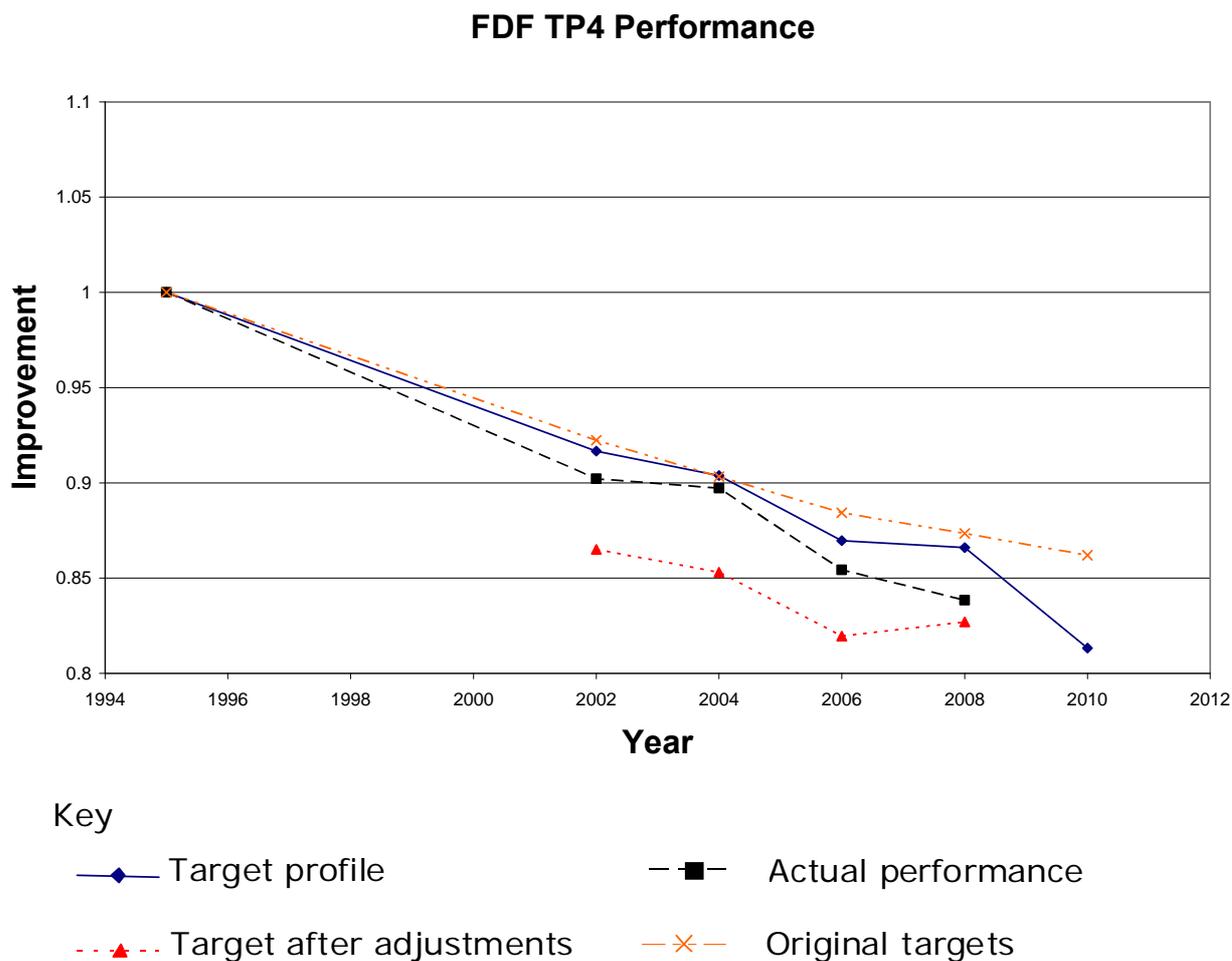
The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	8.3%	9.8%
TP2	9.6%	10%
TP3	13%	14%
TP4	13%	16%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

¹⁹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-14	-620
TP2	-15	-732
TP3	-20	-1,000
TP4	-22	-1,102

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-4.7	-160	7
TP2	-3.2	-161	9
TP3	-3.1	-157	14
TP4	-0.6	-30	19

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

FOUNDRIES (T2010)

Scope and membership of the umbrella agreement

Target 2010 is a company set up by the foundry industry to represent it for the purposes of the Climate Change Agreement (CCA). The sector covers ferrous and non-ferrous foundries in the UK.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	6,622	6,566	6,420	6,259	6,100	5,941
At TP1	6,622	6,507	6,371	6,229	6,078	5,901
2004 Review*	-	-	-	0%	0%	0%
At TP2	6,773	-	6,520	6,372	6,221	6,043
At TP3	6,764	-	-	6,385	6,239	6,068
2008 Review*	-	-	-	-	-	1.0%
At TP4	7442	-	-	-	6,881	6,621

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 86 ktCO₂ were ring-fenced
- Allowances equivalent to 52 ktCO₂ were purchased

Overall, there was a net ring-fencing of 34 ktCO₂, equivalent to a sector target change (tightening) of -312 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 6569 kWh_p/t.

Sector performance recorded

The following table shows the sector performance against the equivalent²⁰ baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	8,383,063,050	1,266,027	6,622	7,676,413,049	1,171,224	6,554
TP2	7,427,272,587	1,096,659	6,773	6,836,488,394	1,014,934	6,736
TP3	5,863,361,042	866,812	6,764	5,452,151,638	855,708	6,372
TP4	4,365,661,077	586,644	7,442	4,148,987,927	606,285	6,843

Adjustment for overlap with EU ETS

No target units reporting at TP4 are part of EU ETS, so no adjustments were required.

Commentary

The sector performance of 6,843 kWh_p/t is above the CCA adjusted target of 6569 kWh_p/t and, therefore, the sector did not meet its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base-year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	1.7%	1.0%
TP2	3.7%	0.5%
TP3	5.6%	5.8%
TP4	7.5%	8.0%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

²⁰ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base-year (2000) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-0.3	-16	
TP2	-0.1	-7	
TP3	-1.2	-62	
TP4	-1.3	-65	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base-year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-2.5	-139	-7
TP2	-2.1	-114	-7
TP3	-1.5	-76	-1
TP4	-0.8	-39	3
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

GEOTEXTILES (BRITISH NON-WOVEN MANUFACTURERS' ASSOCIATION - BNMA)

Scope and membership of the umbrella agreement

The BNMA represents three companies, Terram, Tensar International and ABG, which specialise in the manufacture of geotextiles that are used to stabilise structures such as embankments or roads. This Climate Change Agreement (CCA) is an Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.

	Baseline (kWh _p /t)	TP1(2002)	TP2(2004)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	3,535.09	N/A	N/A	3,464.39	3,287.63	3,181.58
At TP3	3,535.09	N/A	N/A	3,464.39	3,287.63	3,181.58
2008 Review*	-	-	-	-	-	0%
At TP4	3,471.42	-	-	-	3,228.41	3,124.27

* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 1 ktCO₂ were purchased

Overall there was a net purchase of 1 ktCO₂, equivalent to a sector target change (easing) of 136.09 kWh_p/t (Note - figures rounded for presentation).

Other adjustments

N/A

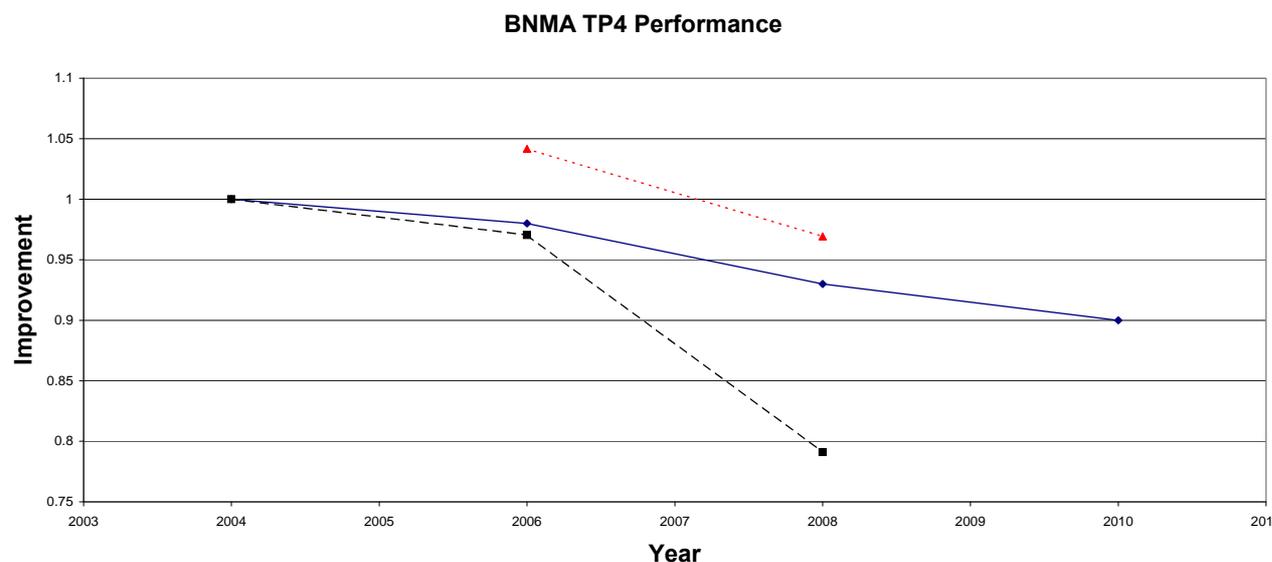
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 3,364.50 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ²¹ baseline for all target periods to date.						
	Equivalent baseline (2004)			Performance		
	Energy (kWh _p /t)	Production (tonnes)	SEC (kWh _p /t)	Energy (kWh _p /t)	Production (tonnes)	SEC (kWh _p /t)
TP3	131,812,924	37,287	3,535.09	131,092,217	38,212	3,430.66
TP4	138,117,197	39,787	3,471.42	105,493,094	38,414	2,746.19
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 2,746.19 kWh _p /t is below the CCA adjusted target of 3,364.50 kWh _p /t, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP3	2.0%		3.0%			
TP4	7.0%		21%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

²¹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- - -▲- - - Target after adjustments

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP3	-0.01	-0.7
TP4	-0.10	-5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	-0.003	-0.1	2
TP4	-0.12	-6	-3

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

GLASS (BRITISH GLASS MANUFACTURERS' CONFEDERATION - BGMC)

Scope and membership of the umbrella agreement

British Glass represents the glass manufacturing industry in the UK, including all processes manufacturing molten glass from raw materials ('batch').

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary MWh per tonne of glass packed/processed (MWh_p/t packed). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (MWh _p /t packed)	TP1(2002) (MWh _p /t packed)	TP2(2004) (MWh _p /t packed)	TP3(2006) (MWh _p /t packed)	TP4(2008) (MWh _p /t packed)	TP5(2010) (MWh _p /t packed)
Original	3.87	3.76	3.66	3.56	3.48	3.51
At TP1	3.82	3.67	3.57	3.49	3.41	3.41
2004 Review*	-	-	-	1.0%	2.0%	3.5%
At TP2	3.69	-	3.48	3.38	3.26	3.22
At TP3	3.47	-	-	3.18	3.03	2.97
2008 Review*	-	-	-	-	-	0.76%
At TP4	3.34	-	-	-	2.94	2.86

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 64 ktCO₂ were converted to allowances or ring-fenced
- Allowances equivalent to 133 ktCO₂ were purchased

Overall there was a net purchase of 69 ktCO₂ (Note - figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

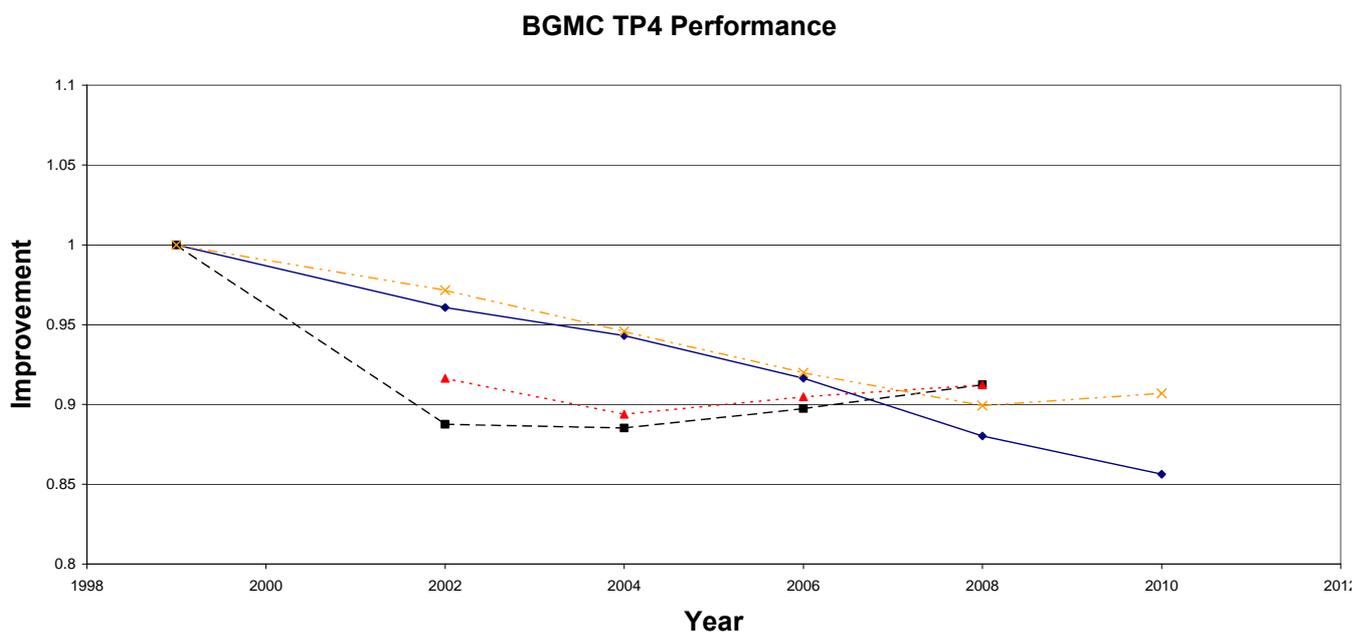
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 3.05 MWh_p/t packed. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 0.11 MWh_p/t packed.

Sector performance recorded						
The following table shows the sector performance against the equivalent ²² baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (MWh)	Production (t)	SEC (MWh/t)	Energy (MWh)	Production (t)	SEC (MWh/t)
TP1	10,791,920	2,825,520	3.82	10,584,079	3,122,034	3.39
TP2	10,201,009	2,762,995	3.69	10,460,867	3,200,623	3.27
TP3	10,289,692	2,964,901	3.47	10,321,979	3,314,355	3.11
TP4	9,702,314	2,901,879	3.34	10,362,337	3,397,075	3.05
Adjustment for overlap with EU ETS						
Three Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.						
One Target Unit had its target eased due to double counting. The other two Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall there was an EU ETS deficit of 9 ktCO ₂ which resulted in an adjustment (easing) to the CCA target of 0.01 MWh/t packed. This is included within the adjusted target described above.						
Commentary						
The sector performance of 3.05 MWh _p /t packed is equal to the CCA adjusted target of 3.05 MWh _p /t packed and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement			Actual Improvement		
TP1	3.9%			11%		
TP2	5.7%			11%		
TP3	8.4%			10%		
TP4	12%			8.8%		
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

²² Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-4.8	-250
TP2	-4.8	-250
TP3	-4.3	-226
TP4	-3.6	-186

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO ₂ compared with Equivalent Baseline		
	Energy (PJ)	CO ₂ (kilotonnes)	Production (%)
TP1	-0.8	-39	10
TP2	0.9	49	16
TP3	0.1	6	12
TP4	2.4	124	17

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

**GLASS MANIPULATOR
(BRITISH GLASS MANUFACTURERS' CONFEDERATION - BGMC)**

Scope and membership of the umbrella agreement

British Glass represents the glass manufacturing industry in the UK, including all processes manufacturing molten glass from raw materials ('batch').

This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 4 (TP4). A facility belongs to the Glass Manipulator sector if it is a facility where glass products or chemicals using glass as a base material are produced from raw materials, pre-formed glass or cullet for use as reflective additives in road markings or as toughened glass for the automotive market.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne of glass packed/processed (kWh_p/t packed). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2005 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t packed)	TP1(2002)	TP2(2004)	TP3(2006)	TP4(2008) (kWh_p/t packed)	TP5(2010) (kWh_p/t packed)
Original	4,911	N/A	N/A	N/A	4,665	4,419
At TP4	4,911	N/A	N/A	N/A	4,665	4,419

Additional adjustments to the TP4 sector target

Carbon trading

- No allowances were ring-fenced
- Allowances equivalent to 1 ktCO₂ were purchased

Overall there was a net purchase of 1 ktCO₂, equivalent to a sector target change (easing) of 214 kWh_p/t packed (Note - figures rounded for presentation).

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 4,879 kWh_p/t packed.

Sector performance recorded

The following table shows the sector performance against the equivalent²³ baseline for all target periods to date.

	Equivalent baseline (2005)			Performance		
	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)
TP4	132,347,369	26,951	4,911	135,142,274	28,819	4,689

Adjustment for overlap with EU ETS

No target units reporting at TP4 are part of EU ETS so no adjustments were required.

Commentary

The sector performance of 4,689 kWh_p/t packed is below the CCA adjusted target of 4,879 kWh_p/t packed, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

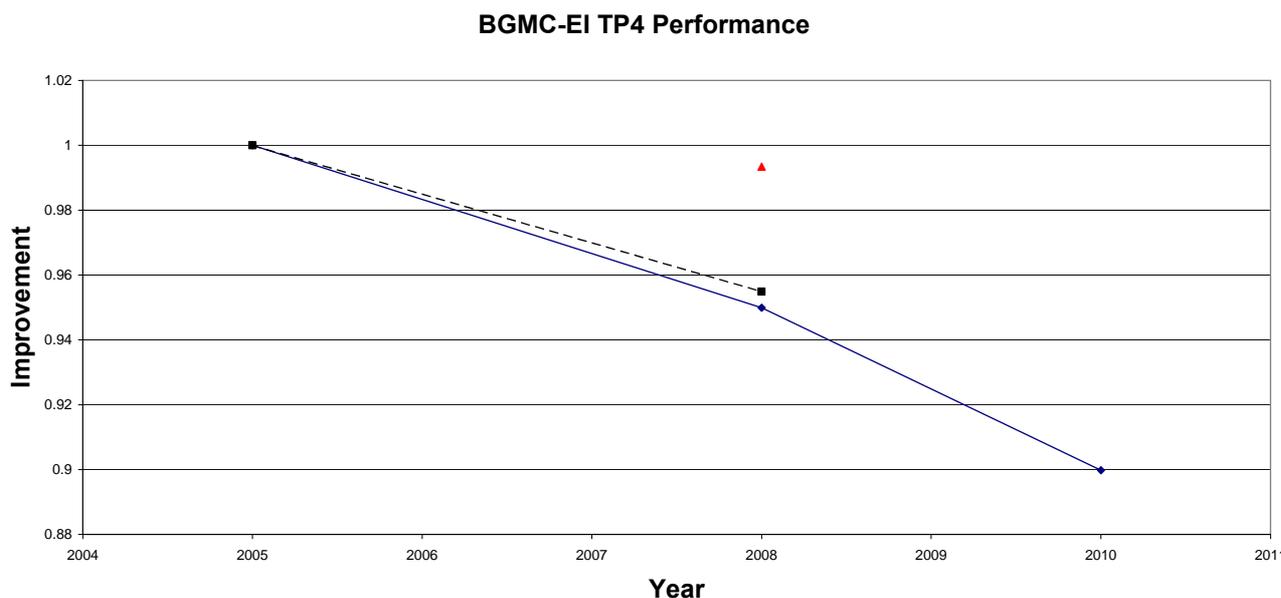
The following table shows how the sector has improved relative to the equivalent base year (2005) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP4	5.0%	4.5%

²³ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have changed compared with the equivalent base-year (2005) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP4	-0.02	-1

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2005) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP4	0.01	0.5	7
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.			

GYP SUM PRODUCTS (GYP SUM PRODUCTS DEVELOPMENT ASSOCIATION - GPDA)

Scope and membership of the umbrella agreement

The GPDA represents the three major manufacturers of gypsum products in the UK: British Gypsum, Lafarge Plasterboard Ltd and Knauf Drywall.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed as 'at an assumed level of throughput'. The sector association has agreed a procedure with DECC for this. Though the target appears to be an absolute one, it is in fact a relative target. Original and current target period targets for this sector are shown below in primary kWh (kWh_p) and as percentage improvements relative to the base year. Target period target values have changed because of baseline corrections and a new entrant in 2006. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p)	TP1(2002) (kWh_p)	TP2(2004) (kWh_p)	TP3(2006) (kWh_p)	TP4(2008) (kWh_p)	TP5(2010) (kWh_p)
Original	1,942,733,308	1,921,418,337	1,907,567,050	1,883,290,011	1,851,558,442	1,826,834,050
At TP1	1,998,569,890	1,976,700,401	1,962,244,655	1,937,132,444	1,904,519,248	1,878,921,483
2004 Review*	-	-	-	0%	0%	1%
At TP2	1,998,569,890	-	1,962,244,655	1,937,132,444	1,904,519,248	1,860,132,268
At TP3	2,339,833,736	-	-	2,263,287,620	2,283,802,752	2,256,292,086
2008 Review*	-	-	-	-	-	1%
At TP4	2,375,726,480	-	-	-	2,237,218,448	2,106,661,439

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 9 ktCO₂ were purchased

Overall there was a net purchase of 9 ktCO₂, equivalent to a sector target change (easing) of 48,328,746 kWh_p (Note - figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 413,192,749 kWh_p.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 2,698,739,943kWh_p.

Sector performance recorded

The following table shows the sector performance against the equivalent²⁴ baseline for all target periods to date.

	Equivalent baseline (2000)		Performance	
	Energy (kWh _p)	Production	Energy (kWh _p)	Production
TP1	1,998,569,890	Not applicable	2,110,100,697	Not applicable
TP2	1,998,569,890	Not applicable	2,266,915,806	Not applicable
TP3	2,339,833,736	Not applicable	2,266,915,806	Not applicable
TP4	2,375,726,480	Not applicable	2,616,693,779	Not applicable

Adjustment for overlap with EU ETS

No target units reporting at TP4 are part of EU ETS so no adjustments were required.

Commentary

The sector performance of 2,616,693,779 kWh_p is below the CCA adjusted target of 2,698,739,943kWh_p and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

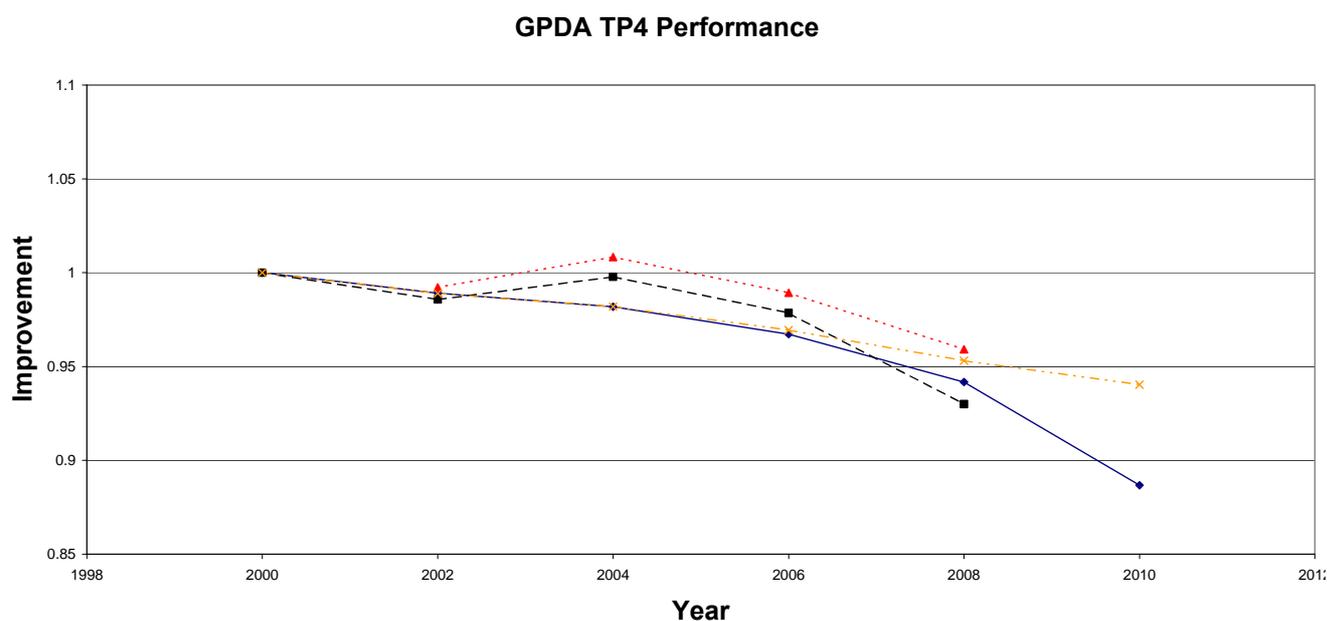
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	1.1%	1.4%
TP2	1.8%	0.2%
TP3	3.3%	4.1%
TP4	5.8%	7.0%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

²⁴ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- -▲- - Target after adjustments
- -×- - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.1	-6
TP2	-0.02	-1
TP3	-0.4	-21
TP4	-0.7	-36

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	0.4	21	Not relevant
TP2	1.0	50	Not relevant
TP3	1.1	57	Not relevant
TP4	0.9	45	Not relevant

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

HEAT TREATMENT (SURFACE ENGINEERING ASSOCIATION - SEAHT)

Scope and membership of the umbrella agreement

SEA represents the metal-finishing sector, carrying out processes including electroplating and anodising. SEA is a subsidiary of the British Jewellery and Giftware and Finishing Federation, which is the formal signatory to the agreement.

This Climate Change Agreement (SEAHT) is an Energy Intensity CCA covering companies that specialise in heat treatment of metallic components. This CCA reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh at a given level of throughput (kWh_p). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.

	Baseline (kWh _p)	TP1(2002)	TP2(2004)	TP3(2006) (kWh _p)	TP4(2008) (kWh _p)	TP5(2010) (kWh _p)
Original	627,139,631	N/A	N/A	620,868,235	614,596,839	576,968,461
At TP3*	656,629,723	N/A	N/A	650,063,426	643,497,129	604,099,346
2008 Review**	-	-	-	-	-	5.31%
At TP4	1,150,543,824	-	-	-	1,128,298,074	998,732,594

*Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) because there has been one exit from the agreement.

** The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 15 ktCO₂ were ring-fenced
- Allowances equivalent to 1 ktCO₂ were purchased

Overall, there was a net ring-fencing of 14 ktCO₂, equivalent to a sector target change (tightening) of -80,942,973 kWh_p (Note – figures rounded for presentation).

Other adjustments

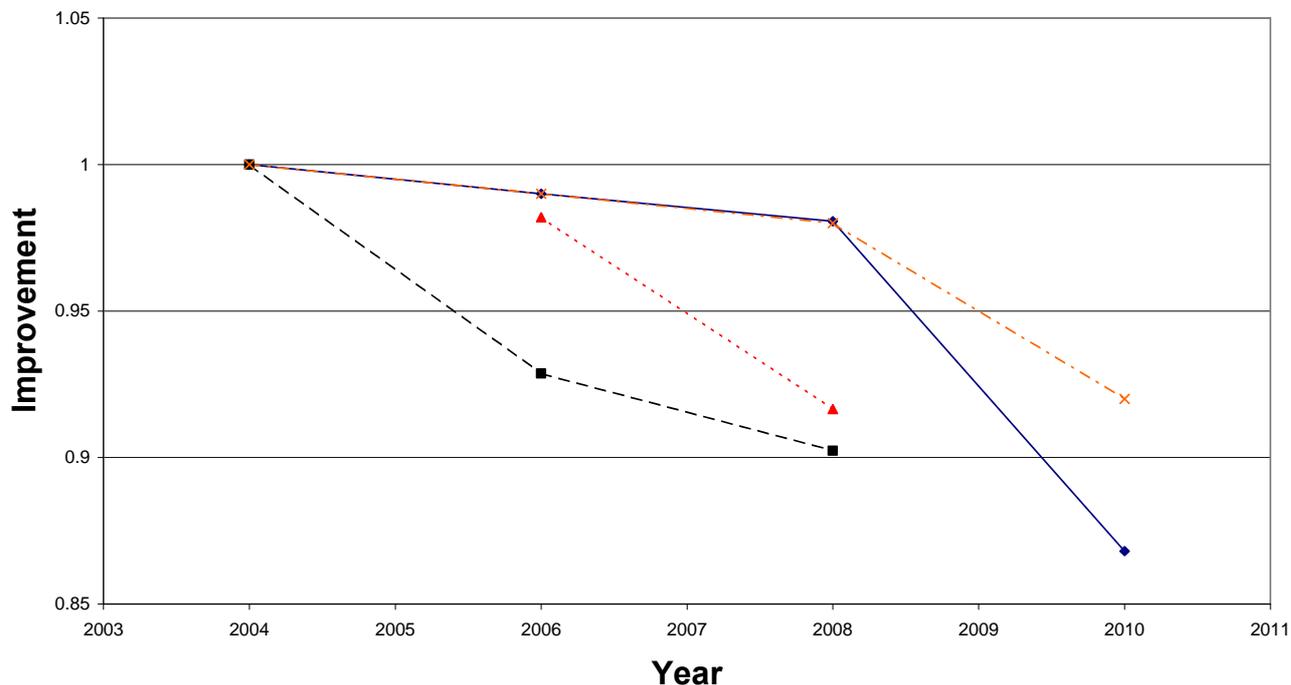
Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 109,922,081 kWh_p.

Final adjusted CCA sector target for the TP4						
As a consequence of the adjustments described above, the final sector target for the TP4 was 1,157,277,182 kWh _p .						
Sector performance recorded						
The following table shows the sector performance against the equivalent ²⁵ baseline for all target periods to date.						
	Equivalent baseline (2004)			Performance		
	Energy (kWh_p)	Production (mixed units)	SEC	Energy (kWh_p)	Production (mixed units)	SEC
TP3	656,629,723	N/A	N/A	630,617,772	N/A	N/A
TP4	1,150,543,824	N/A	N/A	1,139,343,232	N/A	N/A
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 1,139,343,232 kWh _p is below the CCA adjusted target of 1,157,277,182 kWh _p and therefore the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement		Actual Improvement			
TP3	1.0%		7.1%			
TP4	1.9%		9.8%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

²⁵ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

SEAHT TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP3	-0.2	-9
TP4	-0.4	-22

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	-0.1	-5	3
TP4	-0.04	-2	10

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

HORTICULTURE EI (NATIONAL FARMERS UNION – NFU)

Scope and membership of the umbrella agreement

The NFU horticulture energy intensive (EI) agreement covers sites where (in controlled, environment-protected structures) horticultural crops are grown, harvested and receive primary preparation for market including planting/seeding, heating, lighting, ventilating, irrigating, fertilising, cooling, preparing and sterilising of growing media, grading and conveying.

This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA that reported for the first time at Target Period 3 (TP3).

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh/m². The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh/m ²)	TP1(2002) (kWh/m ²)	TP2(2004) (kWh/m ²)	TP3(2006) (kWh/m ²)	TP4(2008) (kWh/m ²)	TP5(2010) (kWh/m ²)
Original	491.5	N/A	N/A	471.9	452.2	432.6
At TP3*	499.8	N/A	N/A	479.8	459.8	439.8
2008 Review**	-	-	-	-	-	9.0%
At TP4	511.9	-	-	-	468.8	409.9

*Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) due to baseline corrections.

** The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 80 ktCO₂ were ring-fenced
- Allowances equivalent to 5 ktCO₂ were purchased

Overall, there was a net ring-fencing of 75 ktCO₂, equivalent to a sector target change (tightening) of -89.7 kWh/m² (Note – figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 379.1 kWh/m².

Sector performance recorded

The following table shows the sector performance against the equivalent²⁶ baseline for all target periods to date.

	Equivalent baseline (2004)			Performance		
	Energy (kWh)	Production (m ²)	SEC (kWh/m ²)	Energy (kWh)	Production (m ²)	SEC (kWh/m ²)
TP3	1,769,843,334	3,541,118	499.8	1,498,338,041	3,670,282	408.2
TP4	2,128,587,794	4,158,526	511.9	1,614,316,429	4,268,324	378.2

Adjustment for overlap with EU ETS

Two Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

Both Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required.

Commentary

The sector performance of 378.2 kWh/m² is below the CCA adjusted target of 379.1 kWh/m² and, therefore, the sector has met its CCA target. All the facilities have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period.

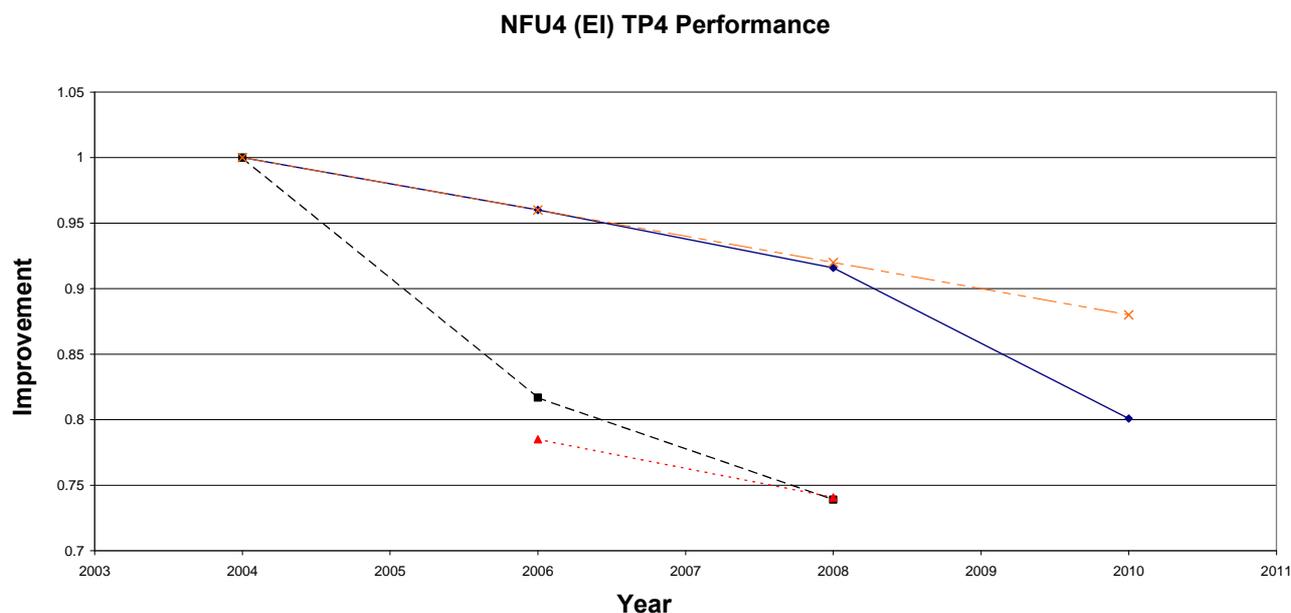
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP3	4.0%	18%
TP4	12%	26%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

²⁶ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been the same as that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP3	-1.2	-67
TP4	-2.1	-112

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	-1.0	-54	4%
TP4	-1.9	-101	3%

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

INDUSTRIAL GASES (BRITISH COMPRESSED GAS ASSOCIATION - BCGA)

Scope and membership of the umbrella agreement

BCGA represents the companies in the UK that produce and supply compressed gases to industry and the health sector. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline kWh _p /t	TP1(2002)	TP2(2004)	TP3(2006) kWh _p /t	TP4(2008) kWh _p /t	TP5(2010) kWh _p /t
Original	1,182.77	-	-	1,135.46	1,088.15	1,005.36
At TP3*	1,203.78	-	-	1,155.63	1,107.48	1,023.21
2008 Review**	-	-	-	-	-	0%
At TP4	1,203.78	-	-	-	1,084.01	1,023.21

* Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) due to a baseline correction.

** The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 40 ktCO₂ were purchased

Overall there was a net purchase of 40 ktCO₂, equivalent to a sector target change (easing) of 94.99 kWh_p/t (Note - figures rounded for presentation).

Other adjustments

N/A

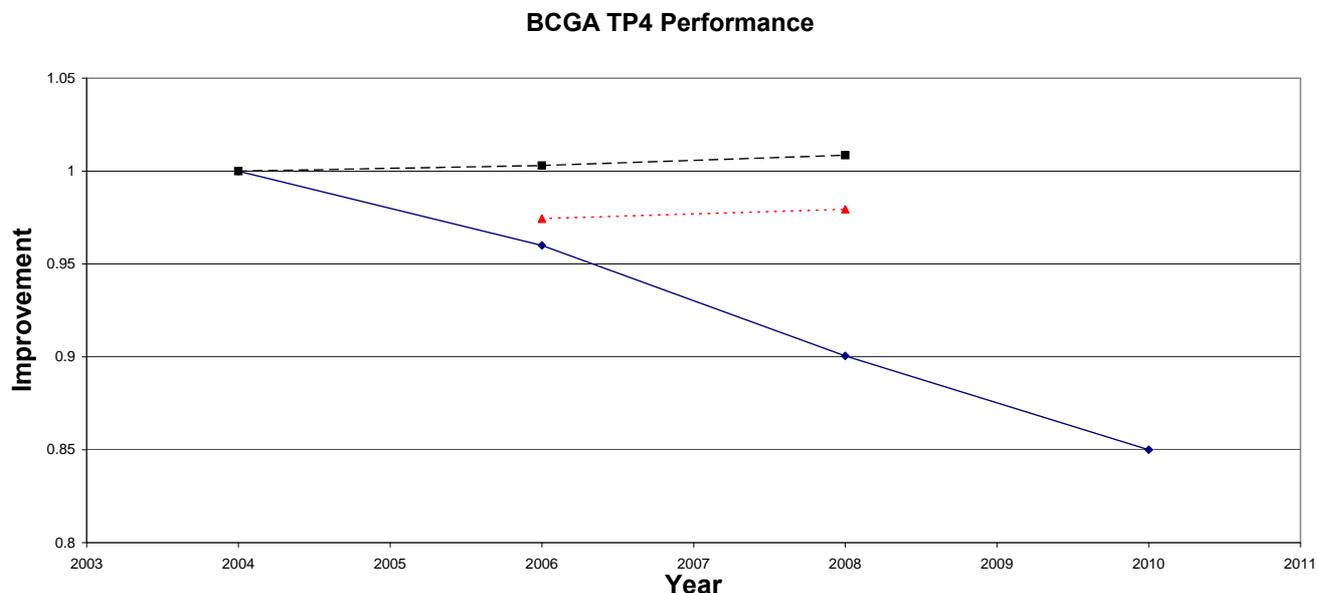
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 1,179.00 kWh_p/kWh.

Sector performance recorded						
The following table shows the sector performance against the equivalent ²⁷ baseline for all target periods to date.						
	Equivalent baseline (2004)			Performance		
	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)
TP3	3,193,307,582	2,652,729	1,203.78	3,133,030,121	2,594,818	1,207.42
TP4	3,193,307,582	2,652,729	1,203.78	3,062,406,916	2,522,441	1,214.06
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 1,214.06 kWh _p /t is above the CCA adjusted target of 1,179.00 kWh _p /t, and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets through trading.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP3	4.0%		-0.3%			
TP4	9.9%		-0.9%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

²⁷ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have changed compared with the equivalent base-year (2004) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP3	0.03	2
TP4	0.09	4

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	-0.2	-10	-2
TP4	-0.5	-22	-5

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance in future target periods.

KAOLIN AND BALL CLAY (KAOLIN AND BALL CLAY ASSOCIATION - KaBCA)

Scope and membership of the umbrella agreement

KABCA represents the UK producers of kaolin and ball clay. The sector extracts, purifies and supplies kaolin for a number of industrial sectors. This Climate Change Agreement (CCA) represents facilities covered by an Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh (kWh_p). The sector agreement is an absolute energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 2004 baseline for this sector as agreed when the sector was initiated.

	Baseline (kWh _p)	TP1(2002)	TP2(2004)	TP3(2006) (kWh _p)	TP4(2008) (kWh _p)	TP5(2010) (kWh _p)
Original	1,728,116,780	N/A	N/A	1,666,016,799	1,631,110,930	1,597,272,280
At TP3	1,728,116,780	N/A	N/A	1,618,553,349*	1,631,110,930	1,597,272,280
2008 Review**	-	-	-	-	-	37%
At TP4	1,728,116,780	-	-	-	1,280,669,579	1,189,808,606

*Note - The targets and baseline at TP3 differ from the original values (ie. agreed when the umbrella agreement was established) due to a throughput baseline correction.

** The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 21 ktCO₂ were ring-fenced
- Allowances equivalent to 3 ktCO₂ were purchased

Overall, there was a net ring-fencing of 19 ktCO₂, equivalent to a sector target change (tightening) of -104,513,982 kWh (Note – figures rounded for presentation).

Other adjustments

No other adjustments were made.

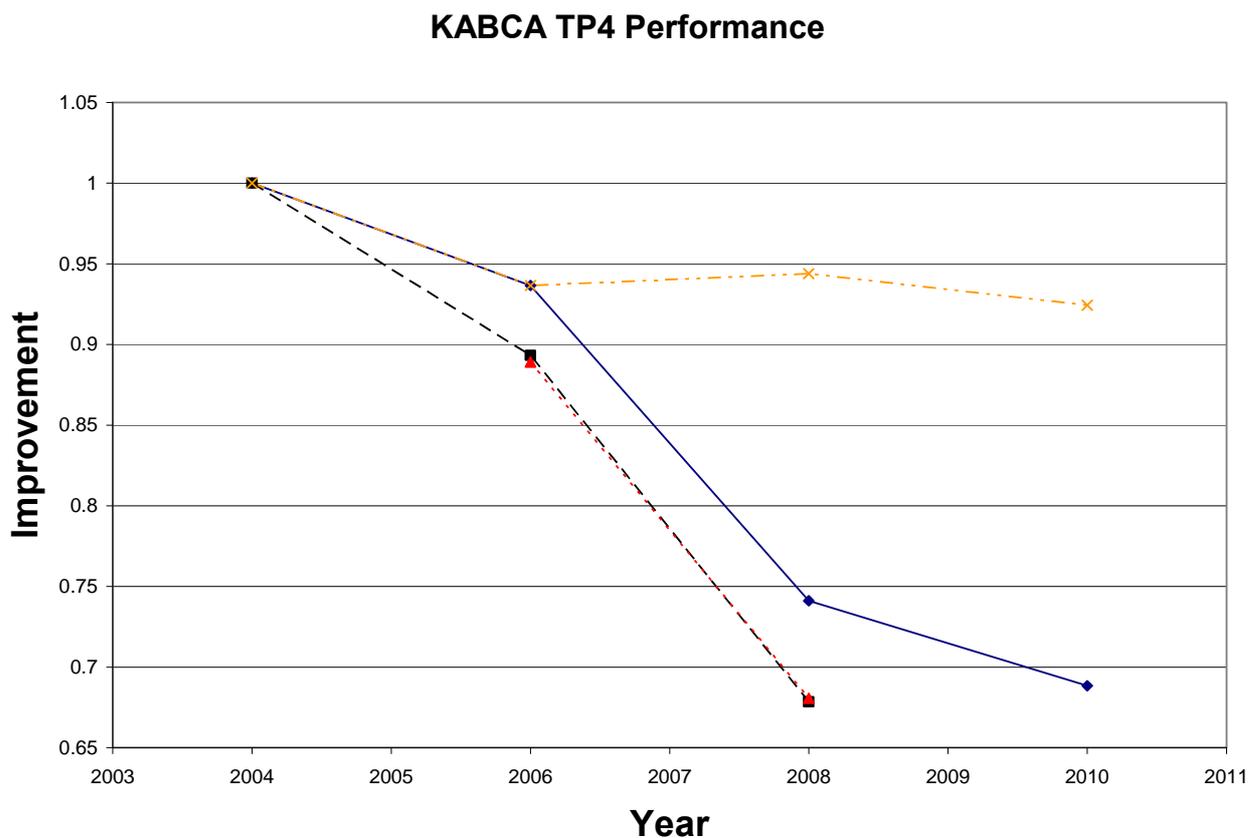
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 period was 1,176,155,597 kWh_p.

Sector performance recorded						
The following table shows the sector performance against the equivalent ²⁸ baseline for all target periods to date.						
	Equivalent baseline (2004)			Performance		
	Energy (kWh_p)	Production (tonnes)	SEC (kWh_p/tonne)	Energy (kWh_p)	Production (tonnes)	SEC (kWh_p/tonne)
TP3	1,728,116,780	N/A	N/A	1,543,745,201	N/A	N/A
TP4	1,728,116,780	N/A	N/A	1,172,413,718	N/A	N/A
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 1,172,413,718 kWh _p is below the CCA adjusted target of 1,176,155,597 kWh _p and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP3	6.3%		11%			
TP4	26%		32%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

²⁸ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The ‘target profile’ reflects the data as detailed in the **Targets** section above.

The ‘target after adjustments’ reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO₂ emissions for the sector have changed compared with the equivalent base year position.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	-0.7	-33	2
TP4	-2.0	-99	-7

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

LEATHER (UK LEATHER FEDERATION - UKLF)

Scope and membership of the umbrella agreement

BLC represents the leather industry in the UK, carrying out various activities from tanning of hides to production of finished leather.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh per m² (kWh_p/m²). The target sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/m²)	TP1(2002) (kWh_p/m²)	TP2(2004) (kWh_p/m²)	TP3(2006) (kWh_p/m²)	TP4(2008) (kWh_p/m²)	TP5(2010) (kWh_p/m²)
Original	11.62	11.39	11.16	10.93	10.70	10.48
At TP1	11.28	11.06	10.84	10.61	10.39	10.17
2004 Review*	-	-	-	0%	0%	10%
At TP2	11.09	-	10.63	10.41	10.18	8.96
At TP3	10.49	-	-	9.82	9.60	8.44
2008 Review*	-	-	-	-	-	4.0%
At TP4	9.46	-	-	-	8.70	7.35

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

No carbon was traded.

Other adjustments

N/A.

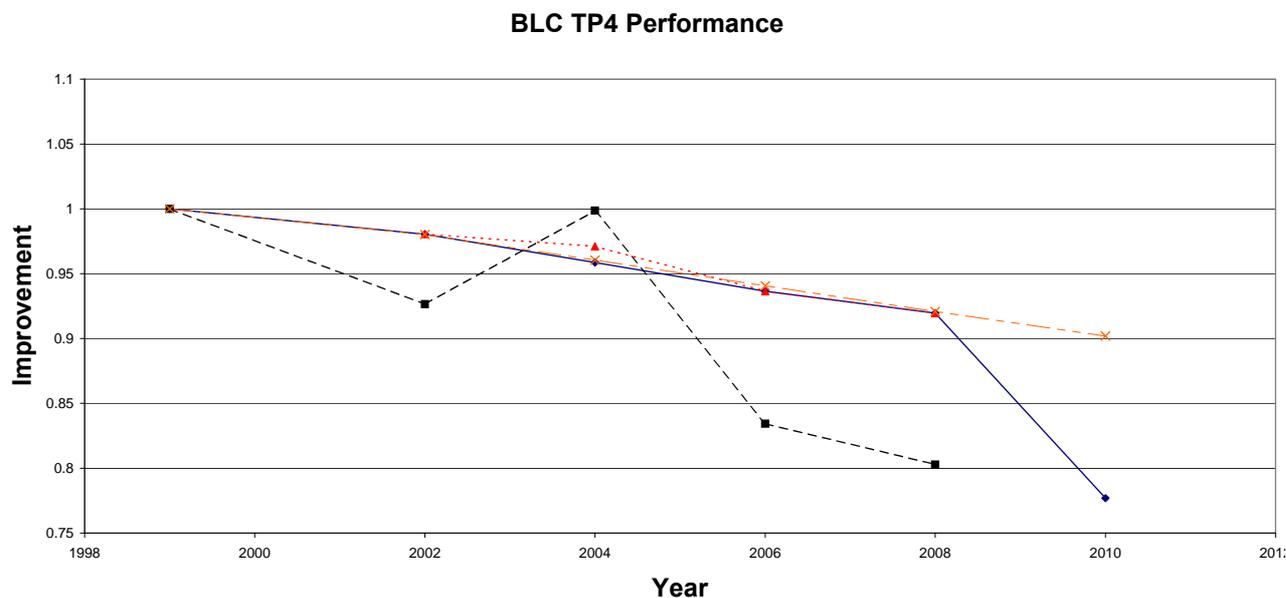
Final adjusted CCA sector target for the TP4

As there were no adjustments, the final sector target for the TP4 remained 8.70 kWh_p/m².

Sector performance recorded						
The following table shows the sector performance against the equivalent ²⁹ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (m ²)	SEC (kWh _p /m ²)	Energy (kWh)	Production (m ²)	SEC (kWh _p /m ²)
TP1	218,266,128	19,349,834	11.28	187,029,418	17,897,552	10.45
TP2	217,735,493	19,627,339	11.09	186,850,211	16,868,029	11.08
TP3	159,009,858	15,164,954	10.49	115,401,056	13,190,506	8.75
TP4	143,181,101	15,133,233	9.46	97,550,127	12,841,884	7.60
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS and Climate Change Agreements and so no adjustment is required.						
Commentary						
The sector performance of 7.60 kWh _p /m ² is below the CCA target of 8.70 kWh _p /m ² , and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement			Actual Improvement		
TP1	2.0%			7.4%		
TP2	4.1%			0.2%		
TP3	6.4%			17%		
TP4	8.0%			20%		
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

²⁹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.05	-3.0
TP2	-0.00	-0.1
TP3	-0.08	-4.2
TP4	-0.09	-4.4

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.1	-6	-8
TP2	-0.1	-6	-14
TP3	-0.2	-8	-13
TP4	-0.2	-8	-15
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

LIME (BRITISH LIME ASSOCIATION - BLA)

Scope and membership of the umbrella agreement

The agreement embraces the vast majority of UK merchant lime production and some captive production. Lime production associated with certain other processes (mainly 'captive' lime production) is not included within this agreement.

This sector has Target Units with installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	1,018	956	952	949	940	938
At TP1	1,042	976	970	964	952	949
2004 Review*	-	-	-	0%	-0.48%	1.0%
At TP2	1,054	-	987	982	975	957
At TP3	1,029	-	-	963	955	939
2008 Review*	-	-	-	-	-	2%
At TP4	1,029	-	-	-	955	920

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 61 ktCO₂ were ring-fenced
- Allowances equivalent to 20 ktCO₂ were purchased

Overall, there was a net ring-fencing of 40 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 894 kWh_p/t. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of –62 kWh_p/t.

Sector performance recorded

The following table shows the sector performance against the equivalent³⁰ baseline for all target periods to date.

	Equivalent baseline (1998)			Performance		
	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)
TP1	3,223,208,000	3,093,645	1,042	2,566,775,022	2,649,535	969
TP2	3,261,848,000	3,093,986	1,054	2,774,600,000	2,966,092	935
TP3	3,408,219,788	3,313,623	1,029	2,966,810,861	3,294,315	901
TP4	3,408,219,788	3,313,623	1,029	2,889,567,487	3,073,022	940

Adjustment for overlap with EU ETS

Four Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These facilities were required to adjust their targets for double counting between these two schemes.

One Target Unit had its targets tightened due to double counting. Three Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their targets was not required. Overall, there was an EU ETS excess of 4 ktCO₂ which resulted in an adjustment (tightening) to the CCA target of -6 kWh_p/t.

Commentary

The sector performance of 940 kWh_p/t is above the CCA adjusted target of 894 kWh_p/t and, therefore, the sector did not meet its CCA target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period.
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

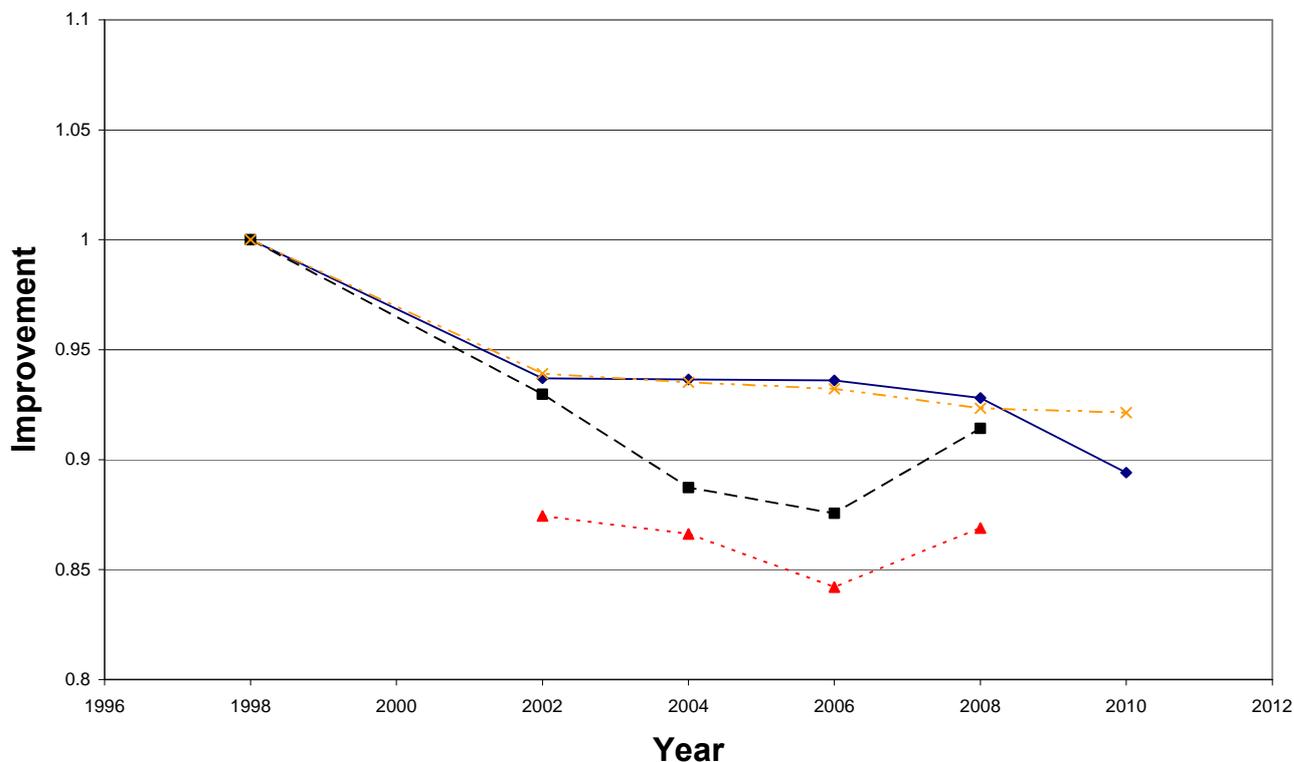
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	6.3%	7.0%
TP2	6.4%	11%
TP3	6.4%	12%
TP4	7.2%	8.6%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

³⁰ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BLA TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-0.7	-51
TP2	-1.3	-91
TP3	-1.5	-99
TP4	-1.0	-64

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂
The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-2.4	-174	-14
TP2	-1.8	-125	-4
TP3	-1.6	-104	-1
TP4	-1.9	-121	-7

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

MALTSTERS (MALTSTERS ASSOCIATION OF GREAT BRITAIN - MAGB)

Scope and membership of the umbrella agreement

The MAGB agreement covers the vast majority of the UK Malting industry.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne of malt produced (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	1,304.84	1,283.30	1,263.25	1,243.20	1,223.15	1,203.10
At TP1	1,312.39	1,290.74	1,270.58	1,250.42	1,230.26	1,210.11
2004 Review*	-	-	-	0.2%	0.6%	1.1%
At TP2	1,313.32	-	1,271.44	1,248.65	1,223.24	1,197.84
At TP3	1,313.60	-	-	1248.43	1222.83	1,197.23
2008 Review*	-	-	-	-	-	4.24%
At TP4	1,299.97	-	-	-	1,220.90	1,146.45

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 20 ktCO₂ were ring-fenced
- Allowances equivalent to 9 ktCO₂ were purchased

Overall, there was a net ring-fencing of 11 ktCO₂, equivalent to a sector target change (tightening) of -38.37 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 1,182.53 kWh_p/t.

Sector performance recorded

The following table shows the sector performance against the equivalent³¹ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	1,965,367,485	1,497,544	1,312.39	1,926,046,075	1,557,911	1,236.30
TP2	1,954,393,095	1,488,127	1,313.32	1,956,790,709	1,635,882	1,196.17
TP3	1,819,417,258	1,385,066	1,313.60	1,706,779,189	1,468,716	1,162.09
TP4	1,756,802,256	1,351,414	1,299.97	1,766,153,778	1,485,035	1,189.30

Adjustment for overlap with EU ETS

Three Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

All three Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required.

Commentary

The sector performance of 1,189.30 kWh_p/t is above the CCA adjusted target of 1,182.53 kWh_p/t and, therefore, the sector has not met its target. However, all facilities reporting have been recertified either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

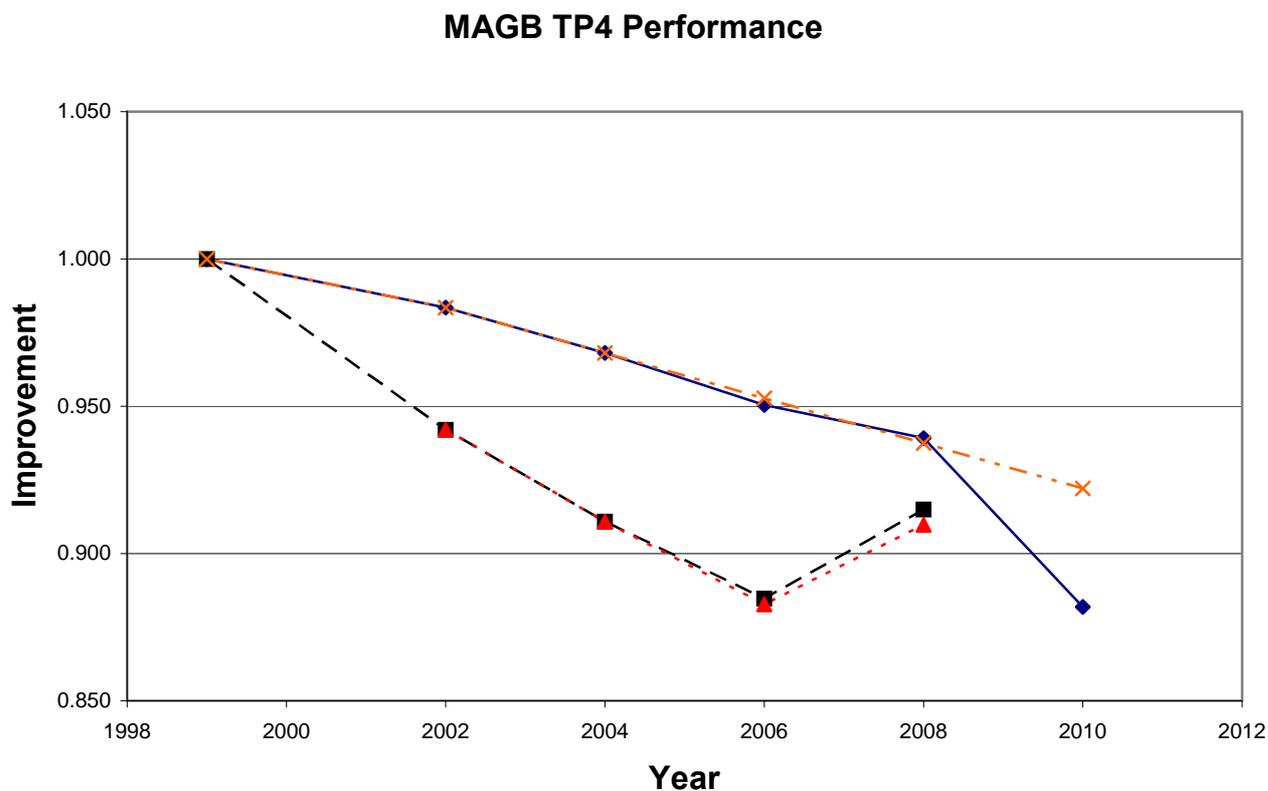
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance.)

Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	1.7%	5.8%
TP2	3.2%	8.9%
TP3	5.0%	11.5%
TP4	6.1%	8.5%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

³¹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-0.4	-22
TP2	-0.7	-36
TP3	-0.8	-42
TP4	-0.6	-31

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂
The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.1	-7	4
TP2	0.01	0.5	10
TP3	-0.4	-21	6
TP4	0.03	1.8	10

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

METAL FORMING (CONFEDERATION OF BRITISH METALFORMING - CBM)

Scope and membership of the umbrella agreement

CBM represents the forging and metal forming industry in the UK. Members of the industry produce a wide range of products, chiefly for the automotive and aerospace industries.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	12,537	12,361	12,186	12,010	11,835	11,659
At TP1	2,757	2,719	2,680	2,642	2,603	2,564
2004 Review*	-	-	-	16%	17.3%	20%
At TP2	2,691		2,616	2,166	2,101	2,002
At TP3	2,645			2,129	2,066	1,968
2008 Review*	-	-	-	-	-	0.0%
At TP4	2,476	-	-	-	1,945	1,840

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 177 ktCO₂ were ring-fenced
- Allowances equivalent to 50 ktCO₂ were purchased

Overall, there was a net ring-fencing of 127 ktCO₂, equivalent to a sector target change (tightening) of -573 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

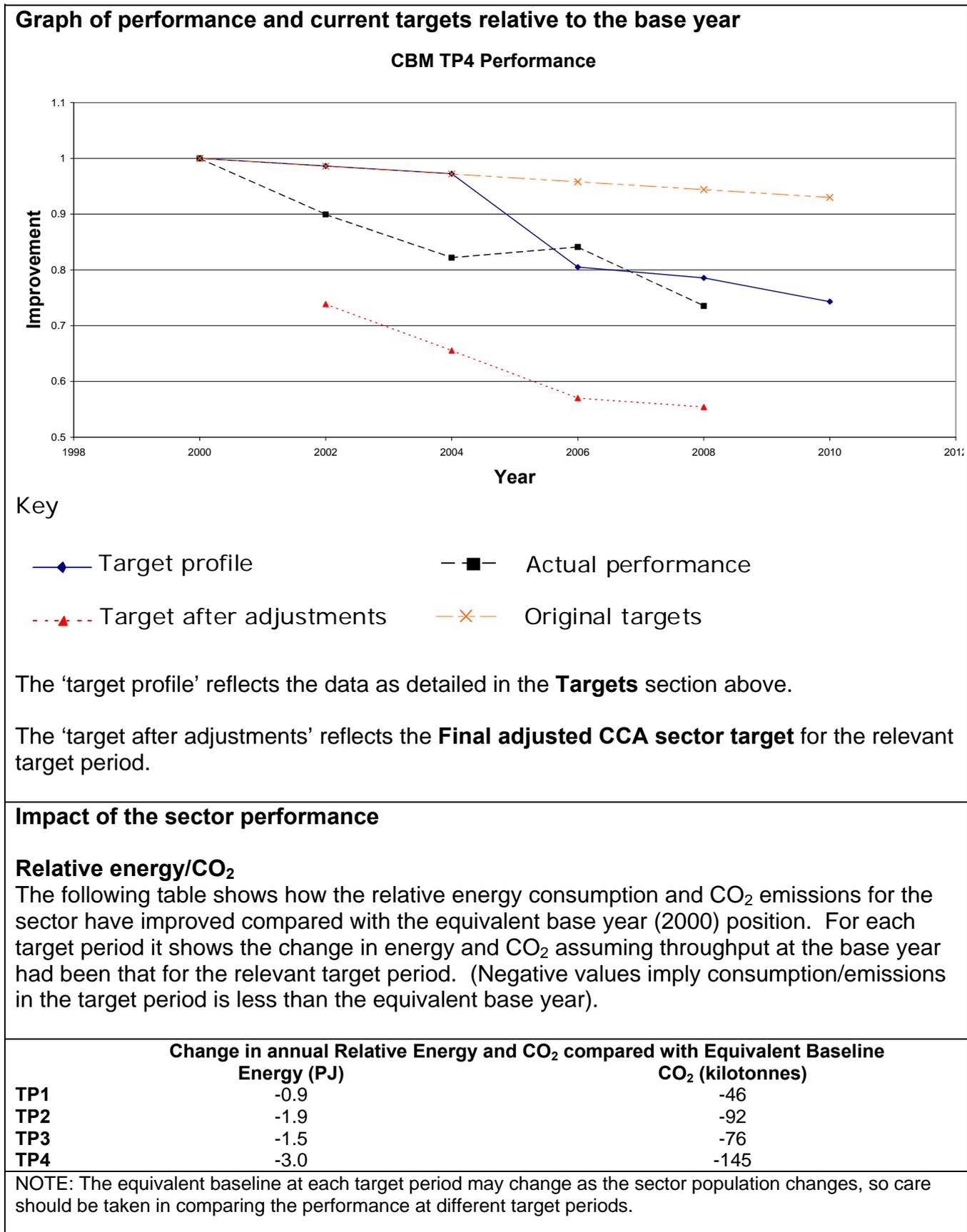
N/A

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 1,372 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ³² baseline for all target periods to date.						
	Equivalent baseline (2000)			Performance		
	Energy (kWh _p)	Production (tonnes)	SEC (kWh _p /t)	Energy (kWh _p)	Production (tonnes)	SEC (kWh _p /t)
TP1	2,486,933,514	901,903	2,757	2,351,370,405	947,977	2,480
TP2	2,543,308,537	945,225	2,691	2,396,000,688	1,083,432	2,211
TP3	2,463,073,486	931,212	2,645	2,255,614,392	1,013,793	2,225
TP4	2,627,385,080	1,061,138	2,476	2,280,367,291	1,252,522	1,821
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 1,821 kWh _p /t is above the CCA adjusted target of 1,372 kWh _p /t and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.						
The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	1.4%		10%			
TP2	2.8%		18%			
TP3	20%		16%			
TP4	21%		26%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

³² Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.



Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.5	-23	5
TP2	-0.5	-26	15
TP3	-0.7	-37	9
TP4	-1.2	-61	18

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

METAL PACKAGING (METAL PACKAGING MANUFACTURERS ASSOCIATION - MPMA)

Scope and membership of the umbrella agreement

MPMA represents the manufacturers of various metal packing products in the UK, including beverage and food cans and closures (eg bottle tops).

This sector has no Target Units that have installations in EU ETS.

Targets

The sector target is expressed in terms of kilograms of carbon (kgC), at a particular level of production. This target assumes no growth in production and static product mix. The sector agreement is a relative carbon agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kgC)	TP1(2002) (kgC)	TP2(2004) (kgC)	TP3(2006) (kgC)	TP4(2008) (kgC)	TP5(2010) (kgC)
Original	82,838,675	79,525,128	78,282,548	77,039,968	76,211,581	75,383,194
At TP1	80,303,988	77,091,828	75,887,268	74,682,709	73,879,669	73,076,629
2004 Review*	-	-	-	1%	1%	2%
At TP2	78,780,759	-	74,575,260	72,533,445	71,753,515	70,256,681
At TP3	78,180,018	-	-	71,980,343	71,206,361	69,720,940
2008 Review*	-	-	-	-	-	4.5%
At TP4	78,430,366	-	-	-	71,434,377	66,796,711

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 38 ktCO₂ were ring-fenced
- Allowances equivalent to 5 ktCO₂ were purchased

Overall, there was a net ring-fencing of 33 ktCO₂, equivalent to a sector target change (tightening) of -9,075,727 kgC (Note – figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 7,324,962 kgC.

Final adjusted CCA sector target for the TP4

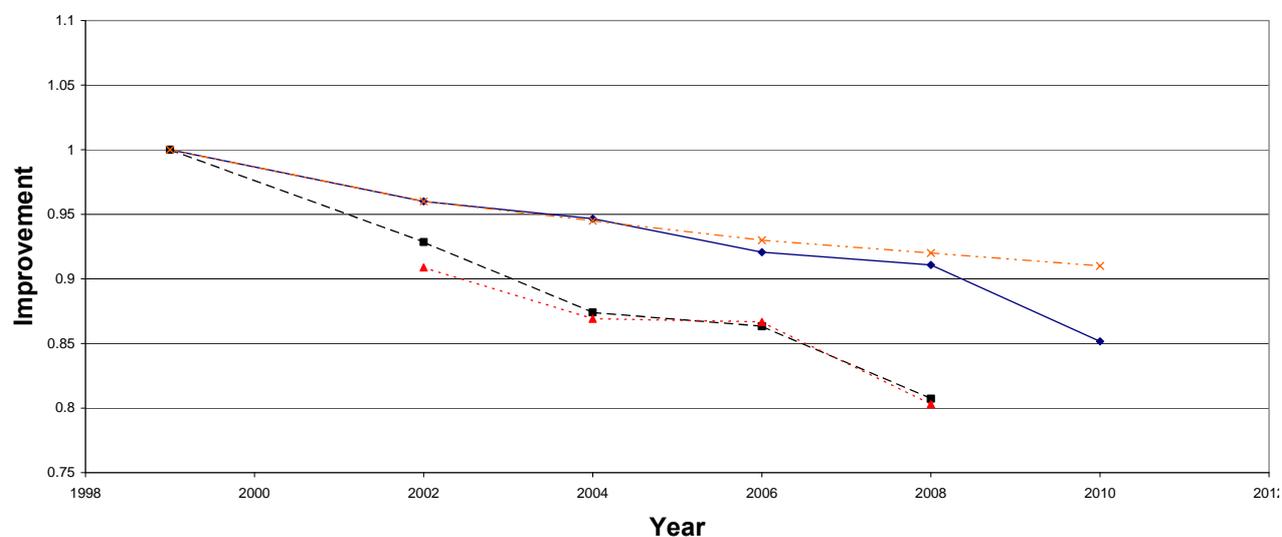
As a consequence of the adjustments described above, the final sector target for the TP4 was 69,683,612 kgC.

Sector performance recorded						
The following table shows the sector performance against the equivalent ³³ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Carbon (kg)	Production (kg)	SCC (kgC/kg)	Carbon (kg)	Production (kg)	SCC (kgC/kg)
TP1	80,303,988	28,943,205,391	0.00277	75,296,282	29,837,802,567	0.00252
TP2	78,780,759	25,225,035,496	0.00312	73,102,420	27,154,323,918	0.00269
TP3	78,180,018	25,233,963,496	0.00310	71,516,687	27,671,401,730	0.00258
TP4	78,430,366	25,151,391,903	0.00312	70,061,393	30,217,997,662	0.00232
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 70,061,393 kgC is above below the CCA adjusted target of 69,683,612 kgC and, therefore, the sector has not met its target. One facility failed to meet its target and was decertified but all other facilities were recertified, either because they have met their individual targets outright, or through trading.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SCC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	4.0%		6%			
TP2	5.3%		13%			
TP3	7.9%		14%			
TP4	8.9%		19%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

³³ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

MPMA TP4 Performance



Key

- ◆— Target profile
- Actual performance
- -▲- - Target after adjustments
- -×- - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.6	-28
TP2	-0.8	-39
TP3	-0.9	-41
TP4	-1.3	-61

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.4	-18	3
TP2	-0.4	-21	8
TP3	-0.5	-24	10
TP4	-0.6	-31	20

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

MINERAL WOOL PRODUCERS (MINESCO - EURISOL)

Scope and membership of the umbrella agreement

The Mineral Wool Energy Savings Company (MINESCO) represents the mineral wool insulation manufacturers' trade association, Eurisol, for the CCA. The member companies produce glass wool and rock wool insulation material for building fabric, pipe insulation, specialist applications and high-temperature industrial protection.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	5,344	4,874	4,691	4,610	4,512	4,485
At TP1	5,341	4,954	4,767	4,682	4,582	4,551
2004 Review*	-	-	-	0%	0%	1%
At TP2	5,347	-	4,773	4,688	4,587	4,511
At TP3	5,347	-	-	4,688	4,587	4,511
2008 Review*	-	-	-	-	-	4.48%
At TP4	5,347	-	-	-	4,587	4,309

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 40 ktCO₂ were ring-fenced
- No allowances were purchased

Overall, there was a net ring-fencing of 40 ktCO₂, equivalent to a sector target change (tightening) of -535 kWh/t (Note – figures rounded for presentation).

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 4,052 kWh_p/t.

Sector performance recorded

The following table shows the sector performance against the equivalent³⁴ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	1,209,693,772	226,492	5,341	1,167,690,221	240,205	4,861
TP2	1,215,243,163	227,263	5,347	1,257,977,062	290,055	4,337
TP3	1,215,243,163	227,263	5,347	1,432,213,254	350,789	4,083
TP4	1,215,243,163	227,263	5,347	1,418,685,947	358,020	3,963

Adjustment for overlap with EUETS

Two Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

Both Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required.

Commentary

The sector performance of 3,963 kWh_p/t is below the CCA adjusted target of 4,052 kWh_p/t and, therefore, the sector has met its target. All facilities have been recertified as a consequence of the sector meeting its target.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

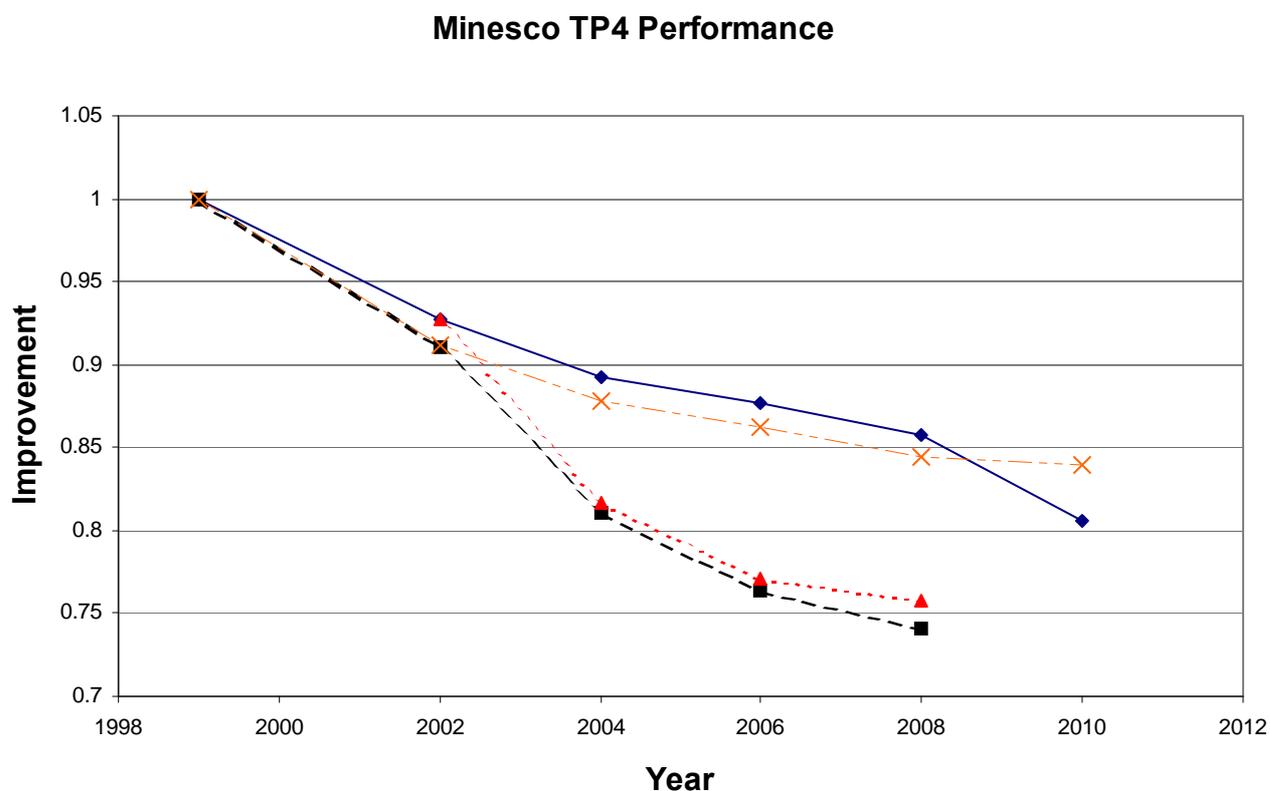
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	7.3%	9.0%
TP2	11%	19%
TP3	12%	24%
TP4	14%	26%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

³⁴ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ...▲... Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-0.4	-24	
TP2	-1.1	-63	
TP3	-1.6	-94	
TP4	-1.8	-104	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	% Change in Throughput(%)
TP1	-0.2	-9	6
TP2	0.2	9	28
TP3	0.8	46	54
TP4	0.7	43	58
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

**MOTOR MANUFACTURERS
(SOCIETY OF MOTOR MANUFACTURERS AND TRADERS - SMMT)**

Scope and membership of the umbrella agreement

SMMT represents the major motor manufacturing companies in the UK, including manufacturers of cars, vans, heavy goods vehicles and automotive components.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per vehicle (kWh_p/vehicle). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1995 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/vehicle)	TP1(2002) (kWh_p/vehicle)	TP2(2004) (kWh_p/vehicle)	TP3(2006) (kWh_p/vehicle)	TP4(2008) (kWh_p/vehicle)	TP5(2010) (kWh_p/vehicle)
Original	3,298	3,036	2,962	2,881	2,839	2,792
At TP1	3,403	3,147	3,069	2,980	2,930	2,876
2004 Review*	-	-	-	3%	3%	4%
At TP2	3,873	-	3,569	3,372	3,316	3,225
At TP3	4,340	-	-	3,821	3,886	3,778
2008 Review*	-	-	-	-	-	32.9%
At TP4	5,639	-	-	-	4,595	3,153

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 484 ktCO₂ were ring-fenced
- Allowances equivalent to 37 ktCO₂ were purchased

Overall, there was a net ring-fencing of 447 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 2,929 kWh_p/vehicle. This includes adjustments for EU ETS (see details below) and is equivalent to a sector target change (tightening) of –1,665 kWh_p/vehicle.

Sector performance recorded

The following table shows the sector performance against the equivalent³⁵ baseline for all target periods to date.

	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (Vehicles)	SEC (kWh/vehicle)	Energy (kWh)	Production (Vehicles)	SEC (kWh/vehicle)
TP1	4,994,721,611	1,467,581	3,403	4,799,434,116	1,708,788	2,809
TP2	5,128,820,799	1,324,202	3,873	5,069,356,816	1,875,030	2,704
TP3*	5,307,447,471	1,222,787	4,340	4,365,319,869	1,709,737	2,553
TP4	5,642,683,580	1,000,733	5,639	4,395,976,322	1,774,216	2,478

*Figures have been adjusted as a result of a post TP3 site audit.

Adjustment for overlap with EU ETS

11 Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

Two Target Units had their targets tightened due to double counting. Nine Target Units voluntarily retired surplus EU ETS allowances and so an adjustment to their targets was not required. Overall, there was an EU ETS excess of 83 ktCO₂, which resulted in an adjustment (tightening) to the sector target of -261 kWh_p/vehicle. This is included within the adjusted target described above.

Commentary

The sector performance of 2,478 kWh_p/vehicle is below the CCA adjusted target of 2,929 kWh_p/vehicle and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

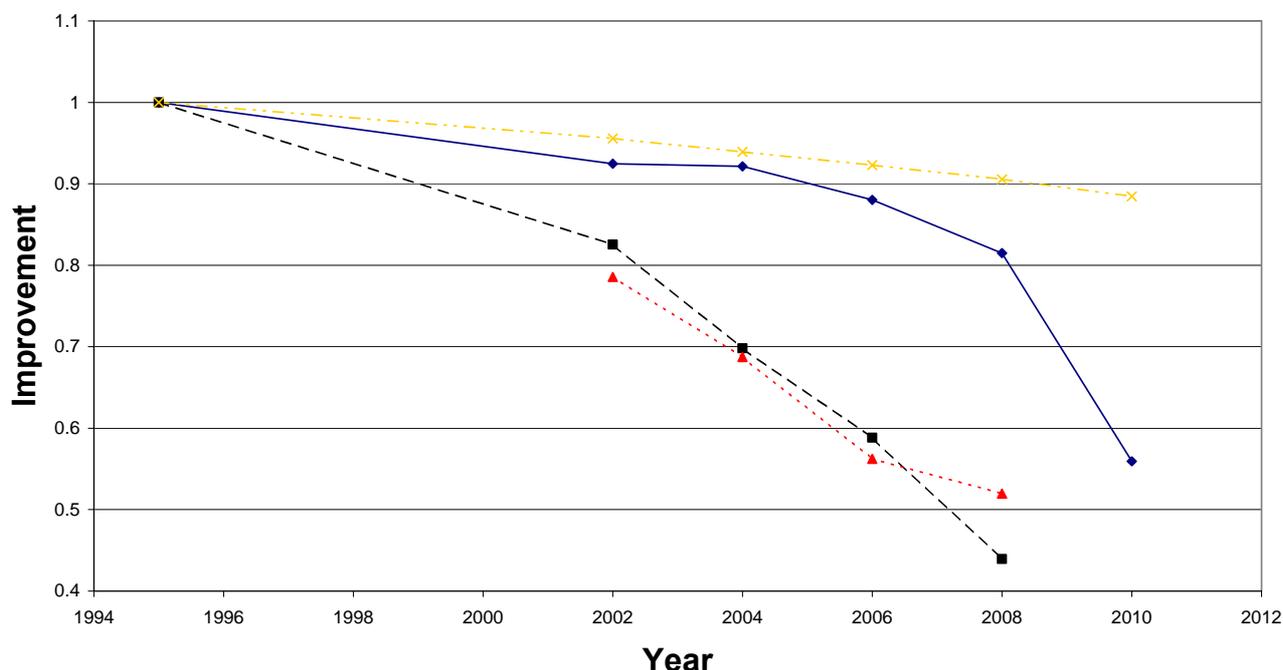
Improvement in SEC compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	7.5%	17%
TP2	7.9%	30%
TP3	12%	41%
TP4	19%	56%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

³⁵ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

SMMT TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-3.7	-185
TP2	-7.9	-398
TP3*	-11.0	-552
TP4	-20.2	-1007

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

*Figures have been adjusted as a result of a post TP3 site audit.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.7	-36	16
TP2	-0.2	-11	42
TP3*	-3.4	-170	40
TP4	-4.5	-224	77

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

*Figures have been adjusted as a result of a post TP3 site audit

NON-FERROUS METALS (NON-FERROUS ALLIANCE - NFA)

Scope and membership of the umbrella agreement

NFA represents the non-ferrous metals sector – copper, zinc, lead, nickel, and galvanizers and battery manufacturers. Aluminium is the subject of a separate agreement.

This sector has a Target Unit that has an installation in EU ETS.

Targets

Original and current milestone targets for this sector are shown below as primary kWh (kWh_p). The targets for this sector are expressed as 'at an assumed level of throughput' and the sector has agreed a procedure with Defra for this. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1998 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p)	TP1(2002) (kWh _p)	TP2(2004) (kWh _p)	TP3(2006) (kWh _p)	TP4(2008) (kWh _p)	TP5(2010) (kWh _p)
Original	5,176,838,835	5,568,437,819	5,939,713,376	5,976,922,362	5,716,221,438	5,776,580,063
At TP1	5,986,760,187	6,345,235,016	6,705,213,171	6,722,001,578	6,437,918,013	6,470,971,972
2004 Review*	-	-	-	7.67%	6.88%	6.15%
At TP2	4,410,409,782	-	4,757,303,923	4,442,372,516	4,463,706,018	4,478,409,612
At TP3	4,388,016,950	-	-	4,200,830,922	4,210,131,187	4,213,410,678
2008 Review*	-	-	-	-	-	2.5%
At TP4	4,218,810,962	-	-	-	4,212,873,857	4,091,343,142

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 47 ktCO₂ were ring-fenced
- Allowances equivalent to 26 ktCO₂ were purchased

Overall, there was a net ring-fencing of 21 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

The sector has an agreed methodology for adjusting the targets for throughput; this resulted in a net change to the sector target of -586,126,106 kWh_p.

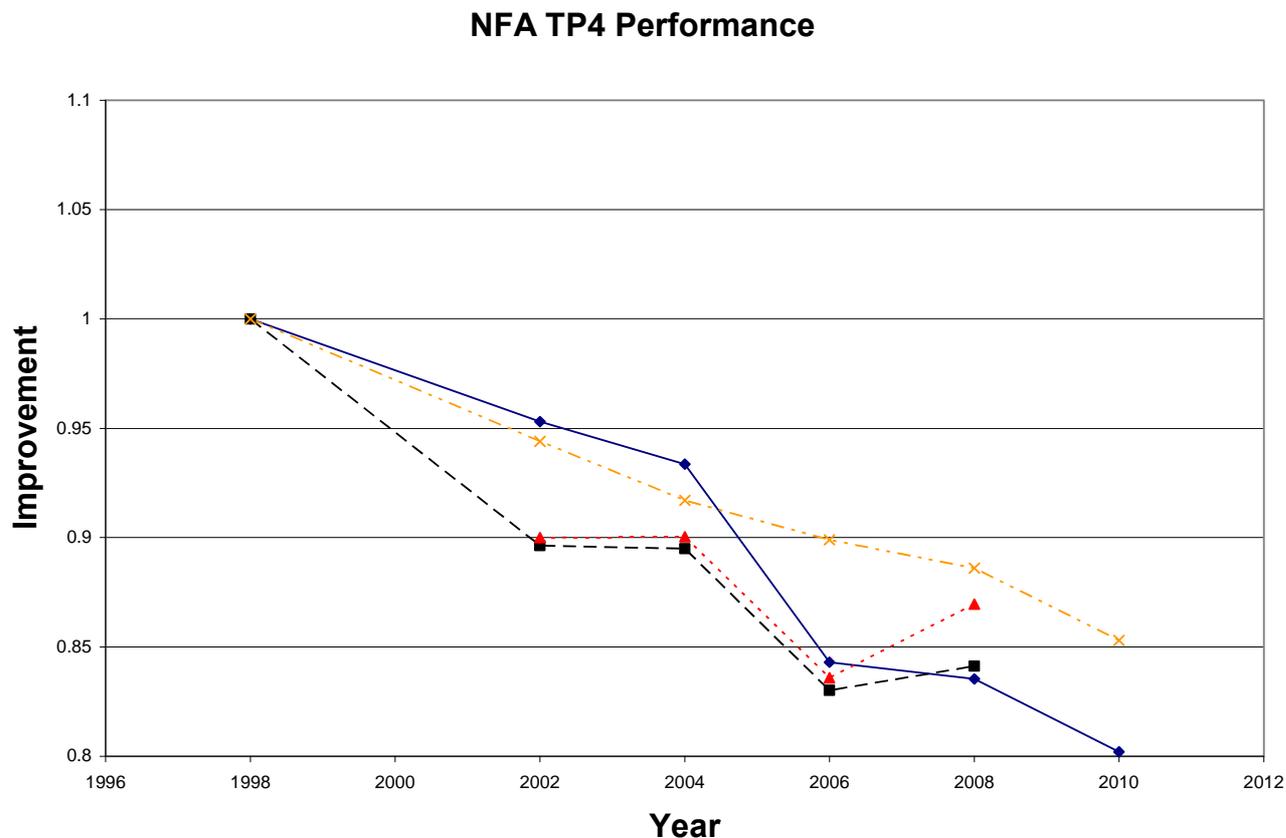
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 3,462,315,833 kWh_p. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of -750,558,024 kWh_p.

Sector performance recorded						
The following table shows the sector performance against the equivalent ³⁶ baseline for all target periods to date.						
	Equivalent baseline (1998)			Performance		
	Energy (kWh _p)	Production	SEC	Energy (kWh _p)	Production	SEC
TP1	5,986,760,187	N/A	N/A	5,380,280,623	N/A	N/A
TP2	4,410,409,782	N/A	N/A	3,947,755,102	N/A	N/A
TP3	4,388,016,950	N/A	N/A	3,377,244,326	N/A	N/A
TP4	4,218,810,962	N/A	N/A	3,349,456,627	N/A	N/A
Adjustment for overlap with EU ETS						
One Target Unit reporting at TP4 was part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. This Target Unit was required to adjust its target for double counting between these two schemes.						
The Target Unit had its target tightened due to double counting. The total net effect of double counting was an excess of 9 ktCO ₂ which resulted in an adjustment (tightening) of -49,891,910 kWh.						
Commentary						
The sector performance of 3,349,456,627 kWh _p is below the CCA adjusted target of 3,462,315,833 kWh _p and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1998) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	4.7%		10%			
TP2	6.6%		11%			
TP3	15.7%		17%			
TP4	16.5%		16%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

³⁶ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆ Target profile
- Actual performance
- ▲ Target after adjustments
- ✕ Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1998) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-2.2	-137
TP2	-1.7	-78
TP3	-2.5	-125
TP4	-2.3	-115

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂
The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1998) position for each target period. The percentage change in throughput is not shown as the sector uses mixed units to calculate its throughput. (Negative values imply a fall in emissions.)

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-2.2	-134	N/A
TP2	-1.7	-78	N/A
TP3	-3.6	-183	N/A
TP4	-3.1	-158	N/A

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

**PACKAGING AND INDUSTRIAL FILMS
(PACKAGING AND FILMS ASSOCIATION - PIFA)**

Scope and membership of the umbrella agreement

PIFA represents the companies in the UK that produce and supply plastic film produced using extrusion to convert melted polymer into blown or cast film. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in kilograms of carbon per tonne (kgC/tonne). The sector agreement is a relative carbon agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline kgC/t	TP1(2002)	TP2(2004)	TP3(2006) kgC/t	TP4(2008) kgC/t	TP5(2010) kgC/t
Original	80.12	N/A	N/A	77.71	74.51	70.50
At TP3	80.35	N/A	N/A	77.82	74.72	70.71
2008 Review*	-	-	-	-	-	1%
At TP4	75.92	-	-	-	70.83	66.09

* The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 8 ktCO₂ were ring-fenced
- Allowances equivalent to 17 ktCO₂ were purchased

Overall there was a net purchase of 9 ktCO₂, equivalent to a sector target change (easing) of 3.10 kgC/t, (Note - figures rounded for presentation).

Other adjustments

No other adjustments were made.

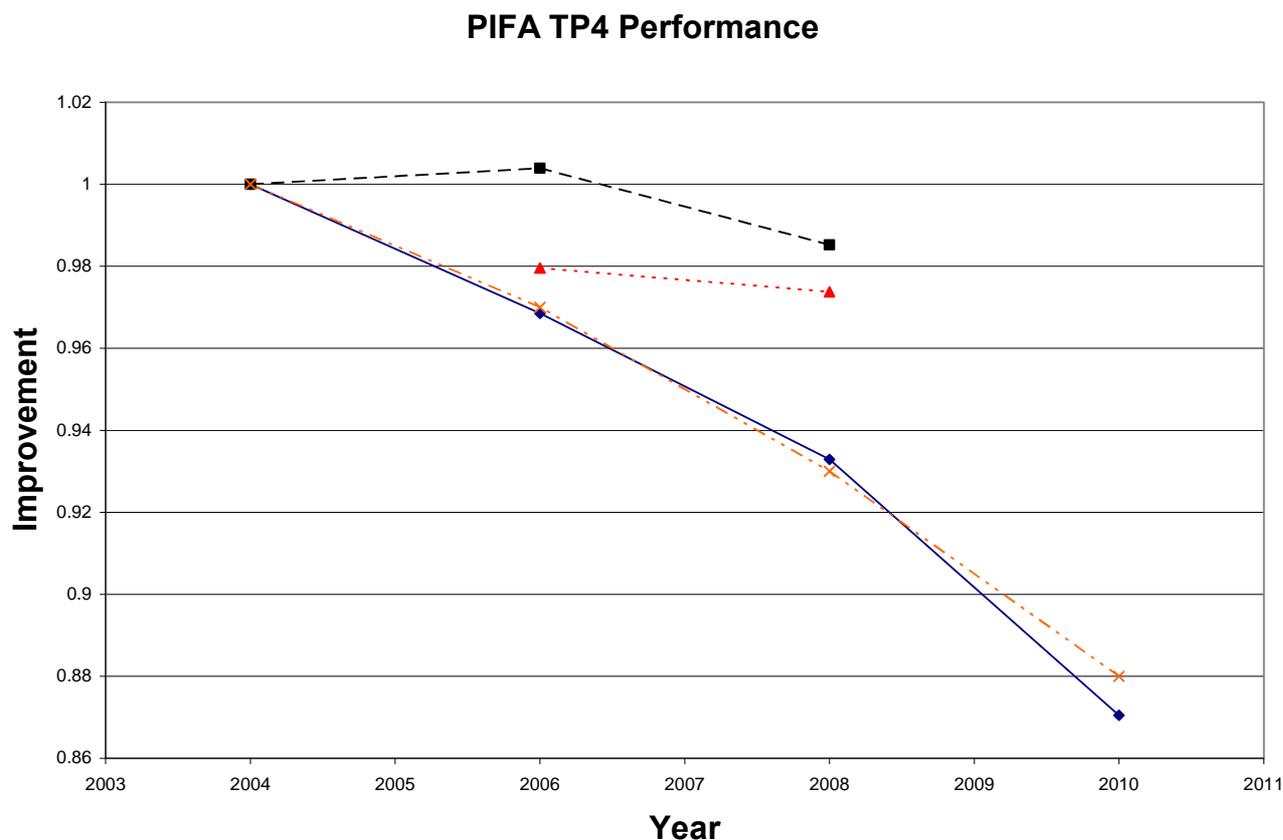
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 73.93 kgC/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ³⁷ baseline for all target periods to date.						
	Equivalent baseline (2004)			Performance		
	Carbon (kgC)	Production (tonnes)	SCC (kgC/tonne)	Carbon (kgC)	Production (tonnes)	SCC (kgC/tonne)
TP3	20,556,099	255,835	80.35	20,905,047	259,169	80.66
TP4	58,695,392	773,092	75.92	58,594,052	783,340	74.80
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 74.80 kgC/t is above the CCA adjusted target of 73.93 kgC/t and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP3	3.2%		-0.4%			
TP4	6.7%		1.5%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

³⁷ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP3	0.01	0.30	
TP4	-0.07	-3.2	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	-0.03	1	1
TP4	-0.01	-0.4	1
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

PAPER (CONFEDERATION OF PAPER INDUSTRIES - CPI)

Scope and membership of the umbrella agreement

The Confederation of Paper Industries (CPI – formerly known as The Paper Federation) represents the paper industry in the UK. The CPI CCA covers all eligible facilities of the UK paper manufacturing industry.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t) of paper produced. The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The baseline represents the best equivalent figure for the performance of the UK paper manufacturing industry as a whole in 1990 and, consequently, is not altered for any exits or entrants from the agreement. The baseline does not form part of the CCA and is used only for comparative purposes.

The following table shows the targets and equivalent 1990 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	6,576	4,659	4,420	4,199	4,090	3,959
At TP1	6,576	4,637	4,416	4,349	4,265	4,163
2004 Review*	-	-	-	2.78%	2.21%	2.60%
At TP2	6,576	-	4,454	4,264	4,205	4,088
At TP3	6,576	-	-	4,287	4,215	4,098
2008 Review*	-	-	-	-	-	5.0%
At TP4	6,576	-	-	-	4,235	3,977

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

The sector operates a collective trading arrangement, which at this target period encompassed all but one target unit within the sector.

- Allowances equivalent to 290 ktCO₂ were ring-fenced

Overall, there was a net ring-fencing of 290 ktCO₂, equivalent to a sector target change (tightening) of -294 kWh_p/t (Note – figures rounded for presentation).

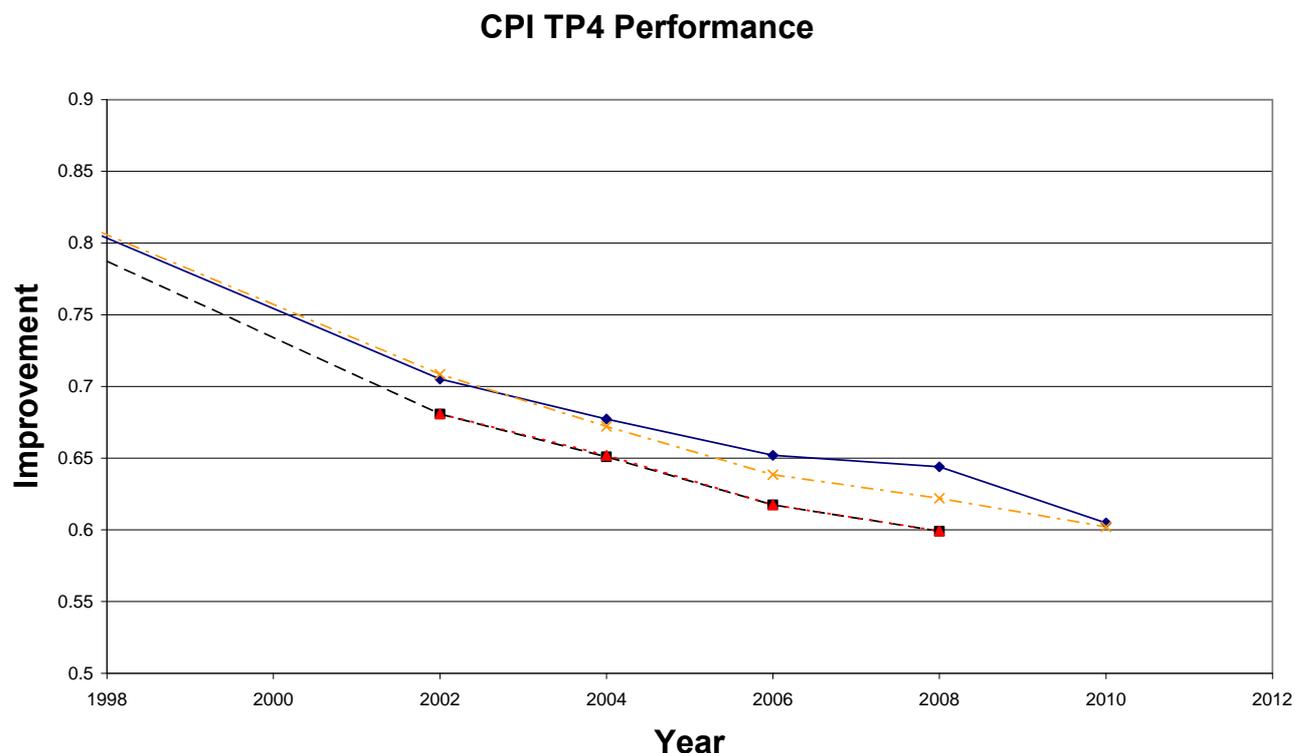
Other adjustments

No other adjustments were made.

<p>Final adjusted CCA sector target for the TP4 As a consequence of the adjustments described above, the final sector target for the TP4 was 3,941 kWh_p/t.</p>						
<p>Sector performance recorded The following table shows the sector performance against the equivalent³⁸ baseline for all target periods to date.</p>						
	Equivalent baseline (1990)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	25,902,356,203	3,939,080	6,576	28,595,774,290	6,388,404	4,476
TP2	25,902,356,203	3,939,080	6,576	27,216,229,382	6,358,595	4,280
TP3	25,902,356,203	3,939,080	6,576	22,856,344,695	5,630,279	4,060
TP4	25,902,356,203	3,939,080	6,576	20,696,540,994	5,253,107	3,940
<p>Adjustment for overlap with EU ETS Three Target Units within the sector trading group reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes. The sector purchased and retired sufficient allowances equivalent to the three Target Units voluntarily retiring all of their surplus EU ETS allowances, and so an adjustment to their CCA targets was not required.</p>						
<p>Commentary The sector performance of 3,940 kWh_p/t is below the CCA adjusted target of 3,941 kWh_p/t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met. The following table shows how the sector has improved relative to the equivalent base year (1990) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).</p>						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement		Actual Improvement			
TP1	30%		32%			
TP2	32%		35%			
TP3	35%		38%			
TP4	36%		40%			
<p>NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.</p>						

³⁸ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1990) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-49.0	-2,600
TP2	-52.5	-2,758
TP3	-51.0	-2,683
TP4	-49.8	-2,599

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1990) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	9.7	510	62
TP2	4.7	248	61
TP3	-11.0	-577	43
TP4	-18.7	-977	33

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

PIG FARMING (NATIONAL FARMERS UNION – NFU)

Scope and membership of the umbrella agreement

The NFU pigs agreement covers sites undertaking the intensive rearing of pigs.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per kilogram (kWh_p/kg) of live weight. The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data (however, at TP1 only, the sector targets were not adjusted).

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /kg)	TP1(2002) (kWh _p /kg)	TP2(2004) (kWh _p /kg)	TP3(2006) (kWh _p /kg)	TP4(2008) (kWh _p /kg)	TP5(2010) (kWh _p /kg)
Original	1.178	1.104	1.058	1.035	1.001	0.966
At TP1	1.178	1.104	1.058	1.035	1.001	0.966
2004 Review*	-	-	-	11.3%	10.6%	11.0%
At TP2	1.281	-	1.131	0.982	0.956	0.919
At TP3	1.271	-	-	0.974	0.949	0.911
2008 Review*	-	-	-	-	-	4.0%
At TP4	1.460	-	-	-	1.016	0.935

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 8 ktCO₂ were ring-fenced
- Allowances equivalent to 2 ktCO₂ were purchased

Overall, there was a net ring-fencing of 6 ktCO₂, equivalent to a sector target change (tightening) of -0.152 kWh_p/kg (Note – figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 0.865 kWh_p/kg.

Sector performance recorded

The following table shows the sector performance against the equivalent³⁹ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (kg)	SEC (kWh _p /kg)	Energy (kWh)	Production (kg)	SEC (kWh _p /kg)
TP1*	449,754,685	366,745,044	1.226	374,326,219	353,132,242	1.060
TP2	343,374,784	267,975,253	1.281	271,263,380	270,487,096	1.003
TP3	312,196,679	245,634,153	1.271	249,381,302	270,356,448	0.922
TP4	284,389,628	194,789,397	1.460	195,368,140	236,994,983	0.824

* This is the equivalent baseline for those target units that reported at TP1, although the sector target at TP1 was not adjusted for entrants and exits.

Adjustment for overlap with EU ETS

No target units reporting at TP4 are part of EU ETS so no adjustments were required.

Commentary

The sector performance of 0.824 kWh_p/kg is below the CCA adjusted target of 0.865 kWh_p/kg, and therefore the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

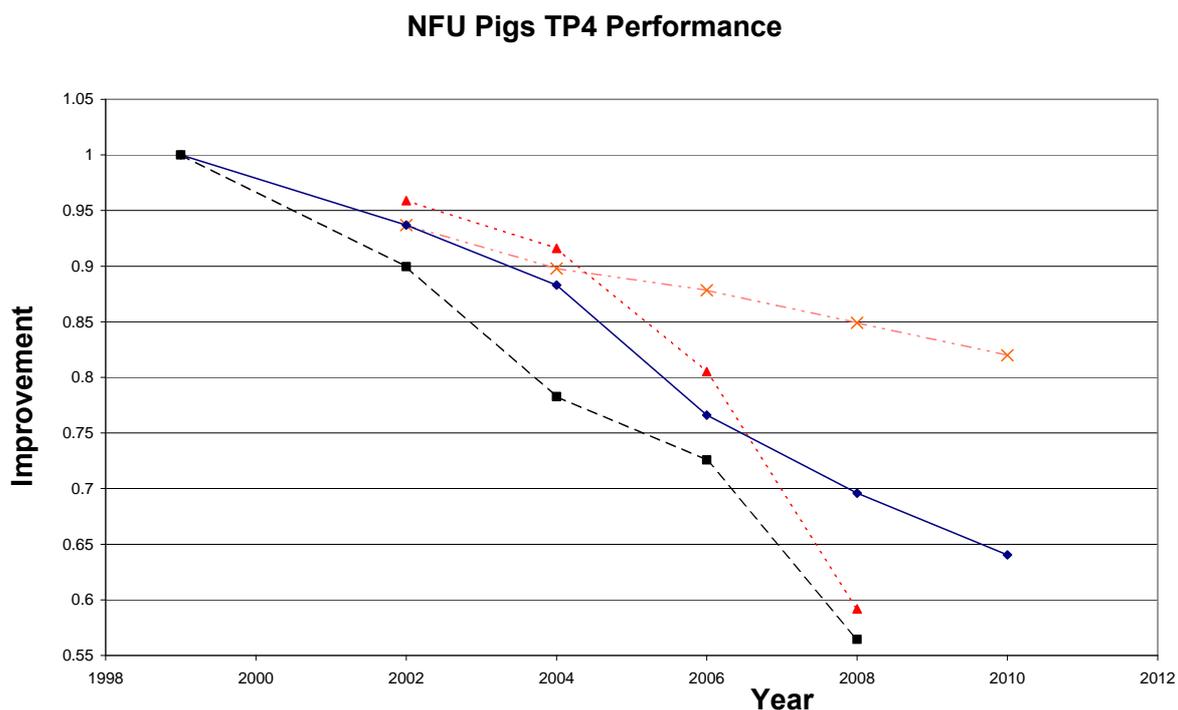
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1*	6.3%	10%
TP2	12%	22%
TP3	23%	27%
TP4	30%	44%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

* The TP1 figures here are relative to the unchanged target and its baseline, rather than the baseline equivalent to those that reported.

³⁹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.2	-11
TP2	-0.3	-13
TP3	-0.3	-16
TP4	-0.5	-26

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.3	-14	-4
TP2	-0.3	-13	0.9
TP3	-0.2	-11	10
TP4	-0.3	-16	21

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

POULTRY MEAT PROCESSING (BRITISH POULTRY COUNCIL – BPC)

Scope and membership of the umbrella agreement

The British Poultry Council poultry meat processing agreement principally covers slaughter/meat processing plants, but also a small number of feed mills that are dedicated to serving farms within companies' integrated production structures.

This sector has Target Units with installations in EU ETS. The sector has provided information to show performance both in the presence and absence of adjustments applied due to EU ETS.

Targets

The targets for this sector are given in primary kWh per tonne of production (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	743.3	689.7	680.1	670.5	661.0	651.5
At TP1	694.3	649.8	640.6	631.5	622.6	613.6
2004 Review*	-	-	-	1.5%	2.5%	3.9%
At TP2	665.1	-	611.6	594.4	580.1	563.5
At TP3	651.2	-	-	582.0	567.9	551.7
2008 Review*	-	-	-	-	-	0%
At TP4	609.3	-	-	-	543.5	528.6

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 66 ktCO₂ were ring-fenced
- Allowances equivalent to 27 ktCO₂ were purchased

Overall, there was a net ring-fencing of 39 ktCO₂, equivalent to a sector target change (tightening) of –67.5 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 476.0 kWh_p/t.

Sector performance recorded

The following table shows the sector performance against the equivalent⁴⁰ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	1,972,981,832	2,841,829	694.3	2,110,390,477	3,379,220	624.5
TP2	1,810,054,398	2,721,589	665.1	2,029,881,235	3,265,232	621.7
TP3	1,692,621,599	2,599,081	651.2	1,891,874,848	3,222,772	587.0
TP4	1,518,995,084	2,493,082	609.3	1,797,026,407	3,215,821	558.8

Adjustment for overlap with EU ETS

Two Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

Both Target Units had their targets eased due to double counting. Overall, there was an EU ETS deficit of 8 ktCO₂ that resulted in an adjustment (easing) to the CCA target of 13.7 kWh_p/t.

Commentary

The sector performance of 558.8 kWh_p/t is above the CCA adjusted target of 476.0 kWh_p/t and, therefore, the sector did not meet its CCA target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The adjustment for overlap with EU ETS changed the CCA target to 475.9 kWh_p/t. The change to the CCA target was minimal because the two facilities whose targets were eased increased their ring-fencing. The actual net trading was ring-fencing of 47 ktCO₂.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

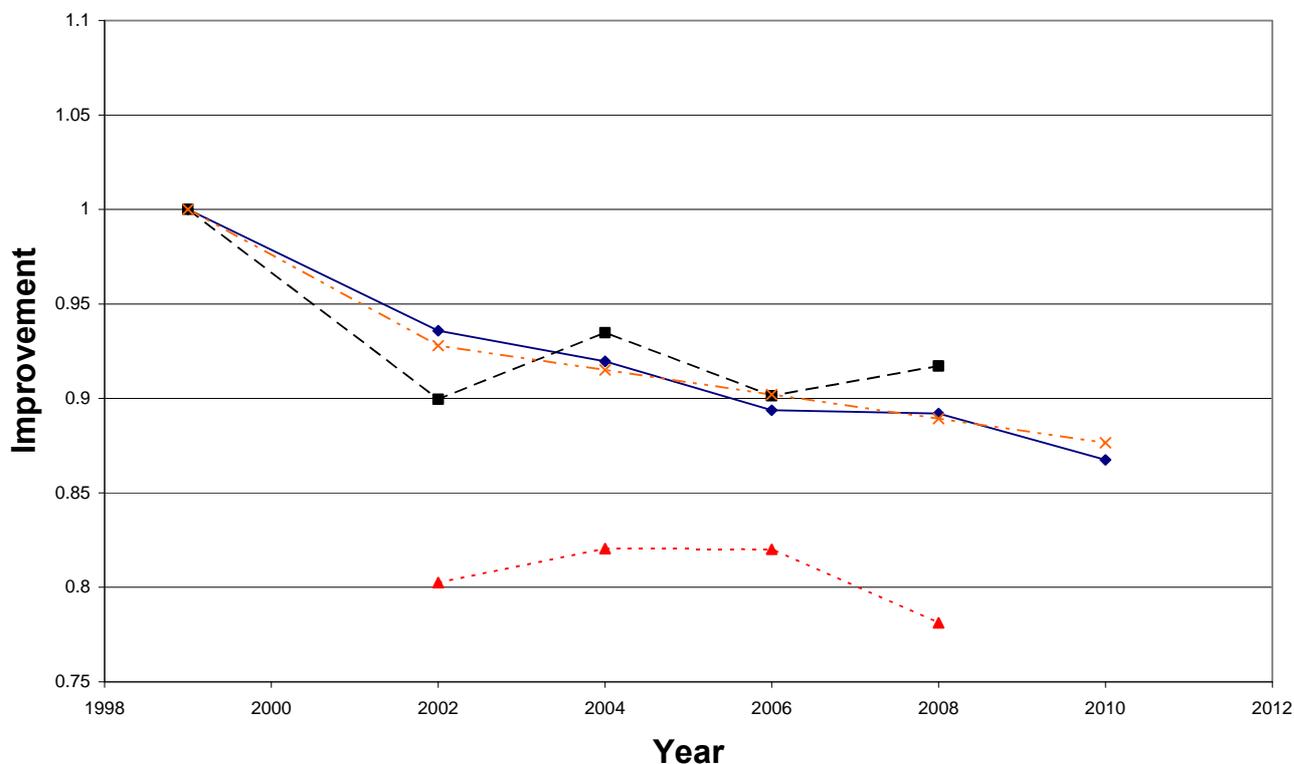
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	6.4%	10%
TP2	8.0%	6.5%
TP3	11%	10%
TP4	11%	8.3%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

⁴⁰ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BPC Processing TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-0.8	-38	
TP2	-0.5	-26	
TP3	-0.7	-38	
TP4	-0.6	-29	

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂
The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	0.5	30	19
TP2	0.8	40	20
TP3	0.7	36	24
TP4	1.0	50	29

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

POULTRY MEAT PRODUCTION (NATIONAL FARMERS UNION – NFU)

Scope and membership of the umbrella agreement

The NFU poultry meat production agreement covers sites undertaking the intensive rearing of poultry for meat.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per kilogram of live weight (kWh_p/kg). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data (however, at TP1 only, the sector targets were not adjusted).

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /kg)	TP1(2002) (kWh _p /kg)	TP2(2004) (kWh _p /kg)	TP3(2006) (kWh _p /kg)	TP4(2008) (kWh _p /kg)	TP5(2010) (kWh _p /kg)
Original	0.765	0.731	0.713	0.690	0.668	0.653
At TP1	0.765	0.731	0.713	0.690	0.668	0.653
2004 Review*	-	-	-	22.7%	22.7%	22.7%
At TP2	1.230	-	1.134	0.846	0.818	0.799
At TP3	1.255	-	-	0.863	0.834	0.815
2008 Review*	-	-	-	-	-	3.9%
At TP4	1.610	-	-	-	0.960	0.896

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 21 ktCO₂ were ring-fenced
- Allowances equivalent to 6 ktCO₂ were purchased

Overall, there was a net ring-fencing of 15 ktCO₂, equivalent to a sector target change (tightening) of -0.159 kWh_p/kg (Note – figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 0.801 kWh_p/kg.

Sector performance recorded

The following table shows the sector performance against the equivalent⁴¹ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (kg)	SEC (kWh _p /kg)	Energy (kWh)	Production (kg)	SEC (kWh _p /kg)
TP1*	623,752,307	530,011,862	1.177	576,782,605	604,206,439	0.955
TP2	559,596,594	455,045,922	1.230	478,721,051	546,096,662	0.877
TP3	545,236,392	434,366,661	1.255	456,840,957	561,347,687	0.814
TP4	592,604,550	368,048,811	1.610	345,861,035	462,773,576	0.747

* This is the equivalent baseline for those target units that reported at TP1, although the sector target at TP1 was not adjusted for entrants and exits.

Adjustment for overlap with EU ETS

No target units reporting at TP4 are part of EU ETS so no adjustments were required.

Commentary

The sector performance of 0.747 kWh_p/kg is below the CCA adjusted target of 0.801 kWh_p/kg, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

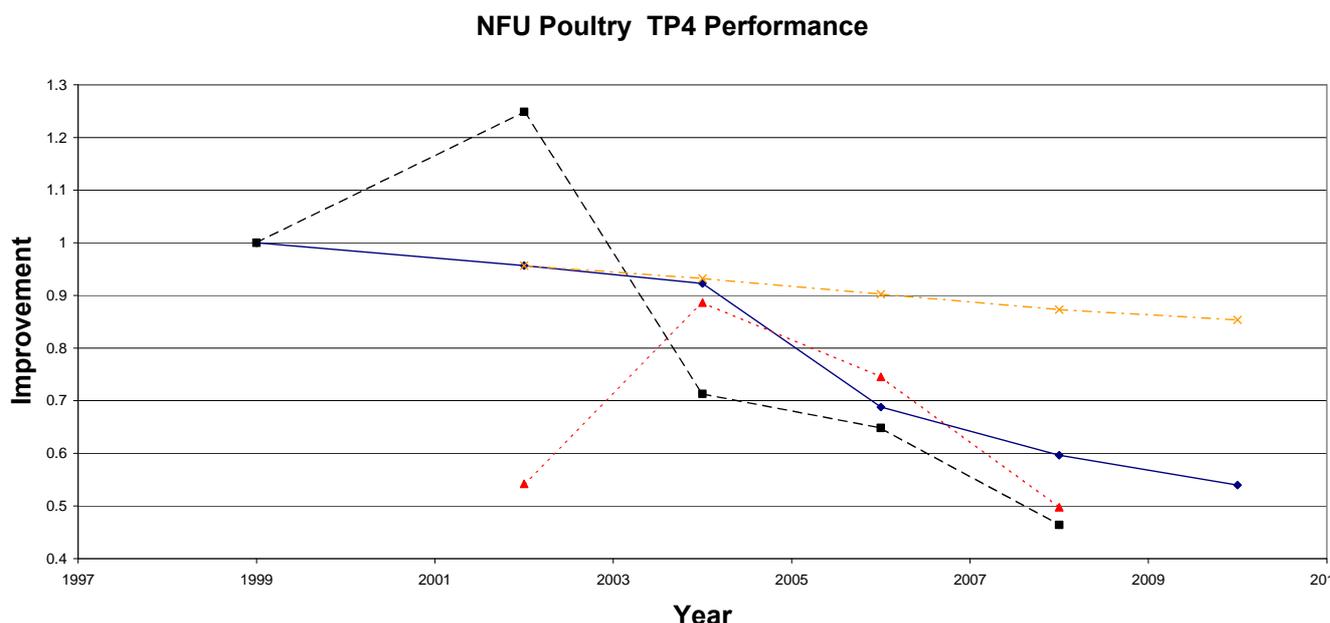
	Change in SEC compared with Equivalent Baseline at each Target period	
	Target Improvement	Actual Improvement
TP1*	4.3%	-25%
TP2	7.8%	29%
TP3	31%	35%
TP4	40%	54%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

* The TP1 figures here are relative to the unchanged target and its baseline, rather than the baseline equivalent to those that reported.

⁴¹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- .-▲-.- Target after adjustments
- .-×-.- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput had remained constant at the target period throughput level. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Annual Change in Relative Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-0.5	-28
TP2	-0.7	-40
TP3	-0.9	-51
TP4	-1.4	-82

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Annual Change in Absolute Energy and CO ₂ compared with Equivalent Baseline		
	Energy (PJ)	CO ₂ (kilotonnes)	Production (%)
TP1	-0.2	-10	14
TP2	-0.3	-17	20
TP3	-0.3	-18	29
TP4	-0.9	-51	26

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

POULTRY MEAT REARING (BRITISH POULTRY COUNCIL – BPC)

Scope and membership of the umbrella agreement

The British Poultry Council Poultry Meat Rearing Agreement covers sites undertaking the intensive rearing of poultry for meat. The scope of this agreement is essentially the same as that for the NFU Poultry Meat Rearing agreement, but participants in the BPC agreement tend to be the larger, integrated producers.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne of production (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	1,498	1,425	1,392	1,351	1,310	1,283
At TP1	1,490	1,414	1,381	1,340	1,299	1,271
At TP2	1,475	-	1,296	1,137	1,106	1,081
2004 Review*	1,155	-	-	1.6% 1,137	4.3% 1,106	6.4% 1,081
At TP3	1,148	-	-	1,127	1,099	1,075
2008 Review*	-	-	-	-	-	2.0%
At TP4	1,146	-	-	-	1,086	1,047

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews. The row '2004 review' of targets was not completed until after the results of TP2 were known. It was agreed that the sector be rebaselined to TP2 performance and given tighter targets as shown above.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 7 ktCO₂ were ring-fenced
- Allowances equivalent to 20 ktCO₂ were purchased

Overall there was a net purchase of 13 ktCO₂, equivalent to a sector target change (easing) of 56 kWh_p/t (Note - figures rounded for presentation).

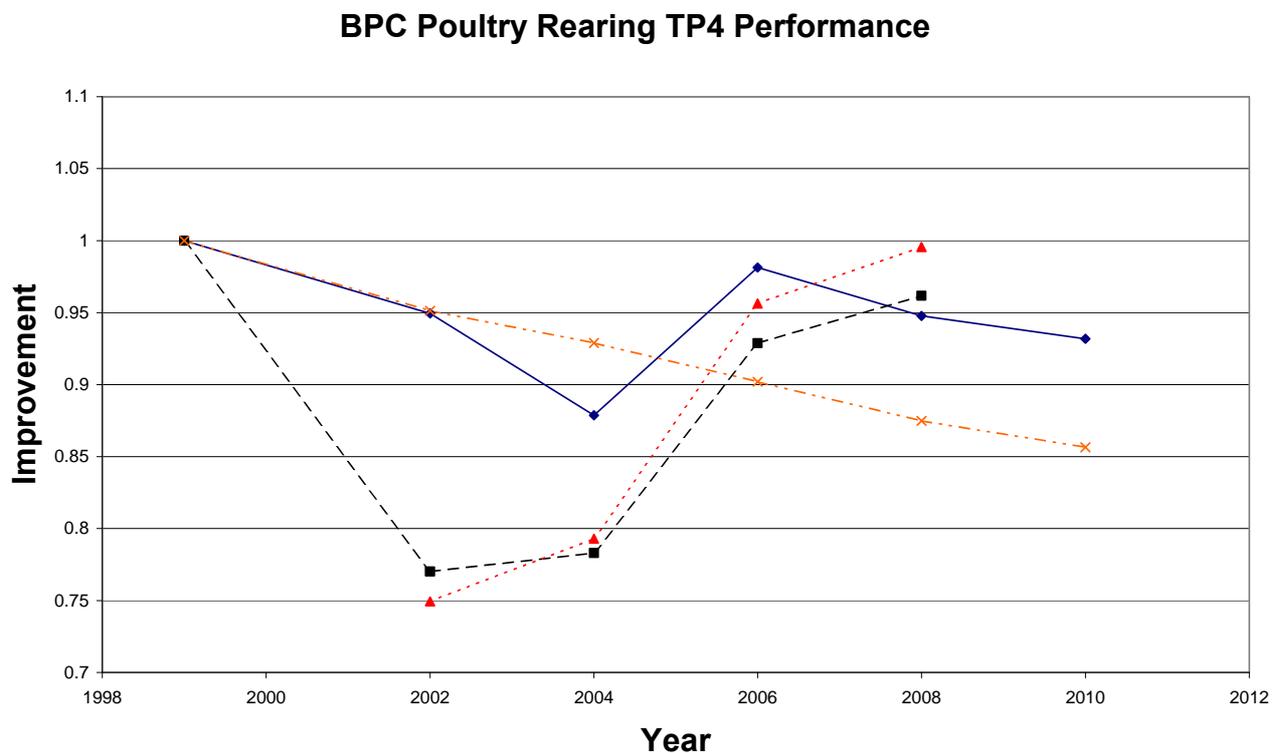
Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4						
As a consequence of the adjustments described above, the final sector target for the TP4 was 1,142 kWh _p /t.						
Sector performance recorded						
The following table shows the sector performance against the equivalent ⁴² baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (tonnes)	SEC (kWh_p/t)	Energy (kWh)	Production (tonnes)	SEC (kWh_p/t)
TP1	1,701,957,155	1,142,494	1,490	1,350,915,612	1,177,459	1,147
TP2	1,667,364,509	1,130,140	1,475	1,351,750,164	1,170,159	1,155
TP3	1,372,206,196	1,194,958	1,148	1,182,542,447	1,108,798	1,067
TP4	1,395,892,647	1,217,644	1,146	1,222,386,373	1,108,807	1,102
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 1,102 kWh _p /t is below the CCA adjusted target of 1,142 kWh _p /t, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
	Improvement in SEC compared with Equivalent Baseline at each Target Period					
	Target Improvement			Actual Improvement		
TP1	5.1%			23%		
TP2	12%			22%		
TP3	1.9%			7.1%		
TP4	5.2%			3.8%		
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁴² Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The ‘target profile’ reflects the data as detailed in the **Targets** section above.

The ‘target after adjustments’ reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kt)
TP1	-1.5	-82
TP2	-1.3	-77
TP3	-0.3	-19
TP4	-0.2	-10

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂
The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kt)	Production (%)
TP1	-1.3	-72	3
TP2	-1.1	-65	4
TP3	-0.7	-39	-7
TP4	-0.6	-36	-9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

PRINTING (BRITISH PRINTING INDUSTRIES FEDERATION - BPIF)

Scope and membership of the umbrella agreement

BPIF represents the printing industry in the UK, including printers of newspapers, books, magazines and stationery, carrying out a range of printing activities, including lithography, letterpress, flexography, gravure and screen process.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per m² (kWh_p/m²). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/m²)	TP1(2002) (kWh_p/m²)	TP2(2004) (kWh_p/m²)	TP3(2006) (kWh_p/m²)	TP4(2008) (kWh_p/m²)	TP5(2010) (kWh_p/m²)
Original	0.07934	0.07855	0.07696	0.07458	0.07220	0.06982
At TP1	0.06031	0.05971	0.05851	0.05670	0.05489	0.05308
2004 Review*	-	-	-	3.0%	3.0%	4.0%
At TP2	0.06629	-	0.06439	0.06059	0.05871	0.05633
At TP3	0.06369	-	-	0.05856	0.05651	0.05403
2008 Review*	-	-	-	-	-	2.0%
At TP4	0.07278	-	-	-	0.06576	0.06090

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 183 ktCO₂ were ring-fenced
- Allowances equivalent to 51 ktCO₂ were purchased

Overall, there was a net ring-fencing of 131 ktCO₂, equivalent to a sector target change (tightening) of -0.01315 kWh per m² (Note – figures rounded for presentation).

Other adjustments

N/A

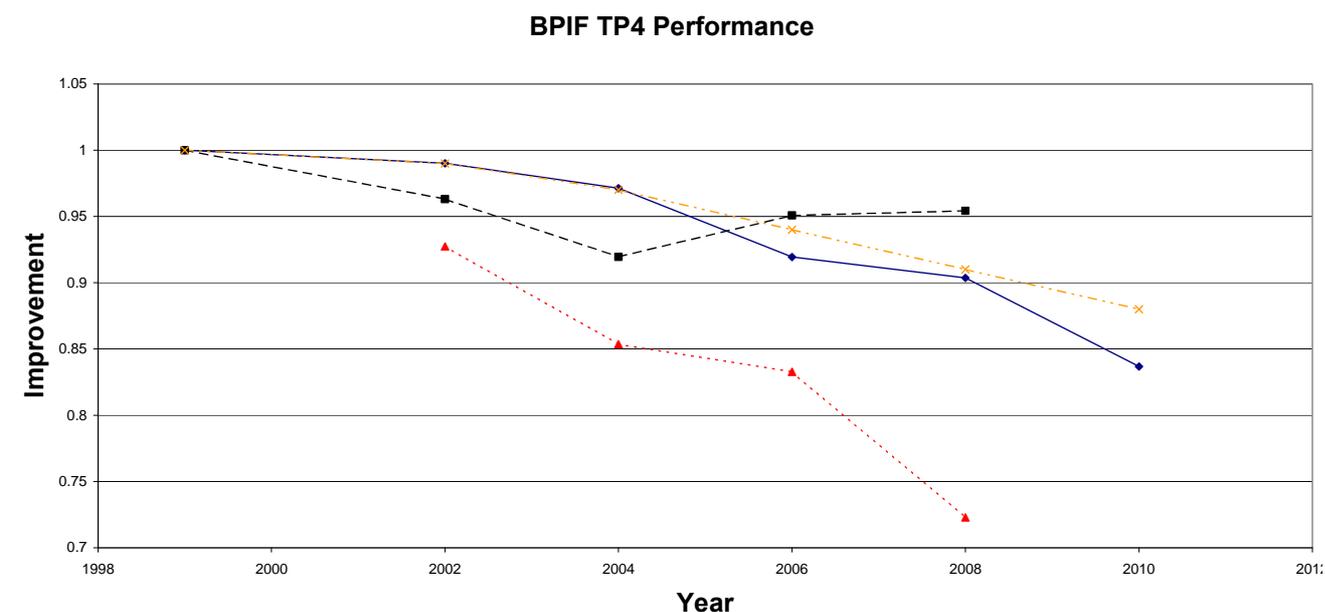
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 0.05261 kWh_p/m².

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁴³ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh _p)	Production (m ²)	SEC (kWh _p /m ²)	Energy (kWh _p)	Production (m ²)	SEC (kWh _p /m ²)
TP1	2,863,682,550	47,479,158,112	0.06032	2,848,092,064	49,029,657,717	0.05809
TP2	3,264,561,008	49,248,992,563	0.06629	3,441,878,884	56,466,309,762	0.06096
TP3	3,320,915,004	52,138,782,364	0.06369	3,595,335,068	59,371,375,235	0.06056
TP4	3,852,507,161	52,932,865,435	0.07278	4,007,199,855	57,698,822,007	0.06945
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 0.06945 kWh/m ² is above the CCA adjusted target 0.05261 kWh/m ² and, therefore, the sector did not meet its target. One facility failed to meet its target and was decertified but all other facilities were recertified because they met their individual targets, either outright or through trading.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	1.0%		3.7%			
TP2	2.9%		8.0%			
TP3	8.1%		4.9%			
TP4	9.6%		4.6%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁴³ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.4	-5.4
TP2	-1.1	-52
TP3	- 0.7	-32
TP4	- 0.7	-33

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.1	-22	3
TP2	0.6	31	15
TP3	1.0	47	14
TP4	0.6	27	9

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

RED MEAT PROCESSING (BRITISH MEAT PROCESSORS ASSOCIATION – BMPA)

Scope and membership of the umbrella agreement

The BMPA agreement covers abattoirs and primary processing for the red meat sector.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1995 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /t)	TP1(2002) (kWh _p /t)	TP2(2004) (kWh _p /t)	TP3(2006) (kWh _p /t)	TP4(2008) (kWh _p /t)	TP5(2010) (kWh _p /t)
Original	648.6	607.3	587.6	571.5	563.3	554.9
At TP1	679.5	636.0	614.6	597.1	588.2	579.1
2004 Review*	-	-	-	0%	0%	0%
At TP2	739.4	644.2	674.4	654.9	644.8	634.7
At TP3	853.5	-	-	759.4	746.9	733.5
2008 Review*	-	-	-	-	-	4.0%
At TP4	836.8	-	-	-	733.3	691.0

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 111 ktCO₂ were ring-fenced
- Allowances equivalent to 32 ktCO₂ were purchased

Overall, there was a net ring-fencing of 80 ktCO₂, equivalent to a sector target change (tightening) of -161.7 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 571.6 kWh/t.

Sector performance recorded

The following table shows the sector performance against the equivalent⁴⁴ baseline for all target periods to date.

	Equivalent baseline (1995)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh/t)	Energy (kWh)	Production (t)	SEC (kWh/t)
TP1	1,603,882,570	2,360,475	679.5	1,528,147,898	2,242,045	681.6
TP2	1,814,611,237	2,454,888	739.2	1,904,325,410	2,588,094	735.8
TP3	1,770,467,699	2,074,330	853.5	1,949,520,705	2,698,445	722.5
TP4	1,698,964,654	2,030,192	836.8	2,017,305,214	2,800,624	720.3

Adjustment for overlap with EU ETS

No target units reporting at TP4 are part of EU ETS so no adjustments were required.

Commentary

The sector performance of 720.3 kWh_p/t is above the CCA adjusted target of 571.6 kWh/t and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1995) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

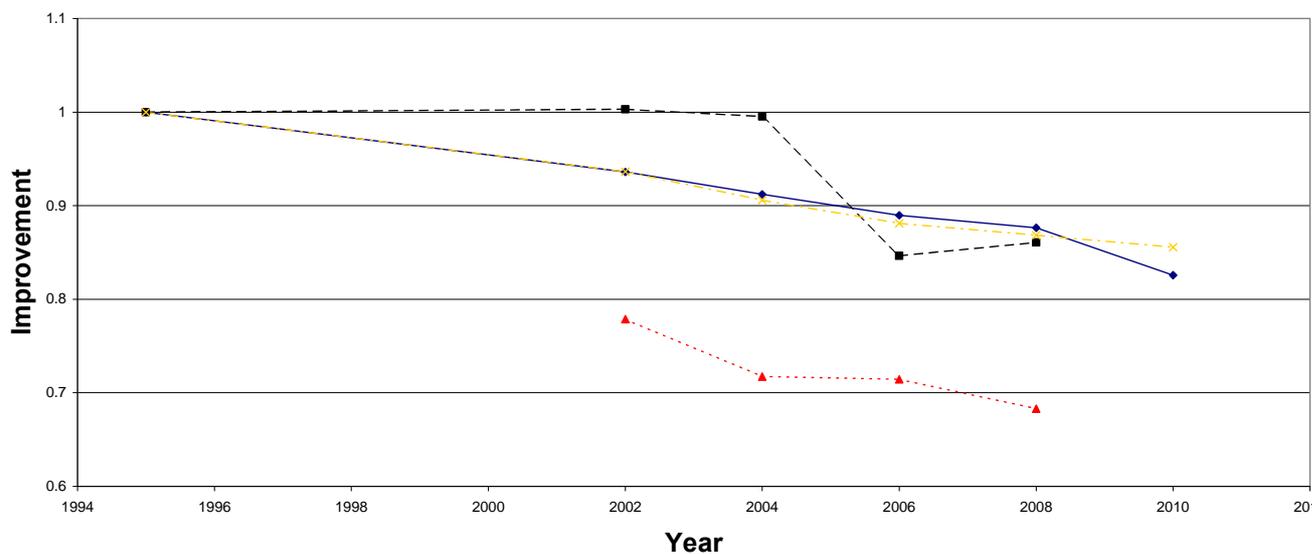
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	6.4%	-0.3%
TP2	8.8%	0.5%
TP3	11%	15%
TP4	12%	14%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

⁴⁴ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BMPA (Formerly BMF) TP4 Performance



Key

- ◆— Target profile
- ▲--- Target after adjustments
- Actual performance
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	0.02	-12
TP2	-0.03	-2
TP3	-1.3	-62
TP4	-1.2	-57

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1995) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.3	-27	-5
TP2	0.3	16	5
TP3	0.6	31	30
TP4	1.2	56	38

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

RENDERERS (THE UK RENDERERS ASSOCIATION - UKRA)

Scope and membership of the umbrella agreement

UKRA represents plant in the UK rendering sector. A facility belongs to the rendering sector if it is a facility that is engaged in rendering animal material (that is not for human consumption) by utilising heat treatment to reduce moisture content and separation of animal protein from tallow by centrifuging and pressing.
This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh per tonne of throughput (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	902.0	891.2	871.4	856.0	840.7	825.3
At TP1	892.1	877.0	857.5	842.4	827.3	812.2
2004 Review*	-	-	-	2.5%	2.5%	2.5%
At TP2	936.3	-	899.7	861.8	846.4	830.9
At TP3	926.5	-	-	882.0	865.9	849.9
2008 Review*	-	-	-	-	-	2.0%
At TP4	936.6	-	-	-	877.6	844.2

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 14 ktCO₂ were ring-fenced
- Allowances equivalent to 17 ktCO₂ were purchased

Overall there was a net purchase of 4 ktCO₂, equivalent to a sector target change (easing) of 9.4 kWh_p/t (Note - figures rounded for presentation).

Other adjustments

N/A

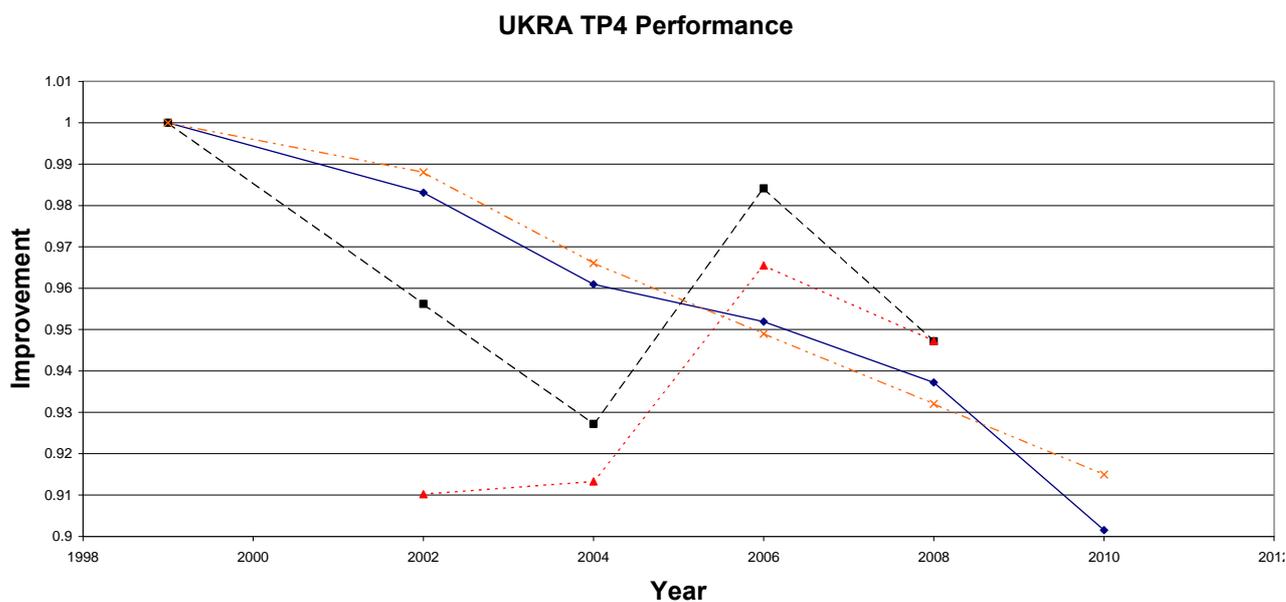
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 887.0 kWh/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁴⁵ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)	Energy (kWh _p)	Production (t)	SEC (kWh _p /t)
TP1	1,503,914,025	1,685,799	892.1	1,374,020,047	1,610,790	853.0
TP2	1,465,880,543	1,565,615	936.3	1,531,215,542	1,763,859	868.1
TP3	1,475,487,877	1,592,466	926.5	1,723,555,106	1,890,191	911.8
TP4	1,355,800,873	1,447,568	936.6	1,442,220,575	1,626,068	886.9
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 886.9 kWh/t is below the CCA adjusted target of 887.0 kWh/t and, therefore, the sector met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	1.7%		4.4%			
TP2	3.9%		7.3%			
TP3	4.8%		1.6%			
TP4	6.3%		5.3%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁴⁵ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- -▲- - Target after adjustments
- -×- - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.2	-0.6
TP2	-0.4	-28
TP3	-0.1	-7
TP4	-0.3	-18

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO ₂ compared with Equivalent Baseline		
	Energy (PJ)	CO ₂ (kilotonnes)	Production (%)
TP1	-0.5	-14	-4%
TP2	0.2	15	13%
TP3	0.9	59	19%
TP4	0.3	20	12%

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

**RUBBER TYRE MANUFACTURING
(BRITISH TYRE MANUFACTURERS ASSOCIATION - BTMA)**

Scope and membership of the umbrella agreement

This agreement is for the manufacture of new tyres and the associated tyre compound. The companies are represented by the British Tyre Manufacturers Association.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	6,775	6,475	6,363	6,252	6,136	5,993
At TP1	7,180	6,887	6,756	6,651	6,525	6,400
2004 Review*	-	-	-	12.6%	12.6%	12.6%
At TP2	7,245	-	6,214	5,865	5,754	5,644
At TP3	7,425	-	-	5,453	5,311	5,205
2008 Review*	-	-	-	-	-	11.5%
At TP4	7,425	-	-	-	5,311	4,607

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 14 ktCO₂ were ring-fenced

Overall, there was a net ring-fencing of 14 ktCO₂, equivalent to a sector target change (tightening) of -303 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

N/A

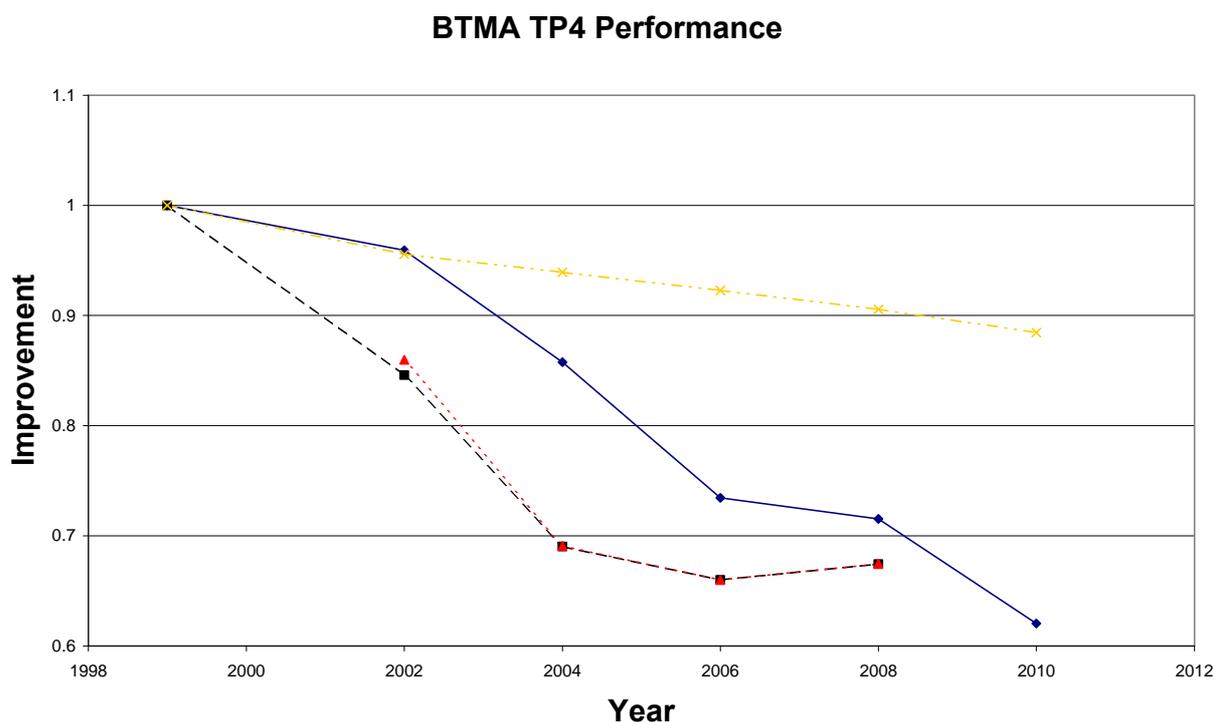
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 5008 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁴⁶ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (t)	SEC (kWh _p /t)	Energy (kWh)	Production (t)	SEC (kWh _p /t)
TP1	2,676,697,323	372,788	7,180	1,756,485,306	289,215	6,073
TP2	2,708,167,613	373,799	7,245	1,661,545,317	332,312	5,004
TP3	2,592,250,121	349,136	7,425	1,422,304,315	290,303	4,899
TP4	2,592,250,121	349,136	7,425	1,320,117,707	263,672	5,007
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 5007 kWh _p /t is below the CCA adjusted target of 5008 kWh _p /t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	4%		15%			
TP2	14%		31%			
TP3	27%		34%			
TP4	28%		33%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁴⁶ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-1.2	-59
TP2	-2.7	-137
TP3	-2.6	-131
TP4	-2.3	-113

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-3.3	-168	-22
TP2	-3.8	-192	-11
TP3	-4.2	-209	-17
TP4	-4.6	-226	-24

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

**SEMICONDUCTOR MANUFACTURE
(NATIONAL MICROELECTRONICS INSTITUTE – NMI)**

Scope and membership of the umbrella agreement

NMI represents various micro and nano-electronics manufacturers in the UK, producing semiconductor products.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed as a ratio of target-year performance to base year performance for a particular level of throughput. The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 2000 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (Ratio)	TP1(2002) (Ratio)	TP2(2004) (Ratio)	TP3(2006) (Ratio)	TP4(2008) (Ratio)	TP5(2010) (Ratio)
Original	1.0	0.7943	0.5089	0.4784	0.4426	0.4108
At TP1	1.0	0.4664	0.2825	0.2524	0.2410	0.2308
2004 Review*	-	-	-	0%	0%	0%
At TP2	1.0	-	0.2868	0.2557	0.2313	0.2208
At TP3	1.0	-	-	0.3236	0.2467	0.2360
2008 Review*	-	-	-	-	-	9.7%
At TP4	1.0	-	-	-	0.2912	0.2548

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 151 ktCO₂ were ring-fenced
- No allowances were purchased

Overall, there was a net ring-fencing of 151 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 0.1642.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments, the final sector target for the TP4 was 0.3064. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (easing) of 0.0152.

Sector performance recorded

The following table shows the sector performance against the equivalent⁴⁷ baseline for all target periods to date.

	Equivalent baseline (2000)			Performance		
	Energy (MWh)	Production (units)	Ratio*	Energy (MWh)	Production (units)	Ratio*
TP1	2,337,092	148,531	1.0	1,984,513	196,337	0.8897
TP2	2,428,764	68,251,161	1.0	2,225,245	169,119,018	0.5394
TP3	3,057,123	70,989,873	1.0	2,371,181	173,930,607	0.2666
TP4	2,823,662	27,926,590	1.0	1,916,695	69,876,001	0.3064

*Ratio of target year to base year for actual target period throughput

Adjustment for overlap with EU ETS

One Target Unit reporting at TP4 is part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. This Target Unit was required to adjust its targets for double counting between these two schemes.

The Target Unit had its target tightened due to double counting. Overall, there was an EU ETS (excess) of 7 ktCO₂, which resulted in an adjustment (tightening) to the sector target of -0.065. This is included within the adjusted target described above.

Commentary

The sector performance of 0.3064 is equal to the CCA adjusted target of 0.3064 and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (2000) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

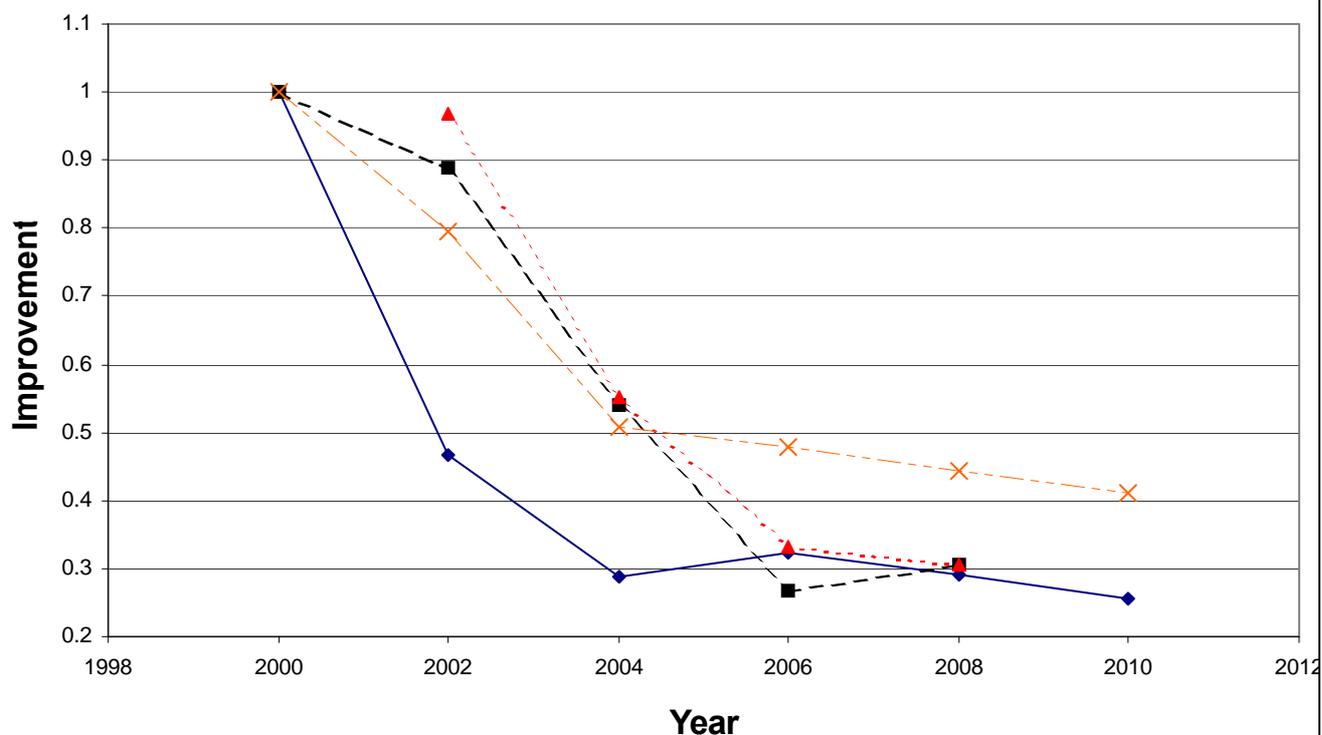
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	53%	11%
TP2	71%	46%
TP3	68%	73%
TP4	71%	69%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

⁴⁷ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

Semiconductors TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2000) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	
TP1	-0.9	-41	
TP2	-6.8	-324	
TP3	-23.5	-1,111	
TP4	-19.6	-917	
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			
Absolute energy/CO₂			
The following table shows how the absolute energy consumption and CO ₂ emissions for the sector have improved compared with the equivalent base year (2000) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)			
Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-1.3	-60	32
TP2	-0.7	-35	148
TP3	-2.5	-117	145
TP4	-3.3	-153	150
NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.			

SLAG GRINDING (THE SLAG GRINDERS SECTOR – SGS)

Scope and membership of the umbrella agreement

This sector has six sites. Five of these take granulated blast furnace slag and grind it to form products for the Construction and Glass Industries. The other site grinds metallurgical slags to produce a range of products, mainly abrasives.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per tonne (kWh_p/t). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/t)	TP1(2002) (kWh_p/t)	TP2(2004) (kWh_p/t)	TP3(2006) (kWh_p/t)	TP4(2008) (kWh_p/t)	TP5(2010) (kWh_p/t)
Original	281	280	273	263	257	252
At TP1	278	278	272	261	255	251
2004 Review*	-	-	-	6.1%	5.0%	4.3%
At TP2	278	-	272	245	243	240
At TP3	278	-	-	245	243	240
2008 Review*	-	-	-	-	-	5.0%
At TP4	278	-	-	-	243	228

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 4 ktCO₂ were ring-fenced

Overall, there was a net ring-fencing of 4 ktCO₂, equivalent to a sector target change (tightening) of –11 kWh_p/t (Note – figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

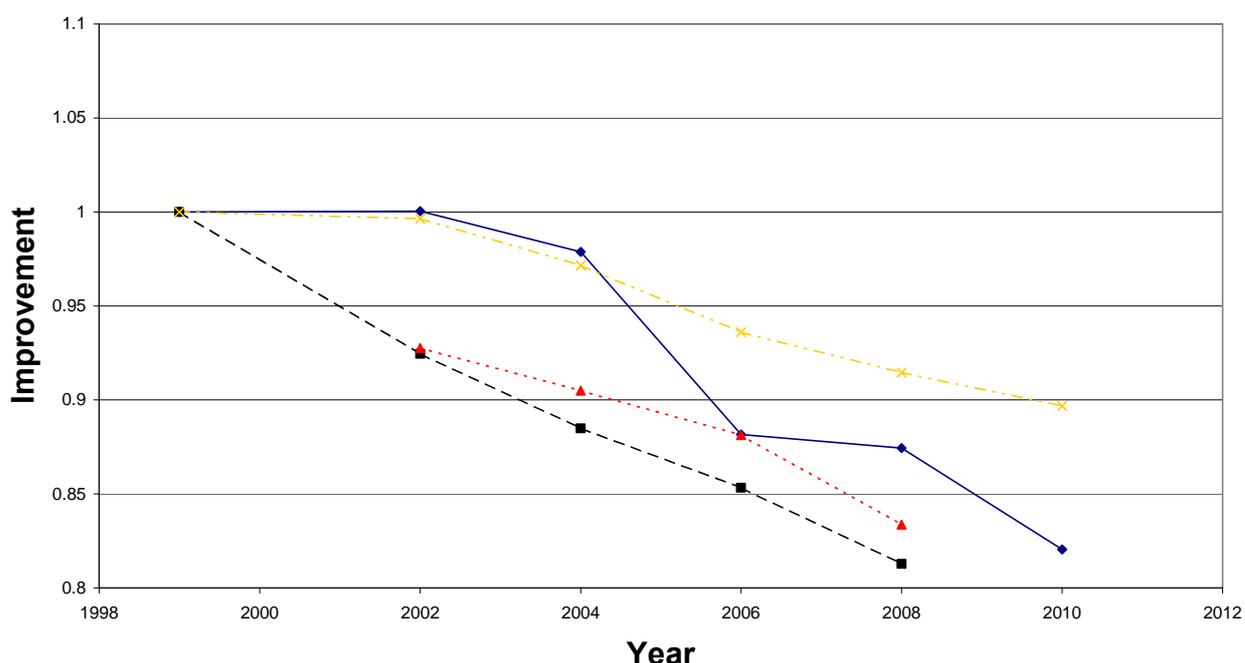
As a consequence of the adjustments described above, the final sector target for the TP4 was 232 kWh_p/t.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁴⁸ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (tonnes)	SEC (kWh _p /t)	Energy (kWh)	Production (tonnes)	SEC (kWh _p /t)
TP1	458,166,678	1,648,899	278	438,161,040	1,702,775	257
TP2	458,166,678	1,648,899	278	506,949,189	2,058,949	246
TP3	458,166,678	1,648,899	278	515,761,454	2,174,309	237
TP4	458,166,678	1,648,899	278	450,991,199	1,996,952	226
Adjustment for overlap with EU ETS						
No facilities reporting at TP4 are part of EU ETS and Climate Change Agreements, so no adjustment is required.						
Commentary						
The sector performance of 226 kWh _p /t is below the CCA adjusted target of 232 kWh _p /t and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base-year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	0.0%		7.6%			
TP2	2.1%		12%			
TP3	12%		15%			
TP4	13%		19%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes. The 0% for TP1 is a consequence of corrections and a new entrant – the individual targets are no less demanding.						

⁴⁸ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

SGS TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base-year (1999) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.1	-6
TP2	-0.2	-12
TP3	-0.3	-16
TP4	-0.4	-18

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base-year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.1	-4	3
TP2	0.2	9	25
TP3	0.2	10	32
TP4	-0.03	-1	21

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

SPIRITS (THE SPIRITS ENERGY EFFICIENCY COMPANY - SEEC)

Scope and membership of the umbrella agreement

SEEC is jointly operated by the Scotch Whisky Association and the Gin and Vodka Association. The SEEC agreement covers the vast majority of UK spirit drinks production of around 450 million litres of pure alcohol (lpa) per year.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per litre of pure alcohol (kWh_p/lpa). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 base year for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p /lpa)	TP1(2002) (kWh _p /lpa)	TP2(2004) (kWh _p /lpa)	TP3(2006) (kWh _p /lpa)	TP4(2008) (kWh _p /lpa)	TP5(2010) (kWh _p /lpa)
Original	7.72	7.70	7.63	7.50	7.44	7.37
At TP1	7.74	7.70	7.63	7.50	7.44	7.37
2004 Review*	-	-	-	1.0%	1.0%	2.0%
At TP2	7.74	-	7.63	7.43	7.37	7.23
At TP3	7.70	-	-	7.36	7.24	7.10
2008 Review*	-	-	-	-	-	8.8%
At TP4	7.64	-	-	-	7.24	6.48

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 80 ktCO₂ were ring-fenced
- Allowances equivalent to 8 ktCO₂ were surrendered

Overall, there was a net ring-fencing of 72 ktCO₂ (Note – figures rounded for presentation).

Other adjustments

A double counting adjustment was made (see details below).

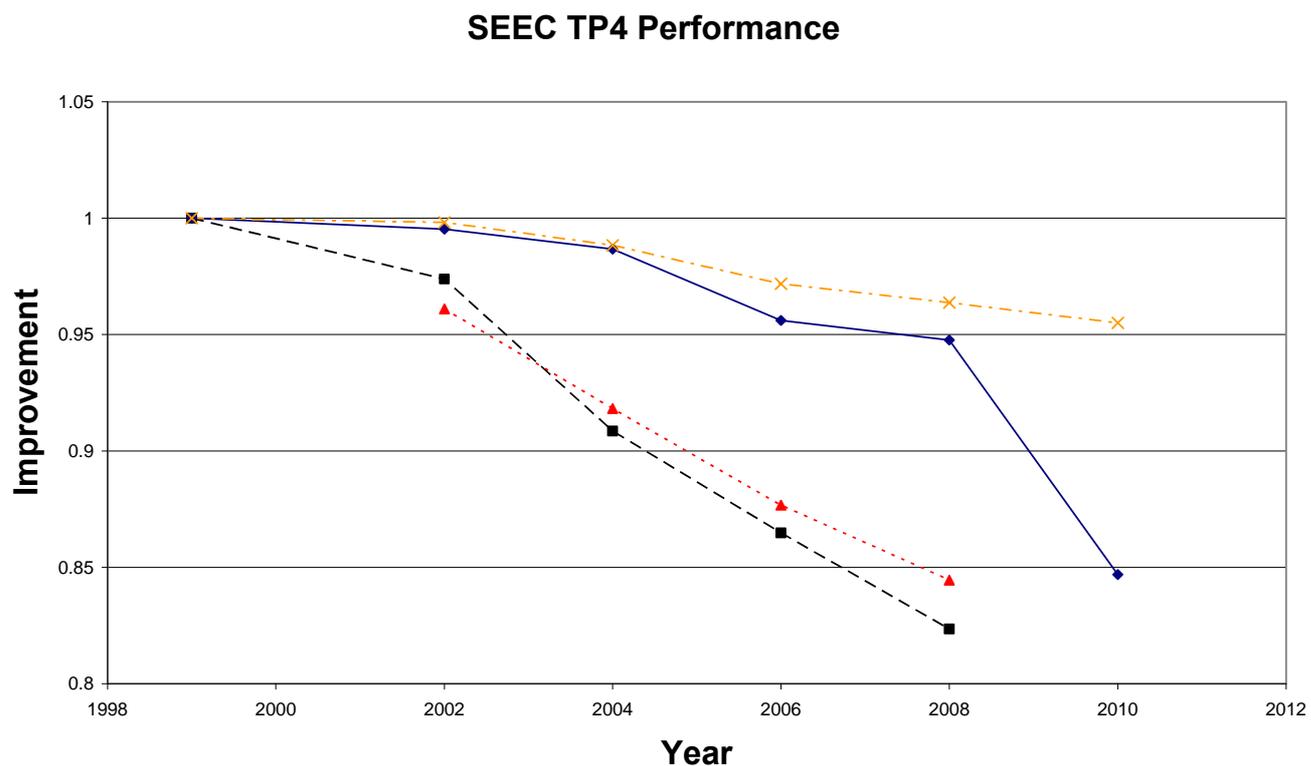
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 6.45 kWh_p/lpa. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of –0.79 kWh_p/lpa.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁴⁹ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (lpa)	SEC (kWh _p /lpa)	Energy (kWh)	Production (lpa)	SEC (kWh _p /lpa)
TP1*	3,427,811,485	443,136,231	7.74	3,199,898,534	424,758,520	7.53
TP2*	3,427,811,485	443,136,231	7.74	2,983,994,186	424,618,313	7.03
TP3	3,373,670,067	438,053,240	7.70	3,047,088,787	457,536,956	6.66
TP4	3,469,029,350	453,872,046	7.64	3,488,330,120	554,206,416	6.29
*NOTE: Baseline data was not adjusted for entrants or exits at TP2.						
Adjustment for overlap with EU ETS						
Two Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These facilities were required to adjust their targets for double counting between these two schemes.						
One Target Unit had its target tightened due to double counting. One Target Unit voluntarily retired all of its surplus EU ETS allowances and so an adjustment to its CCA target was not required. Overall, there was an EU ETS excess of 14 kt CO ₂ , which resulted in an adjustment (tightening) to the CCA sector target of -0.13 kWh/lpa. This is included within the adjusted target described above.						
Commentary						
The sector performance of 6.29 kWh _p /lpa is below the CCA adjusted target of 6.45 kWh _p /lpa, and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	0.5%		2.6%			
TP2	1.3%		9.2%			
TP3	4.4%		13.5%			
TP4	5.2%		17.7%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁴⁹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-0.3	-17
TP2	-1.1	-59
TP3	-1.7	-93
TP4	-2.7	-147

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂
The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.8	-45	-4
TP2	-1.6	-94	-4
TP3	-1.2	-64	4
TP4	0.07	3.8	22

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

STEEL (UK STEEL – UKSA)

Scope and membership of the umbrella agreement

The sector consists of five steel-making companies and a larger number of downstream companies. The UK Steel Association is the sector body that represents about 98% of the sector by energy use. The agreements are managed through UK Steel (Environmental) Ltd.

This sector has Target Units with installations in EU ETS. The sector has provided information to show performance in the presence and absence of adjustments applied due to EU ETS.

Targets

The targets for this sector are expressed in primary petajoules (PJ). The sector agreement is an absolute energy agreement, though some facilities have a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1997 baseline for this sector as originally agreed and at each target period (TP) to date. The TP1 target was adjusted at the 2002 evaluation, but the forward sector targets were not reset at that time. This was because the low output in 2002 was anomalous and there was significant restructuring planned in the industry. The TP2 target was established in 2004 using the latest estimates of predicted throughputs and adjusted in 2005 using actual throughputs where required.

	Baseline (PJ)	TP1(2002) (PJ)	TP2(2004) (PJ)	TP3(2006) (PJ)	TP4(2008) (PJ)	TP5(2010) (PJ)
Original	407.6	388.3	376.6	368.8	365	360.8
At TP1	407.6	304.3	-	-	-	-
2004 Review*	-	-	-	3.25%	1.28%	0.22%
At TP2	406.9	-	326.5	365.9	370	370
At TP3	401.8	-	-	325.8	370.3	370.3
2008 Review*	-	-	-	-	-	6.2%
At TP4	402.0	-	-	-	301.5	339

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Over-performance equivalent to 590 ktCO₂ would have been converted to allowances or ring-fenced. The actual position was affected by the adjustment for overlap with EU ETS (see below).
- Allowances equivalent to 10 ktCO₂ were purchased

Overall, there would have been a net over-performance of 581 ktCO₂, equivalent to a sector target change (tightening) of –7.6 PJ. (Note – figures rounded for presentation).

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 293.9 PJ.

Sector performance recorded

The following table shows the sector performance against the equivalent⁵⁰ baseline for all target periods to date.

	Equivalent baseline (1997)			Reference Production (t)	Performance		
	Energy (PJ)	Production (t)	SEC		Energy (PJ)	Production (t)	SEC
TP1	408	21,949,945	N/A	19,971,750	281	14,483,574	N/A
TP2	407	21,148,964	N/A	18,340,025	308	17,024,282	N/A
TP3	401.8	21,325,820	N/A	19,252,173	307.6	17,142,162	N/A
TP4	402	21,418,175	N/A	21,080,518	293.6	16,655,055	N/A

Adjustment for overlap with EU ETS

Three Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

One Target Unit had its target eased due to double counting. The remaining two Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required. Overall, there was an EU ETS deficit of 5 ktCO₂, which resulted in an additional change (easing) to the CCA sector target of 0.06 PJ. This adjustment is not included in the final adjusted CCA sector target described above.

Commentary

The sector performance of 293.6 PJ is below the CCA adjusted target of 293.9 PJ and, therefore, the sector has met its target. All the facilities have been recertified as a consequence of the sector meeting its target.

The adjustments for overlap with EU ETS eased the CCA target. However, the Target Unit subject to the double counting adjustment increased its ringfencing of allowances and so the final adjusted target, including EU ETS adjustments, was also 293.9PJ. The actual net trading was the ringfencing of 585 ktCO₂ of allowances.

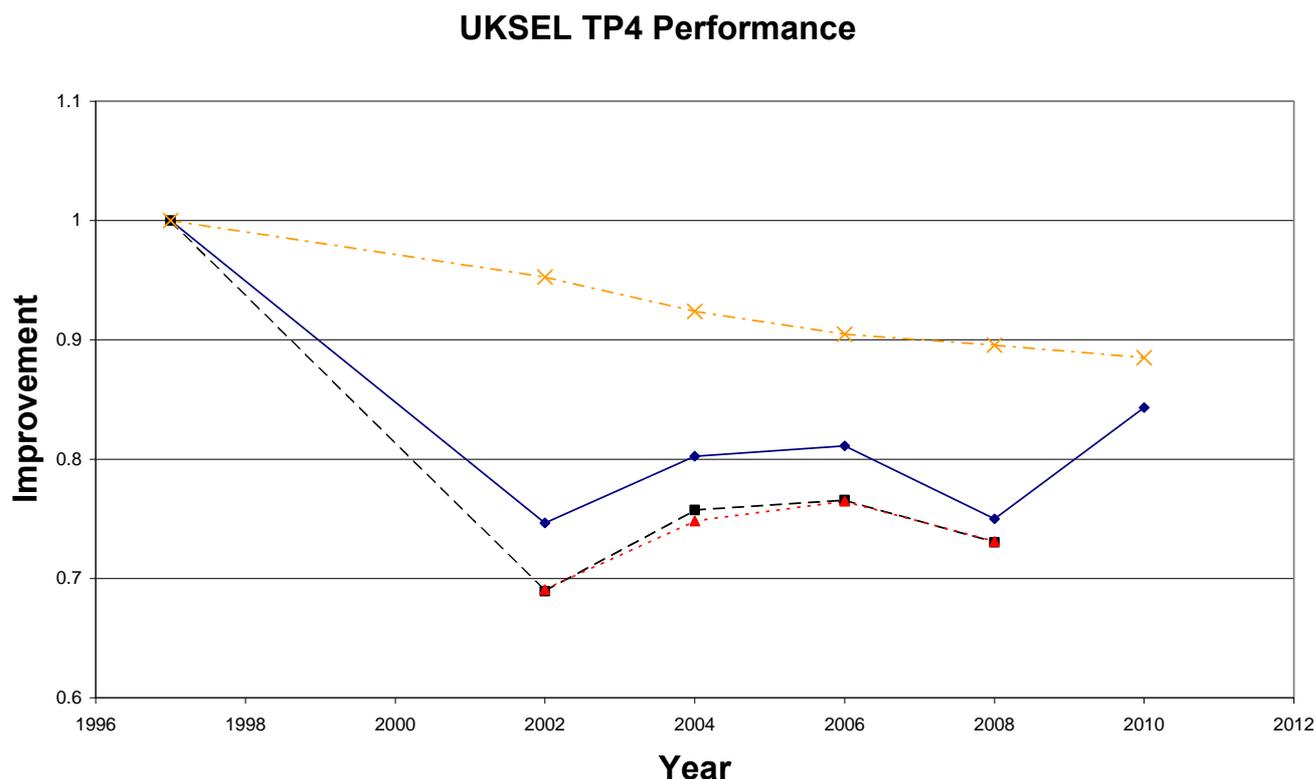
The following table shows how the sector has improved relative to the equivalent base year (1997) position at each target period.
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

⁵⁰ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Improvement compared with Equivalent Baseline at each Target Period		
	Target Improvement	Actual Improvement
TP1	25%	31%
TP2	20%	24%
TP3	19%	23%
TP4	25%	27%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above. For TP4 the target includes the adjustment for falling output, whereas the TP5 target is shown for a higher level of predicted throughput in 2010.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO₂ emissions for the sector have changed compared with the equivalent base year position.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1997) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Baselines			
	Energy (PJ)	CO₂ (kilotonnes)	Change in reference production (%)	Change in equivalent production (%)
TP1	-126.6	-9,400	-27	-34
TP2	-98.8	-7,550	-7	-20
TP3	-94.2	-7,277	-11	-20
TP4	-108.4	-8,293	-21	-22

NOTE: The sector reference production is the total anticipated throughput for the agreed targets. The sector equivalent production is the total throughput at the respective base years of the participants. These throughputs may change at each target period as the sector population changes, so care should be taken in comparing the performance at different target periods. Both sets of figures are quoted for consistency with previous milestones, where reference production was quoted.

SUPERMARKETS (FOOD & DRINK FEDERATION SUPERMARKETS - FDFS)

Scope and membership of the umbrella agreement

The Supermarkets agreement, under the auspices of the Food & Drink Federation, covers in-store bakeries and other, relatively minor, food-processing activities. Stores including Sainsbury, Safeway/Morrison and Tesco are currently participating in the agreement.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh_p. The sector agreement is an absolute energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2001 baseline for this sector as originally agreed and at each target period (TP) to date. Note that for TP1 only, because the target period was shorter than the full 12 months of the other four target periods, there is a separate and lower pro-rata baseline figure.

	Baseline (kWh _p)	TP1(2002) (kWh _p)	TP2(2004) (kWh _p)	TP3(2006) (kWh _p)	TP4(2008) (kWh _p)	TP5(2010) (kWh _p)
Original	306,998,030	304,228,156				
	799,351,145		773,935,798	762,586,016	747,879,965	733,173,913
At TP1	306,998,030	288,957,043				
	799,351,145		730,470,310	719,738,653	705,820,677	691,902,700
2004 Review*	-	-	-	4%	4%	6%
At TP2	661,559,280	-	640,383,206	605,716,264	593,964,007	570,082,338
At TP3	290,559,601**	-	-	265,523,967	311,845,765**	299,198,300**
2008 Review*	-	-	-	-	-	4%
At TP4	335,317,223	-	-	-	263,731,733	275,568,134

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

**There was a major decrease in the target unit population during TP3. The baseline and TP4 and TP5 targets were modified accordingly.

Additional adjustments to the TP4 sector target

Carbon trading

- No allowances were ring-fenced
- Allowances equivalent to 2 ktCO₂ were purchased

Overall there was a net purchase of 2 ktCO₂, equivalent to a sector target change (easing) of 13,955,449 (Note - figures rounded for presentation).

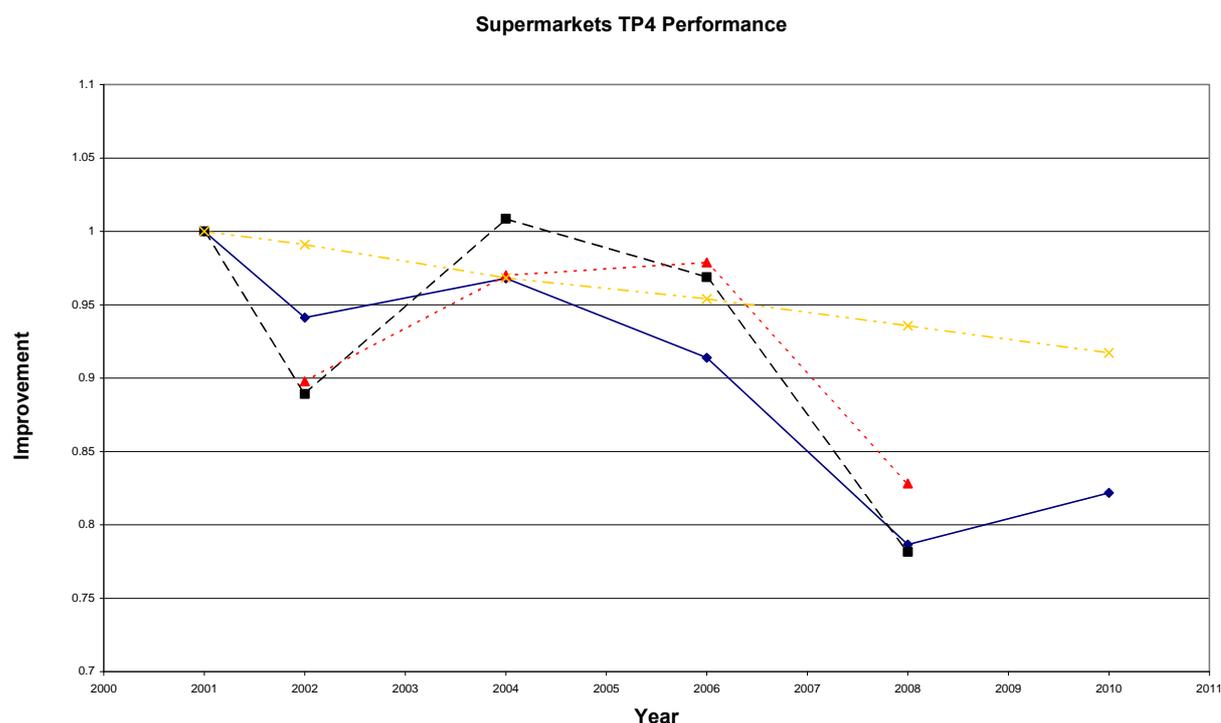
Other adjustments

No other adjustments were made.

<p>Final adjusted CCA sector target for the TP4 As a consequence of the adjustments described above, the final sector target for the TP4 was 277,687,181 kWh_p.</p>		
<p>Sector performance recorded The following table shows the sector performance against the equivalent⁵¹ baseline for all target periods to date.</p>		
	Equivalent baseline (2001) Energy (kWh)	Performance Energy (kWh)
TP1	306,998,030	272,986,625
TP2	661,559,280	667,259,766
TP3	290,559,601	281,479,843
TP4	335,317,223	262,064,743
<p>Adjustment for overlap with EU ETS No target units reporting at TP4 are part of EU ETS, so no adjustments were required.</p>		
<p>Commentary The sector performance of 262,064,743 kWh_p is below the CCA adjusted target of 277,687,181 kWh_p and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.</p> <p>The following table shows how the sector has improved relative to the equivalent base year (2001) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).</p>		
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	5.9%	11%
TP2	3.2%	-0.9%
TP3	8.6%	3.1%
TP4	21%	22%
<p>NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.</p>		

⁵¹ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- -▲- - Target after adjustments
- -×- - Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

This sector has an absolute target and so it is not appropriate to calculate how the relative energy consumption and CO₂ emissions for the sector have changed compared with the equivalent base year position.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2001) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Annual change in Absolute Energy and CO₂ compared with Equivalent Baseline	
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-0.3	-15
TP2	0.02	1
TP3	-0.03	-2
TP4	-0.3	-12

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

SURFACE ENGINEERING (SURFACE ENGINEERING ASSOCIATION - SEA)

Scope and membership of the umbrella agreement

SEA represents the metal finishing sector, carrying out processes including electro-plating and anodising. SEA is a subsidiary part of the British Jewellery and Giftware and Finishing Federation, which is the formal signatory to the agreement. This Climate Change Agreement (SEA) represents those facilities covered by IPPC processes.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh at a given level of throughput (kWh_p). The sector agreement is a relative energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to changes in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p)	TP1(2002) (kWh _p)	TP2(2004) (kWh _p)	TP3(2006) (kWh _p)	TP4(2008) (kWh _p)	TP5(2010) (kWh _p)
Original		2,023,331,546	1,985,927,438	1,982,247,644	1,954,811,334	1,928,896,664
At TP1	2,971,679,789	2,890,361,508	2,905,688,604	2,881,610,368	2,833,907,376	2,786,494,745
2004 Review*	-	-	-	10.8%	10.7%	10.8%
At TP2	3,947,262,281	-	3,855,317,182	3,384,412,419	3,318,798,494	3,254,471,944
At TP3	4,147,329,433	-	-	3,683,136,126	3,598,368,478	3,506,510,451
2008 Review*	-	-	-	-	-	4.3%
At TP4	4,199,294,436	-	-	-	3,619,527,486	3,362,311,782

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 51 ktCO₂ were ring-fenced
- Allowances equivalent to 54 ktCO₂ were purchased

Overall there was a net purchase of 3 ktCO₂, equivalent to a sector target change (easing) of 16,753,587 kWh_p (Note - figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 39,047,497 kWh_p.

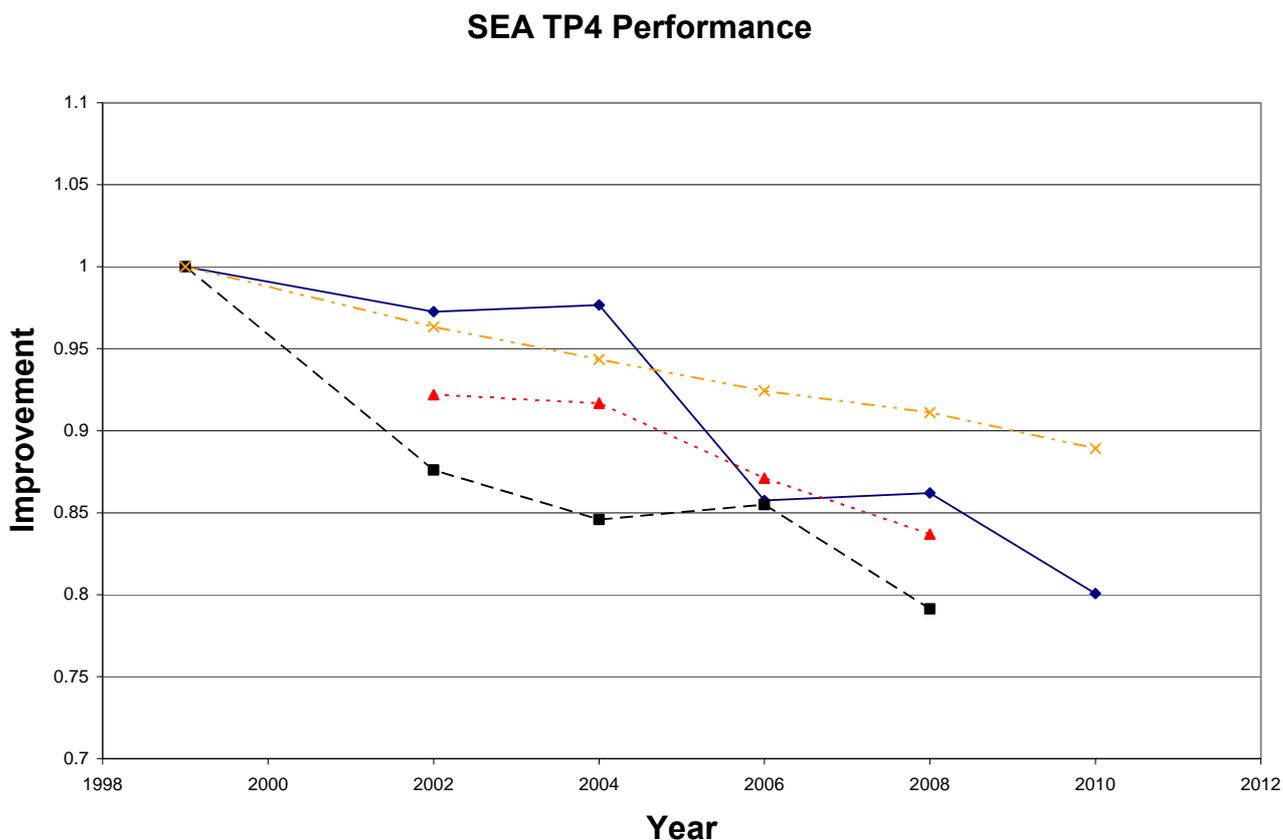
Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 3,667,994,227 kWh_p.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁵² baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh_p)	Production (mixed units)	SEC	Energy (kWh_p)	Production (mixed units)	SEC
TP1	2,971,679,789		N/A	2,828,683,776		N/A
TP2	3,947,262,281		N/A	3,707,304,772		N/A
TP3	4,147,329,433		N/A	3,629,489,042		N/A
TP4	4,199,294,436		N/A	3,468,585,799		N/A
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 3,468,585,799 kWh _p is below the CCA adjusted target of 3,667,994,227 kWh _p and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1		3.0%				12%
TP2		4.6%				15%
TP3		11%				15%
TP4		14%				21%
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁵² Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

Change in annual Relative Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)
TP1	-1.4	-75
TP2	-2.4	-119
TP3	-2.2	-108
TP4	-3.3	-160

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂
The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.5	-29	9%
TP2	-0.9	-42	11%
TP3	-1.9	-91	2%
TP4	-2.6	-128	4%

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

TEXTILES (BRITISH APPAREL AND TEXTILES CONFEDERATION - BATC)

Scope and membership of the umbrella agreement

BATC represents the textile and clothing industry in the UK, carrying out various activities in textile dyeing, finishing and scouring. This Climate Change Agreement (BATC1) represents those facilities covered by IPPC processes.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh (kWh_p) at a given level of throughput. The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p)	TP1(2002) (kWh _p)	TP2(2004) (kWh _p)	TP3(2006) (kWh _p)	TP4(2008) (kWh _p)	TP5(2010) (kWh _p)
Original	3,819,000,000	3,773,360,985	3,705,460,831	3,635,353,875	3,555,113,619	3,474,799,992
At TP1	3,726,083,555	3,693,676,535	3,624,881,861	3,554,357,028	3,471,562,685	3,388,313,526
2004 Review*	-	-	-	3.0%	3.0%	3.0%
At TP2	3,040,420,110	-	2,950,479,118	2,803,061,758	2,735,992,681	2,667,631,254
At TP3	2,318,615,076	-	-	2,136,852,249	2,086,036,365	2,032,298,758
2008 Review*	-	-	-	-	-	9.0%
At TP4	2,031,474,215	-	-	-	1,829,136,515	1,612,102,575

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 40 ktCO₂ were ring-fenced
- No allowances were purchased

Overall, there was a net ring-fencing of 40 ktCO₂ (Note - figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (easing) of 32,870,284 kWh_p.

A double counting adjustment was made (see details below).

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 1,639,215,899 kWh_p. This includes adjustments for EU ETS adjustments (see details below) and is equivalent to a sector target change (tightening) of –189,920,616kWh_p.

Sector performance recorded

The following table shows the sector performance against the equivalent⁵³ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (mixed units)	SEC	Energy (kWh)	Production (mixed units)	SEC
TP1	3,726,083,555	766,435,746	N/A	3,141,386,873	790,518,197	N/A
TP2	3,040,420,110	724,797,294	N/A	2,435,380,254	770,849,107	N/A
TP3	2,318,615,076	563,959,136	N/A	1,750,022,368	700,112,057	N/A
TP4	2,031,474,215	573,308,713	N/A	1,634,614,879	771,739,376	N/A

Adjustment for overlap with EU ETS

One Target Unit reporting at TP4 is part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. This Target Unit was required to adjust its target for double counting between these two schemes.

The Target Unit had its target tightened due to double counting. There was an EU ETS excess of 1 ktCO₂, which resulted in an adjustment (tightening) to the sector target of -6,191,007 kWh_p. This is included within the adjusted target described above.

Commentary

The sector performance of 1,634,614,879 kWh_p is below the CCA adjusted target of 1,639,215,899 kWh_p and, therefore, the sector has met its CCA target. All the facilities reporting have been recertified as the sector target has been met.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was deterioration in performance).

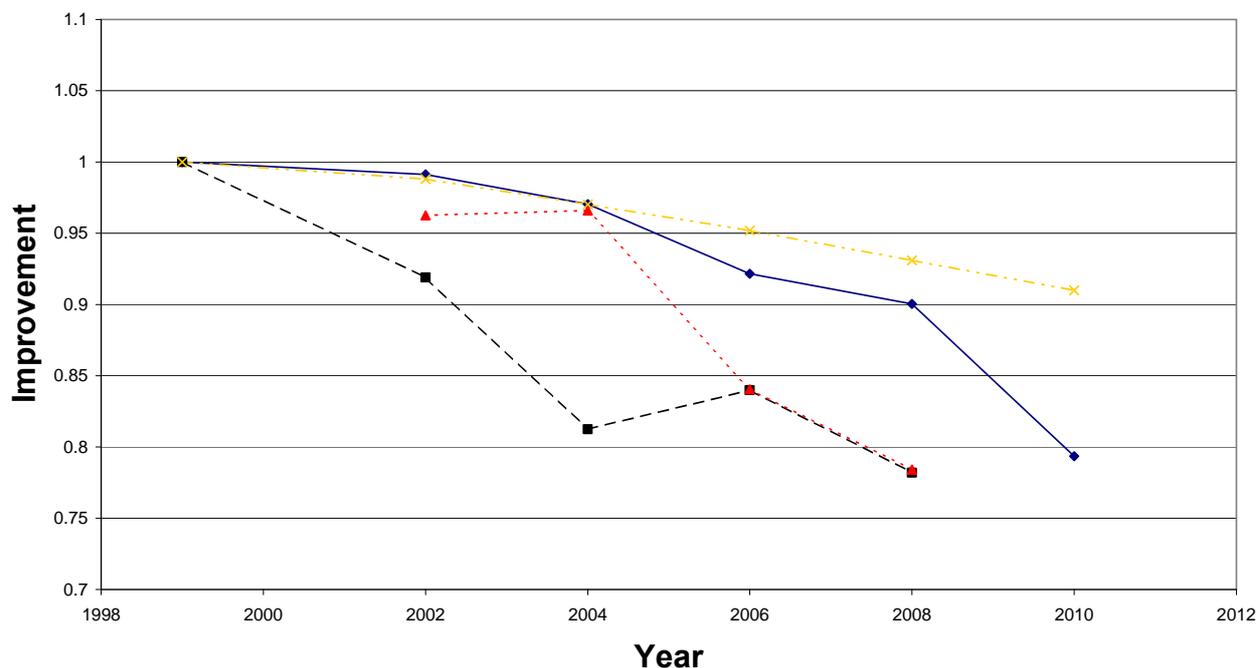
	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	1%	8%
TP2	3%	19%
TP3	8%	16%
TP4	10%	22%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

⁵³ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BATC1 TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲— Target after adjustments
- ×— Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	-0.9	-50
TP2	-2.0	-107
TP3	-1.2	-62
TP4	-1.6	-83

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-2.1	-114	3
TP2	-2.2	-115	6
TP3	-2.1	-106	24
TP4	-1.4	-72	35

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

TEXTILES EI (BRITISH APPAREL AND TEXTILES CONFEDERATION - BATC)

Scope and membership of the umbrella agreement

BATC represents the textile and clothing industry in the UK, carrying out various activities in textile dyeing, finishing and scouring. This Climate Change Agreement (CCA) represents those facilities covered by the Energy Intensity CCA, which reported for the first time at Target Period 3 (TP3).

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are given in primary kWh at a given level of throughput (kWh_p). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 2004 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh _p)	TP1(2002)	TP2(2004)	TP3(2006) (kWh _p)	TP4(2008) (kWh _p)	TP5(2010) (kWh _p)
Original	263,055,416	N/A	N/A	257,794,308	249,902,646	236,749,875
At TP3*	167,075,119	N/A	N/A	163,733,616	158,721,363	150,367,607
2008 Review**	-	-	-	-	-	4.0%
At TP4	857,014,307	-	-	-	816,228,134	730,682,246

* The row 'At TP3' represents the facilities that joined the CCA up to three months before the end of the Target Period. The Original baseline includes some facilities that did not report at TP3.

** The row '2008 Review' shows the percentage change of targets resulting from the review of targets in 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The target for the subsequent target period takes account of this adjustment and of any entrants, exits and corrections subsequent to the review.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 6 ktCO₂ were ring-fenced
- Allowances equivalent to 2 ktCO₂ were purchased

Overall, there was a net ring-fencing of 4 ktCO₂, equivalent to a sector target change (tightening) of -21,680,100 kWh_p (Note – figures rounded for presentation).

Other adjustments

Adjustments were carried out at the sector level, equivalent to a sector target change (tightening) of -33,101,602 kWh_p.

Final adjusted CCA sector target for the TP4

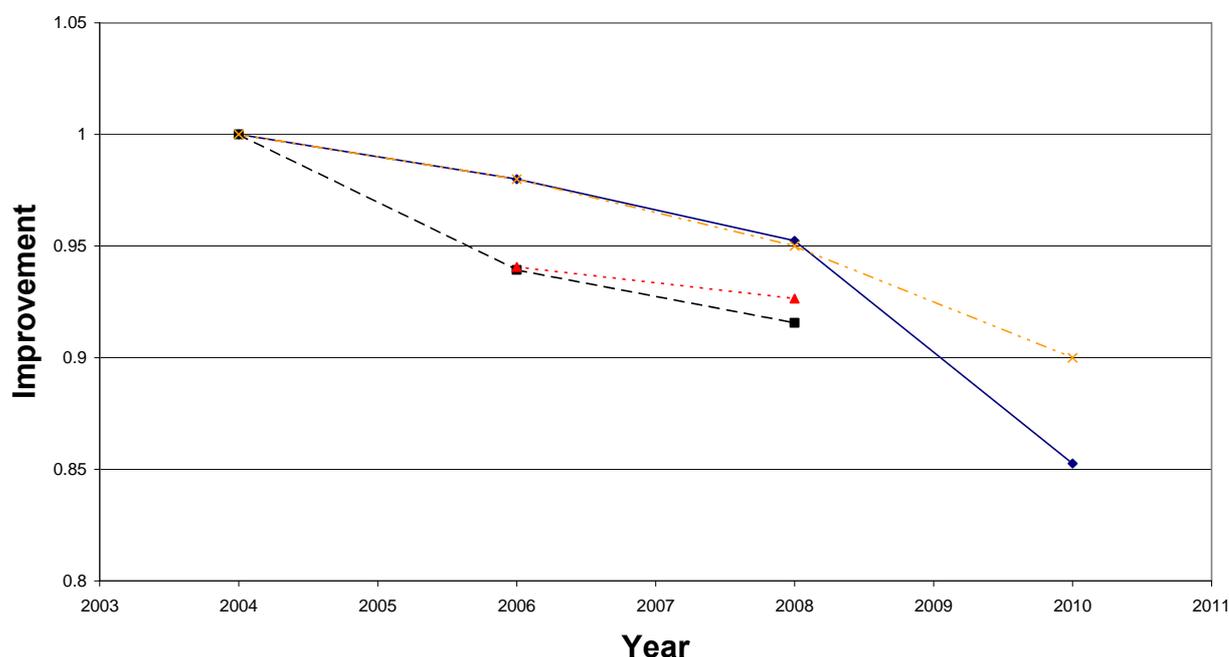
As a consequence of the adjustments described above, the final sector target for the TP4 was 761,450,945 kWh_p.

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁵⁴ baseline for all target periods to date.						
	Equivalent baseline (2004)			Performance		
	Energy (kWh_p)	Production (mixed units)	SEC	Energy (kWh_p)	Production (mixed units)	SEC
TP3	167,075,119	83,156,994	N/A	169,195,683	74,660,202	N/A
TP4	857,014,307	239,953,023	N/A	752,462,270	219,628,860	N/A
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 752,462,270 kWh _p is below the CCA adjusted target of 761,450,945 kWh _p and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (2004) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at Target Period 3						
	Target Improvement		Actual Improvement			
TP3	2.0%		6.1%			
TP4	4.8%		8.4%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁵⁴ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

BATC2 TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for this target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year).

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP3	-0.04	-2
TP4	-0.3	-12

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (2004) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions).

Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline			
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP3	0.01	0.4	-10
TP4	-0.4	-18	-8

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

WALLCOVERING (ASSOCIATION OF WALLCOVERING MANUFACTURERS - AWM)

Scope and membership of the umbrella agreement

Companies in this sector manufacture wallcoverings and related products.

This sector has no Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in kWh. The sector agreement is an absolute (abs) energy agreement. These targets change with time: as the composition of the sector changes, owing to entrants and exits; as a result of corrections to baseline data; and as required due to falls in throughput.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline kWh (abs)	TP1(2002) kWh (abs)	TP2(2004) kWh (abs)	TP3(2006) kWh (abs)	TP4(2008) kWh (abs)	TP5(2010) kWh (abs)
Original	602,755,838	593,353,219	566,783,703	558,013,278	553,424,653	548,564,629
At TP1	783,561,216	698,383,887	673,517,244	662,753,550	656,290,427	649,708,821
2004 Review*	-	-	-	1.48%	1.68%	1.88%
At TP2	453,414,278	-	332,696,272	377,940,712	374,165,055	370,575,659
At TP3	351,924,852	-	-	286,257,481	287,971,912	282,561,852
2008 Review*	-	-	-	-	-	4.0%
At TP4	351,924,852	-	-	-	285,578,152	269,013,159

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 7 ktCO₂ were purchased.

Overall there was a net purchase of 7 ktCO₂, equivalent to a sector target change (easing) of 39,381,411 kWh (Note - figures rounded for presentation).

Other adjustments

N/A

Final adjusted CCA sector target for the TP4

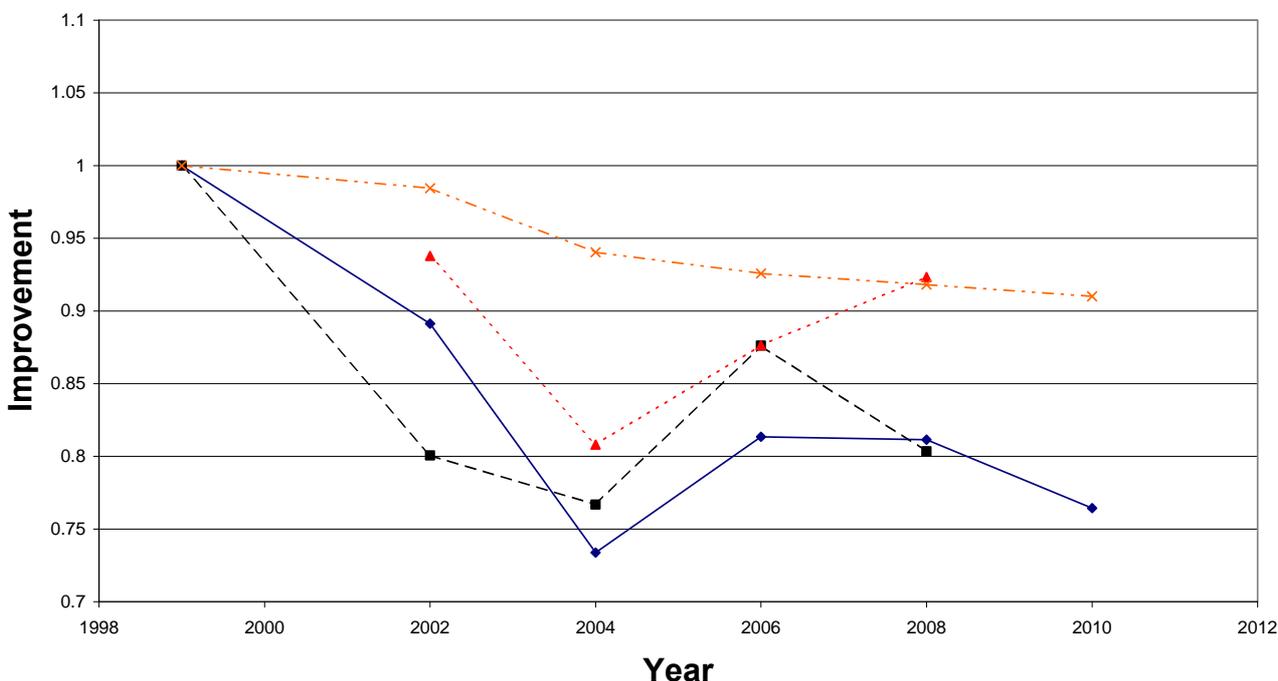
As a consequence of the adjustments described above, the final sector target for TP4 was 324,959,563 kWh (absolute).

Sector performance recorded						
The following table shows the sector performance against the equivalent ⁵⁵ baseline for all target periods to date.						
	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (mixed units)	SEC	Energy (kWh)	Production (mixed units)	SEC
TP1	783,561,216	839,166,599	n/a	627,286,792	797,641,520	n/a
TP2	453,414,278	395,930,194	n/a	347,708,947	405,285,339	n/a
TP3	351,924,852	321,532,107	n/a	308,344,526	390,558,734	n/a
TP4	351,924,852	321,151,420	n/a	282,774,213	376,060,214	n/a
Adjustment for overlap with EU ETS						
No target units reporting at TP4 are part of EU ETS so no adjustments were required.						
Commentary						
The sector performance of 282,774,213 kWh _p is below the CCA adjusted target of 324,959,563 kWh kWh _p and, therefore, the sector has met its target. All the facilities reporting have been recertified as the sector target has been met.						
The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period. (Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).						
Improvement in SEC compared with Equivalent Baseline at each Target Period						
	Target Improvement		Actual Improvement			
TP1	11%		20%			
TP2	27%		23%			
TP3	19%		12%			
TP4	19%		20%			
NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.						

⁵⁵ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year

AWM TP4 Performance



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

This sector is an absolute sector and so it is not appropriate to calculate how the relative energy consumption and CO₂ emissions for the sector have changed compared with the equivalent base year position.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO₂ compared with Equivalent Baseline		
	Energy (PJ)	CO₂ (kilotonnes)	Production (%)
TP1	-0.6	-28	-5
TP2	-0.4	-19	2
TP3	-0.2	-8	21
TP4	-0.2	-12	17

Note: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

**WOOD PANEL MANUFACTURE
(WOOD PANEL INDUSTRIES FEDERATION – WPIF)**

Scope and membership of the umbrella agreement

WPIF represents the manufacturers of wood panels in the UK, including chipboard, oriented strand board and MDF. A separate company, WPIF Environmental Ltd, is established to act as the 'sector association'. For the purpose of the CCL agreement, WPIF is the contracted manager to WPIF Environmental Ltd.

This sector has Target Units that have installations in EU ETS.

Targets

The targets for this sector are expressed in primary kWh per cubic metre (kWh_p/m^3). The sector agreement is a relative energy agreement. These targets change with time as the composition of the sector changes, owing to entrants and exits, and as a result of corrections to baseline data.

The following table shows the targets and equivalent 1999 baseline for this sector as originally agreed and at each target period (TP) to date.

	Baseline (kWh_p/m^3)	TP1(2002) (kWh_p/m^3)	TP2(2004) (kWh_p/m^3)	TP3(2006) (kWh_p/m^3)	TP4(2008) (kWh_p/m^3)	TP5(2010) (kWh_p/m^3)
Original	952	940	919	899	890	882
At TP1	972	959	938	917	909	900
2004 Review*	-	-	-	1.87%	3.92%	6.02%
At TP2	972	-	938	981	953	925
At TP3	1,055	-	-	981	953	925
2008 Review*	-	-	-	-	-	11.9%
At TP4	1,055	-	-	-	953	815

* The rows '2004 Review' and '2008 Review' show the percentage change of targets resulting from the review of targets in 2004/05 and 2008. Note that a positive percentage value means a tightening of targets and a negative value means an easing of targets. The targets for subsequent target periods take account of these adjustments and of any entrants, exits and corrections subsequent to the reviews.

Additional adjustments to the TP4 sector target

Carbon trading

- Allowances equivalent to 113 ktCO₂ were ring-fenced
- Allowances equivalent to 5 ktCO₂ were purchased

Overall, there was a net ring-fencing of 108 ktCO₂, equivalent to a sector target change (tightening) of -184 (Note – figures rounded for presentation).

Other adjustments

No other adjustments were made.

Final adjusted CCA sector target for the TP4

As a consequence of the adjustments described above, the final sector target for the TP4 was 769 kWh_p/m^3 .

Sector performance recorded

The following table shows the sector performance against the equivalent⁵⁶ baseline for all target periods to date.

	Equivalent baseline (1999)			Performance		
	Energy (kWh)	Production (m ³)	SEC (kWh _p /m ³)	Energy (kWh)	Production (m ³)	SEC (kWh _p /m ³)
TP1	3,049,768,069	3,138,392	972	3,170,074,284	3,230,814	981
TP2	3,049,768,069	3,138,392	972	3,130,272,007	3,609,403	867
TP3	3,550,979,100	3,366,147	1,055	3,008,661,304	3,693,844	815
TP4	3,550,979,100	3,366,147	1,055	2,550,761,208	3,257,582	783

Adjustment for overlap with EU ETS

Four Target Units reporting at TP4 are part of EU ETS and Climate Change Agreements and did not hold a temporary exclusion certificate. These Target Units were required to adjust their targets for double counting between these two schemes.

All four Target Units voluntarily retired all of their surplus EU ETS allowances and so an adjustment to their CCA targets was not required.

Commentary

The sector performance of 783 kWh_p/m³ is above the CCA adjusted target of 769 kWh_p/m³ and, therefore, the sector has not met its target. However, all facilities reporting have been recertified, either because they have met their individual targets outright, or through trading.

The following table shows how the sector has improved relative to the equivalent base year (1999) position at each target period.

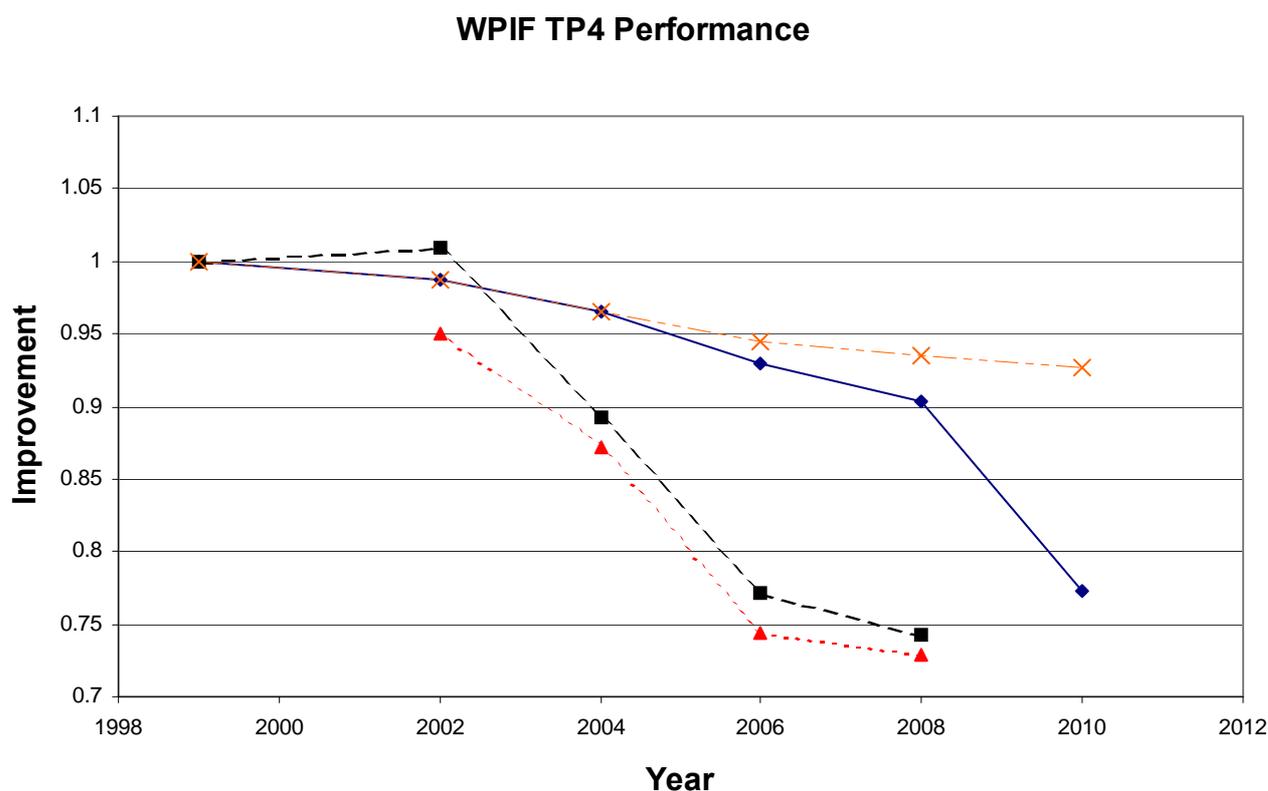
(Positive figures imply the target became more demanding or the achievement was greater. Negative figures imply the target became easier or there was a deterioration in performance).

	Improvement in SEC compared with Equivalent Baseline at each Target Period	
	Target Improvement	Actual Improvement
TP1	1.3%	-1.0%
TP2	3.5%	11%
TP3	7.0%	23%
TP4	10%	26%

NOTE: These figures are not directly comparable since the equivalent baseline changes at each target period as the sector population changes.

⁵⁶ Please see Annex 1 of the main report for an explanation of the format and terminology of this summary.

Graph of performance and current targets relative to the base year



Key

- ◆— Target profile
- Actual performance
- ▲--- Target after adjustments
- ×--- Original targets

The 'target profile' reflects the data as detailed in the **Targets** section above.

The 'target after adjustments' reflects the **Final adjusted CCA sector target** for the relevant target period.

Impact of the sector performance

Relative energy/CO₂

The following table shows how the relative energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position. For each target period, it shows the change in energy and CO₂ assuming throughput at the base year had been that for the relevant target period. (Negative values imply consumption/emissions in the target period is less than the equivalent base year.)

	Change in annual Relative Energy and CO ₂ compared with Equivalent Baseline	
	Energy (PJ)	CO ₂ (kilotonnes)
TP1	0.1	6
TP2	-1.4	-68
TP3	-3.2	-160
TP4	-3.2	-159

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.

Absolute energy/CO₂

The following table shows how the absolute energy consumption and CO₂ emissions for the sector have improved compared with the equivalent base year (1999) position for each target period. It also shows the percentage change in throughput. (Negative values imply a fall in consumption/emissions.)

	Change in annual Absolute Energy and CO ₂ compared with Equivalent Baseline		
	Energy (PJ)	CO ₂ (kilotonnes)	Production (%)
TP1	0.4	22	3
TP2	0.3	15	15
TP3	-2.0	-98	10
TP4	-3.6	-180	-3

NOTE: The equivalent baseline at each target period may change as the sector population changes, so care should be taken in comparing the performance at different target periods.