

PUBLIC REPORT TEMPLATE 2012

Part 1 - Corporation Details

Controlling Corporation

Insert the name of the Controlling Corporation exactly as it is registered with the EEO Program.

PEPSCA Pty Ltd

Table 1.1 - Major Changes to Corporate Group Structure or Operations

Table 1.1 – Major Changes to Corporate Group Structure or Operations in the last 12 months

SCA Hygiene Australasia continued to operate in the same way in this reporting period as it had previously.

There have been no significant changes to the operations or to the Corporate Group structure since the FY 2011/2012 reporting period.

Declaration

Declaration of accuracy and compliance

The information included in this report has been reviewed and noted by the board of directors and is to the best of my knowledge, correct and in accordance with the *Energy Efficiency Opportunities Act 2006* and *Energy Efficiency Opportunities Regulations 2006*.

Peter Diplaris
President, SCA Hygiene Australasia



Insert Name and Title of Signatory here
(Chair of the Board, CEO, or Managing Director)

Date 13 December 2013

Part 2 - Assessment Outcomes

Table 2.1 – Assessment Details

It is compulsory to complete a separate table for each entity* that has been assessed

Name of entity	SCA Hygiene Australasia – Box Hill site		
Total energy use in the last financial year		1,455,295	GJ
Total percentage of energy use assessed when assessments were undertaken		96	%

Description of the way in which the entity carried out its assessment

As part of SCA's ongoing commitment to reduce the energy intensity of its products and in compliance of its obligations under the EEO Act an external consultant, NDEVR, was engaged in early 2013 to conduct an energy assessment/audit at the Box Hill site. Energy usage at the Box Hill site constitutes more than 95% of the total usage for the Australian sites. The site assessment was aimed to:

- Map the energy and mass flows through SCA's Box Hill Facility,
- Identify ideas for energy savings,
- Assess the ideas for operational, business and technical viability,
- Evaluate short-listed ideas in the overall business context to a suitable level of accuracy to meet EEO requirements, and
- Make recommendations to SCA based on the outcome of the evaluation process.

Analysis of historical billing data from 1st January 2011 to December 2012 for both electricity and natural gas was undertaken as part of benchmarking of energy usage and for future comparison. Data from sub-meters and estimations, where metered data is not available, were used to come up with a breakdown of energy consumption for different parts of the plant. Based on the analysis of energy usage and corresponding production data over the two year period a series of Energy-Mass Balance were developed for the following:

- Overall energy mass balance,
- PM3 energy mass balance,
- PM4 energy mass balance, and
- Converting line energy mass balance

To help in generating the energy efficiency ideas NDEVR conducted a review of previously identified ideas during the 2007 ESAVE assessment but not implemented, multiple site visits and review of operations, and workshop sessions with operational staff from the paper machines, converting lines and general engineering and maintenance. A total of 30 ideas were identified by NDEVR and SCA judged 16 of these as operationally feasible. Of

these, 10 were progressed into opportunities on the basis of ease of implementation, operational attractiveness, accuracy of the final assessment and potential future obsolescence.

Based on the responses from key SCA operational staff to questionnaires prepared by NDEV these opportunities were categorised as follows:

- Implemented,
- Implementation Commenced,
- To be Implemented, and
- Under Investigation

Only opportunities with payback period of up to 5 years are included in this report which means the opportunities were reduced to 9 from the original 10 recommended by Ndevr.

Analysis and recommendations for each of the 9 opportunities assessed are contained in Appendix A.

This report is based on the 2nd cycle Assessment Plan commencing from July 2012.

* Entity is group member, business unit, or key activity. Please note that, for individual sites that use more than 0.5PJ of energy, all energy use must be assessed (less a small proportion for non integral energy use).

Table 2.2 - Energy efficiency opportunities identified in the assessment

It is compulsory to complete a separate table for each entity that has been assessed

Status of opportunities identified to an accuracy of better than or equal to ±30%	Total Number of opportunities	Estimated energy savings per annum by payback period (GJ)						Total estimated energy savings per annum (GJ)
		0 – 2 years		2 – 4 years		> 4 years		
		No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
Business Response	Implemented			1	2,313	1	2,069	4,382
	Implementation Commenced	1	4,300					4,300
	To be Implemented	1				1	3,855	3,855
	Under Investigation	5	54,249	2	23,609	1	29,462	107,320
Outcomes of assessment	Total Identified	9	58,549	3	25,922	3	35,386	119,857

Please note that Corporate Groups **are not required** to report opportunities with a payback greater than 4 years. Reporting this data is voluntary.

Table 2.3 - Details of significant opportunities identified in the assessment

Corporate Groups are required to provide at least 3 examples of significant opportunities for improving the energy efficiency of the group that have been identified in assessments.

Description of Opportunity No 1	Voluntary Information
Compressor Upgrade Phase 1	Compressor
This opportunity involved the replacement of the existing ZR4 compressor and one of the ZR5 compressors with newer more efficient units. This has already been completed with future works currently under consideration. The original compressor units are ageing and the project replacement yields several benefits including improved reliability and energy efficiency. The new replacement units incorporate VSD drives and are of a more efficient design resulting in direct electricity savings. Waste heat from the compressor unit is also used for space heating in one instance – this was not quantified as a ‘saving’ however as there was no pre-existing space heating in the area previously.	Business Response
	Energy saved (GJ)
	Greenhouse gas abated (CO2-e)
	\$\$ saved
	Payback period

Description of Opportunity No 2	Voluntary Information
TAD Burner Efficiency/Optimisation PM4 TAD1 & TAD2	Air Dryer
A macro-level reconciliation of the Through-Air Dryer (TAD) units on PM4 has revealed relatively low burner efficiency rates. Given the high natural gas usage rate of the TAD, even a small improvement in the efficiency of the two TAD units has potential for significant savings	Business Response
	Energy saved (GJ)
	Greenhouse gas abated (CO2-e)
	\$\$ saved
	Payback period

Description of Opportunity No 3	Voluntary Information
PM3 and PM4 Yankee Hood Optimisation	Yankee Hood and Heat Exchanger
This opportunity involves a significant capital investment by SCA but there is potential for a quick payback of less than two years. The key risk in this opportunity is that payback is heavily reliant on value added from increased production from the paper machines. This assumption maybe flawed as there may not be a market for increased production and/or there may exist other bottlenecks in the system restricting output.	Business Response
	Energy saved (GJ)
	Greenhouse gas abated (CO2-e)
	\$\$ saved
	Payback period

Please note that the “Description of the Opportunity” above should include information on the specific nature and type of opportunity as well as information on the type of equipment and/or process involved.

Part 3 – Transition to Second Cycle

This table should only be completed by 2005-06 trigger-year corporations transitioning to the second cycle.

In December 2011 many corporations reported energy efficiency opportunities that were still under investigation as at 30 June 2011. This report should advise what your business response to these opportunities has been – implemented or not to be implemented. If you intend to further investigate these opportunities, they should be reported in the future Public Reports as opportunities identified in the second cycle.

Status of opportunities identified to an accuracy of better than or equal to ±30%	Total Number of opportunities	Estimated energy savings per annum by payback period (GJ)						Total estimated energy savings per annum (GJ)
		0 – 2 years		2 – 4 years		> 4 years		
		No of Opps	GJ	No of Opps	GJ	No of Opps	GJ	
As reported in December 2011								
Under Investigation								
Business Response as at 30 June 2012								
Implemented								
Not to be Implemented								
To be evaluated/reported in the second cycle	7	1	760	2	13,080	4	10,010	23,850

The seven opportunities above that were identified in the first cycle and assessed to ± 30% were rolled over into the second cycle. They were incorporated in the eight opportunities in Table 2.2 and will no longer be reported separately from reporting period FY 2013/14.