



CCA 2nd PUBLIC REPORT of EEO CYCLE 2, 2013

Part 1 - Corporation details

Period to which the report relates

Start Period

July 1st 2011

End Period

December 31st 2013

Controlling corporation

Coca-Cola Amatil Limited

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

Over the last 12 months CCA has finalised its roll out of new blowfill PET production lines at key manufacturing sites around Australia. Most recently PET blowfill lines were installed in:

- Richlands, QLD installed 3 lines, 1 each of Bottled Water PET, Large bottle PET & Warm-fill PET
- Kewdale, WA installed 1 line, a small bottle PET
- Bayswater, VIC installed 1 line a Warm-fill PET

The SPCA business announced in 2013 the intention to consolidate its three manufacture sites to one in the future.

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*.

Alison Watkins, CCA Group Managing Director

Date

Part 2 - Assessment outcomes

Table 2.1 – Assessment details

Name of entity	CCA Beverages	
A. Total corporate energy use in the last financial year	680,491	GJ
B. Total energy use covered by assessments	503,120	GJ
C. Total percentage of energy use assessed (B ÷ A) x 100	73.9	%

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

CCA has utilised several methods for assessing facility energy use to identify the most feasible energy saving opportunities to maximise the potential for implementation and the financial savings achievable from them. They included:

1. An assessment of the current operation of each sites major unit operations e.g. boilers, air compressors, refrigeration systems and lighting by a selection of CCA's key suppliers using experts in their field for each aspect
2. Using The Coca-Cola Company's top 10 tool which allows sites to focus on the simple, quick and lowest cost wins in reducing energy use, examples including: reducing compressed air and steam leaks, eliminating the use of compressed air for container drying, piping insulation, analysing and implementing temperature, pressure, etc. set-points for unit operations
3. Operational Excellence (OE) a business wide program designed to systematically define, measure, analysis, implement and control projects specifically to eliminate all forms of waste in a process, in this case energy waste.
4. Through the CCA Innov8 program where all employees can register ideas for innovative improvements across all facets of the business, though again in this case only the energy saving innovations were used as relevant ideas.
5. Via the capital investment program of CCA. Where a capital investment is made at a site and if relevant an analysis of the potential to include energy savings measures is also made and provided it is aligned with CCA's investment criteria is incorporated into the design phase of the project.

This approach has been designed to maximise the return on investment in conducting the assessments by focussing only on those areas most likely to deliver the best possible cost saving opportunities at minimal to zero capital cost.

Name of entity	SPC Ardmona
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A. Total corporate energy use in the last financial year	499,541	GJ
B. Total energy use covered by assessments	374,640	GJ
C. Total percentage of energy use assessed (B + A) x 100	75.0	%

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

SPC Ardmona has utilised the same basic methods for assessing facility energy use as the CCA beverages division as both utilise very similar unit operations for the most part of the manufacturing process:

1. As with CCA beverages, an assessment of the current operation of each sites major unit operations e.g. boilers, air compressors, refrigeration systems and lighting by a selection of CCA's key suppliers using experts in their field for each aspect
2. Using only the relevant aspects of The Coca-Cola Company's top 10 tool, some of these do not apply to the different manufacturing methods of fruit processing over beverage manufacture
3. Operational Excellence (OE) is also part of the SPC Ardmona business and this division has its own steering committees for selecting, managing and prioritising projects
4. Through the SPC Ardmona Innov8 program where as with CCA beverages all employees can register ideas for innovative improvements across all facets of the business, though again in this case only the energy saving innovations were used as relevant ideas.
5. Via the capital investment program of SPC Ardmona. Where a capital investment is made at a site and if relevant an analysis of the potential to include energy savings measures is also made and provided it is aligned with SPC Ardmona's investment criteria is incorporated into the design phase of the project.



Table 2.2 - Energy efficiency opportunities identified in the assessment

CCA Beverages

Status of opportunities identified to an accuracy of better than or equal to $\pm 30\%$		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	55	51	68,893			4	343	69,236
	Implementation commenced	7	7	4,966					4,966
	To be implemented	7	7	694					694
	Under investigation	12	12	17,634					17,634
	Not to be implemented	20	4	2,721	4	3,639	12	3,742	10,102
Outcomes of assessment	Total identified	101	81	94,908	4	3,639	16	4,085	102,632

SPC Ardmona

Status of opportunities identified to an accuracy of better than or equal to $\pm 30\%$		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	3	3	9,042					9,042
	Implementation commenced	0							0
	To be implemented	0							0
	Under investigation	12	11	105,572			1	0	105,572
	Not to be implemented	6					6	2,070	2,070
Outcomes of assessment	Total identified	21	14	114,614			7	2,070	116,684

Table 2.3 - Details of significant opportunities identified in the assessment

Description of opportunity No. 1 – SPCA Shepparton	Voluntary Information	
<p><u>Automation of steam despatch to maximise boiler efficiency</u> By automating the control of steam used in the plant the Shepparton site could reduce the need to run both steam boilers simultaneously generating significant savings in steam production and gas consumption on the site.</p>	Equipment type	PLC control systems
	Business response	Under Investigation
	Energy saved (GJ)	10,000
	Greenhouse gas abated (CO2-e)	513 T
	\$ saved	\$40,000
	Payback period	1.5 years
Description of opportunity No. 2 – CCA Northmead	Voluntary Information	
<p><u>Reduced refrigeration load through beverage near ambient fill</u> By upgrading the beverage production lines at Northmead to blowfill technology a significant drop in the refrigeration load has been accomplished through the increase in beverage filling temperature now possible. Previously all beverage filled into PET was chilled to bottle; with the new blowfill lines it has been possible to increase this final filling temperature to near ambient.</p>	Equipment type	Industrial refrigeration
	Business response	Implemented
	Energy saved (GJ)	3,819
	Greenhouse gas abated (CO2-e)	860 T
	\$ saved	\$122,456
	Payback period	0.2 years
Description of opportunity No. 3 – CCA Richlands	Voluntary Information	
<p><u>LED lighting upgrade to factory & administration areas</u> The Richlands site has the potential to replace all its current office and factory lighting with appropriate LED technology to reduce costs, energy consumption, site electrical demand and associated maintenance costs. A large scale retrofit of the current Hi & Lo bay lighting along with T8 luminaires and halogen down lights would be necessary to do so.</p>	Equipment type	Lighting
	Business response	Under Investigation
	Energy saved (GJ)	10,031
	Greenhouse gas abated (CO2-e)	2,480 T
	\$ saved	\$299,109
	Payback period	2.0 years

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.

