

WHL '15

WOOLWORTHS HOLDINGS LIMITED / 2015 CRITERIA AGAINST WHICH
KPI'S WERE MEASURED IN THE 2015 GOOD BUSINESS JOURNEY REPORT

THE CRITERIA AGAINST WHICH THE KPIS WERE MEASURED IN THE 2015 GOOD BUSINESS JOURNEY REPORT IS AS FOLLOWS:

1. Water usage at head office: Total water usage for the five head office buildings (Woolworths House, Atlantic House, Corporation Street, Woolworths Financial Services and CTC) for the 12 months ended 28 June 2015 based on the metering online system.
2. Water usage at distribution centres: Total water usage for the 12 months ended 28 June 2015 for the distribution centres owned by Woolworths – Midrand, Maxmead, Racecourse Gardens and Montague Gardens based on the metering online system.
3. Water usage at stores: Total water usage for the 12 months ended 28 June 2015 of the South African corporate stores based on the metering online system.
4. The number of packaging improvements per Woolworths branded foods and general products i.e. stock-keeping units (SKUs) achieved in one or more of the following four ways:
 - An introduction of / an increase in post-consumer recycled content
 - A reduction in overall packaging weight
 - A redesign in packaging for easier local recycling
 - A use of renewable raw material(s) from certified sustainable sources with verifiable Chain of Custody, e.g. FSC wood, pulp, paper or board
5. Rating of the stores against the Green Stores Model:

WOOLWORTHS FULL LINE GREEN STORE (NOTE 1) INITIATIVE RATING TOOL VER 7 JULY 2015

	WEIGHTING	RATING	ENTER STORE (Y/N)?	ENTER STORE
REFRIGERATION	93			
100% Natural Gas system (Transcritical)		65		0
or Natural Gas/HFC system (Sub Critical)		60		0
or HFC system		55		0
Energy savings components (note 2)		17		0
Gas leak detection		5		0
Talking door alarm on cooler doors		3		0
AIR CONDITIONING	20			
U/floor heat reclaim & heat pump (Foods) and/or HFC air cooled package with energy savings (C&H)		20		0
or Hot water or gas heat reclaim (Foods) and/or HFC air cooled package (C&H)		18		0
or Water Cooled or Chilled Water AC system with regular Legionella inspections (Note 11)		16		0
LIGHTING	20			
Roof mounted opaque skylights		10		0
or Opaque louvres on smoke vent system		8		0
Side wall glazing (Note 3)		2		0
Dimmable lighting under natural light conditions		2		0
80W T5 Rail fitting (Foods), LED's in ceiling and u/shelf (Beauty), T5 and 35W metal halides and				
LED's (C&H) (Note 4)		3		0
Electronic ballasts in linear light fittings (Note 5)		1		0
LED in freezer doors and cold rooms (Note 4)		1		0
Optimised lighting level design in office areas of <400 lux (Note 12)		1		0

**THE CRITERIA AGAINST WHICH THE KPI'S WERE MEASURED
IN THE 2015 GOOD BUSINESS JOURNEY REPORT IS AS FOLLOWS:**

	WEIGHTING	RATING	ENTER STORE (Y/N)?	ENTER STORE
WATER	15			
Rainwater capture and recycle		5		0
On line water metering (Note 6)		2		0
Timer taps on basins		2		0
Dual flush toilets		2		0
Heat pump geyser for interactive use		4		0
or Conventional Geyser with Thermal blanket		2		0
MANAGEMENT AND CONTROL	35			
Metering Online monitoring system (Note 7)		2		0
Automated load control (ALCI) (Note 8)		5		0
Management and staff training and awareness sessions		20		0
Real time energy display		3		0
Power Factor Correction (Note 9)		5		0
OTHER	20			
Full air lock / revolving door (Note 3)		5		0
OR automated sliding doors		4		0
LED external signage		3		0
Waste management recycling facilities in store (Note 3)		3		0
VOC free paint (Note 10)		3		0
Recycled paper bulkheads		2		0
Cycling rack or close access to public transport (Note 3)		2		0
Low Water Loss Fire Sprinkler Systems (Note 13)		2		0
Maximum possible score	200			0

Platinum Store: Rating of 160 – 200
 Gold Store: Rating of 140 – 159
 Silver Store: Rating of 115 – 139

THE CRITERIA AGAINST WHICH THE KPIS WERE MEASURED IN THE 2015 GOOD BUSINESS JOURNEY REPORT IS AS FOLLOWS:

1	The Green Stores Model above represents the model that was used to assess the progress of the sustainability of new Woolworths stores opened between 1 July 2014 and 30 June 2015. The Green Stores Model was developed by Woolworths Management. It will be improved and expanded on from year to year. To indicate items specific to Foods or Clothing & Home stores, the abbreviations Foods and C&H were used. If no indication is given, the item applies to both Foods and Clothing & Home stores. In order to achieve a baseline rating, the new stores opened between 1 July 2014 and 30 June 2015 were assessed against the detailed requirements in the table above.
2	Full house energy saving options includes all of the following: Refrigeration cases: high pressure coils in refrigeration cases; electronically commutated (EC) fan motors; electronic valves and front glass shelf to prevent cold air spillage from open refrigeration cases; no electrical defrost system; low energy lighting and LED lighting in glass door freezers. Other: Variable speed drives (VSDs) on fan and pump motors; EC fan motors on condensers and energy demand optimization software.
3	The implementation of these measures is very dependent on where the store is located.
4	LED (Light-emitting Diode) T5 and metal halide light fittings are energy saving light sources. The LED light source is a low energy consumption light source, has a long life and is low maintenance.
5	Electronic ballasts reduce lighting energy consumption on startup. A further energy saving of 20% during usage compared to conventional wire wound ballast with a considerable reduction in heat loss.
6	Online water metering is defined as an automatic water meter and real time monitoring service. This assists in saving water by providing store and head office management with online profiles of their daily water consumption and billing, creating awareness with staff and allows accurate and realistic reduction targets to be set.
7	MOL (Metering On Line) assists in saving energy by providing store and head office management with online profiles of their daily electricity consumption and billing, creating awareness with staff and allows accurate and realistic reduction targets to be set.
8	ALC (Automated load control systems) allow one to access and control electrical equipment via a wide area network, nationally or internationally. The ALC assists both with reducing the energy consumption (kWhrs) and the reduction of the maximum demand (kVA). Thus helping with the reduction of replacement costs of electrical equipment.
9	The Power factor of an electrical power system is particularly important to the power companies (Eskom) and consumers such as Woolworths because the power factor determines how efficiently the power distribution equipment is used and it influences the cost of electricity usage (consumers have to pay electricity charges for their maximum demand in KVA plus units consumed). Most loads are inductive in nature and therefore have a low lagging power factor. This low power factor causes an increase in current. As a result additional losses of active power occur in all elements of a power system. To ensure the most favourable conditions for a supply system, it is important to have the power factor as close as possible to unity. A load with a higher power factor provides more power in the desired form than an identical load with a lower power factor. The system with the higher power factor is therefore more efficient. Thus if the consumer (Woolworths) improves the power factor, then there is a reduction in his maximum KVA demand and thus resultant energy and cost savings. The process of introducing reactive elements (capacitors) to bring the power factor closer to unity, is called power factor correction (PFC)
10	VOC free paint. VOC is defined as volatile organic compounds. VOC free paint is seen as a green solution to paint because it reduces toxins, reduces landfill groundwater and ozone depleting contaminants, is water based with little or no hazardous fumes and not deemed to be hazardous waste.
11	Change in definition from "U/floor heat reclaim & heat pump (Foods) and/or HFC air cooled package with energy savings (C&H) OR Hot water heat reclaim (Foods) and/or HFC air cooled package (C&H) OR Hot gas heat reclaim (Foods) and/or HFC air cooled package (C&H)" to "U/floor heat reclaim & heat pump (Foods) and/or HFC air cooled package with energy savings (C&H) OR Hot water or gas heat reclaim (Foods) and/or HFC air cooled package (C&H) OR Water Cooled or Chilled Water AC system with regular Legionella inspections". Legionella inspections are done on systems that use water (air conditioning).
12	Optimised lighting levels where suggested as the addition of lower lighting levels where discussed.
13	Addition to the rating tool (2015). Fire sprinkler systems can use many quantities of water. The use of lower water use sprinklers may be seen as using water more responsibly.

THE CRITERIA AGAINST WHICH THE KPI'S WERE MEASURED IN THE 2015 GOOD BUSINESS JOURNEY REPORT IS AS FOLLOWS:

WOOLWORTHS CLOTHING ONLY GREEN STORE (NOTE 1) INITIATIVE RATING TOOL VER 6 JULY 2015

	WEIGHTING	RATING	ENTER STORE (Y/N)?	ENTER STORE
AIR CONDITIONING	20			
U/floor heat reclaim & heat pump (Foods) and/or HFC air cooled package with energy savings (C&H)		20		0
or Hot water or gas heat reclaim (Foods) and/or HFC air cooled package (C&H)		18		0
or Water Cooled or Chilled Water AC system with regular Legionella inspections (note 10)		16		0
LIGHTING	20			
Roof mounted opaque skylights		10		0
or Opaque louvres on smoke vent system		8		0
Side wall glazing (note 2)		2		0
Dimmable lighting under natural light conditions		3		0
LED's in ceiling and u/shelf (Beauty), T5 and 35W metal halides and LED's (C&H) (note 3)		2		0
Electronic ballasts in linear light fittings (note 4)		1		0
Optimised lighting level design in office areas of <400 lux (note 11)		2		0
WATER	15			
Rainwater capture and recycle		5		0
On line water metering (note 5)		2		0
Timer taps on basins		2		0
Dual flush toilets		2		0
Heat pump geyser for interactive use or hot water use		4		0
MANAGEMENT AND CONTROL	30			
Metering Online monitoring system (note 6)		2		0
Automated load control (ALC) (note 7)		5		0
Management and staff training and awareness sessions		18		0
Power Factor Correction (note 8)		5		0
OTHER	15			
Full air lock / revolving door (note 2)		3		0
OR automated sliding doors		2		0
LED external signage (note 3)		3		0
Waste management recycling facilities in store (note 2)		3		0
VOC free paint (note 9)		3		0
Recycled paper bulkheads		1		0
Cycling rack or close access to public transport (note 2)		1		0
Low Water Loss Fire Sprinkler Systems (note 12)		1		0
Maximum possible score	100			0

Platinum Store: Rating of 80 – 100
 Gold Store: Rating of 70 – 79
 Silver Store: Rating of 60 – 69

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2	The implementation of these measures is very dependent on where the store is located.
3	LED (Light-emitting Diode) T5 and metal halide light fittings are energy saving light sources. The LED light source is a low energy consumption light source, has a long life and is low maintenance.
4	Electronic ballasts reduce lighting energy consumption on startup. A further energy saving of 20% during usage compared to conventional wire wound ballast with a considerable reduction in heat loss.
5	Online water metering is defined as an automatic water meter and real time monitoring service. This assists in saving water by providing store and head office management with online profiles of their daily water consumption and billing, creating awareness with staff and allows accurate and realistic reduction targets to be set.
6	MOL (Metering On Line) assists in saving energy by providing store and head office management with online profiles of their daily electricity consumption and billing, creating awareness with staff and allows accurate and realistic reduction targets to be set.
7	ALC (Automated load control) systems allow one to access and control electrical equipment via a wide area network, nationally or internationally. The ALC assists both with reducing the energy consumption (kWhrs) and the reduction of the maximum demand (kVA). Thus helping with the reduction of replacement costs of electrical equipment.
8	The Power factor of an electrical power system is particularly important to the power companies (Eskom) and consumers such as Woolworths because the power factor determines how efficiently the power distribution equipment is used and it influences the cost of electricity usage (consumers have to pay electricity charges for their maximum demand in KVA plus units consumed). Most loads are inductive in nature and therefore have a low lagging power factor. This low power factor causes an increase in current. As a result additional losses of active power occur in all elements of a power system. To ensure the most favourable conditions for a supply system, it is important to have the power factor as close as possible to unity. A load with a higher power factor provides more power in the desired form than an identical load with a lower power factor. The system with the higher power factor is therefore more efficient. Thus if the consumer (Woolworths) improves the power factor, then there is a reduction in his maximum KVA demand and thus resultant energy and cost savings. The process of introducing reactive elements (capacitors) to bring the power factor closer to unity, is called power factor correction (PFC)
9	VOC free paint. VOC is defined as volatile organic compounds. VOC free paint is seen as a green solution to paint because it reduces toxins, reduces landfill, groundwater and ozone depleting contaminants, is water based with little or no hazardous fumes and not deemed to be hazardous waste.
10	Change in definition from "U/floor heat reclaim & heat pump (Foods) and/or HFC air cooled package with energy savings (C&H) OR Hot water heat reclaim (Foods) and/or HFC air cooled package (C&H) OR Hot gas heat reclaim (Foods) and/or HFC air cooled package (C&H)" to "U/floor heat reclaim & heat pump (Foods) and/or HFC air cooled package with energy savings (C&H) OR Hot water or gas heat reclaim (Foods) and/or HFC air cooled package (C&H) OR Water Cooled or Chilled Water AC system with regular Legionella inspections". Legionella inspections are done on systems that use water (air conditioning).
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