



**Distell - Water use efficiency**  
**25 March 2019**

# Who & Where is Distell?



Distell was created in 2000 by the merger of Stellenbosch Farmers' Winery (SFW) and Distillers Corporation.

- Distell is Africa's leading producer and marketer of spirits, fine wines, ciders and ready-to-drinks
- Distell is currently the 2<sup>nd</sup> largest Cider Producer in the world
- Over 5,000 employees

## South Africa

- 16 production facilities
- 12 Western Cape based



# South Africa - Water use efficiency – history



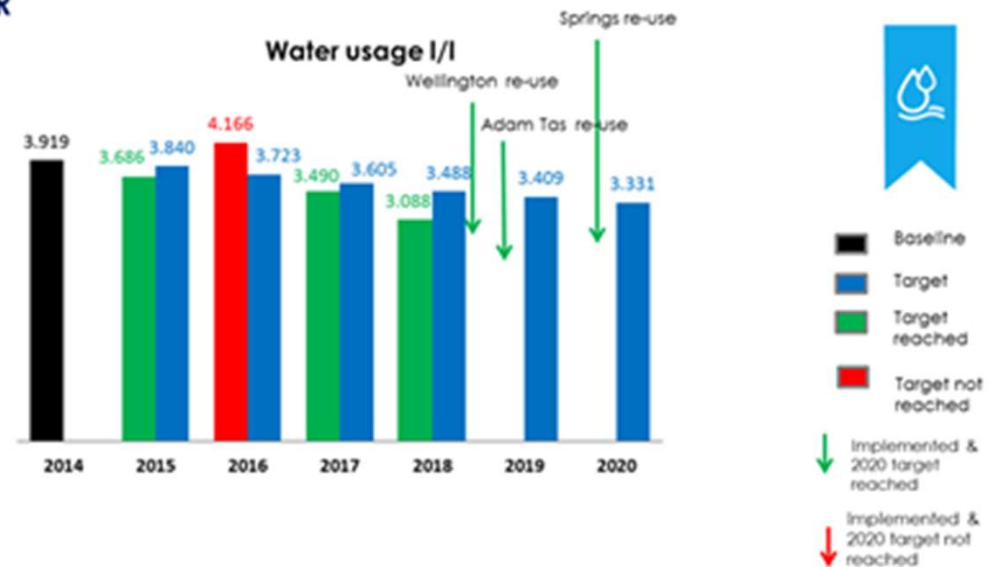
- Water use efficiency action initiated in 2010 – water use in 2009 was 4.2l/l

## Water use efficiency (in factory)



- Water usage in end FY 2014 3.9 l/l
- Target set to reduce by 15% by 2020 from 2014 – 3.3 l/l
- At end of **FY 2018** exceeded 2020 target - usage was **3.1 l/l**. **25% reduction** from 2009

### WATER



### Monitoring and measurement

- Implemented improved monitoring and reporting systems in 2010
- Included water network analysis and sub-metering

### Larger water use reduction projects and water audits

- 2013: Springs pasteuriser water recycling
- 2015: Adam Tas & Greenpark – water reduction projects
  - Spring – recycling of RO brine & Bottle rinse water
- 2016: Adam Tas bottle rinse water recycling
  - Water audits completed – Adam Tas, Goudini & Wellington
- 2017: Adam Tas cellar water reductions via low flow systems
  - Water audits completed – Wadeville, Springs & Greenpark

### Larger water use reduction projects and water audits - continue

- 2017: Undertook water risk assessment in collaboration with WWF, using the international Water Risk Filter model
- 2018: Greenpark – RO bring recycling, Arkal filter back wash recycling, Pasteuriser water recycling
  - Temporary relocating some production activities to sites outside Western Cape
  - Closed loop cooling system installed at Wellington
  - Awareness program for office water use
  - Water audits completed – Monis & Port Elizabeth
- 2019: Port Elizabeth – Replace bottle old washers
  - Adam Tas move from tunnel to flash pasteurisers

# Water reduction Western Cape sites – drought 2018



Distell Western Cape - Water Consumption

Update : Dec-18		Pre-drought (2010-2015) Avg Water Use [kL]		Past year Use [kL] Period: Jan-18 to Dec-18			Past Semester Use [kL] vs corresponding semester in 2015		
Site	Municipal Area	Annual	Monthly	Annual	Monthly	Saving %	Jul-Dec 2015	Jul-Dec 2018	Saving %
Epping - Green Park	City of Cape Town	351 926	29 327	203 420	16 952	42.2%	165 139	110 236	33.2%
Durbanville Hills	City of Cape Town	15 674	1 306	13 657	1 138	12.9%	6 829	7 827	-14.6%
<b>City of Cape Town Municipal Supply</b>		<b>367 600</b>	<b>30 633</b>	<b>217 077</b>	<b>18 090</b>	<b>40.9%</b>	<b>171 968</b>	<b>118 063</b>	<b>31.3%</b>
Adam Tas	Stellenbosch	168 750	14 063	136 275	11 356	19.2%	89 910	74 250	17.4%
Bergkelder	Stellenbosch	91 138	7 595	38 653	3 221	57.6%	49 752	23 726	52.3%
Van Ryn	Stellenbosch	19 345	1 612	5 091	424	73.7%	8 855	2 409	72.8%
<b>Stellenbosch Municipal Supply</b>		<b>279 233</b>	<b>23 269</b>	<b>180 019</b>	<b>15 002</b>	<b>35.5%</b>	<b>148 517</b>	<b>100 385</b>	<b>32.4%</b>
Paarl -Monis	Drakenstein	317 621	26 468	104 499	8 708	67.1%	208 659	52 613	74.8%
Wellington	Drakenstein	21 540	1 795	23 626	1 969	-9.7%	8 788	10 511	-19.6%
Nederburg	Drakenstein	8 917	743	13 326	1 111	-49.4%	147	2 815	-1815.0%
<b>Drakenstein Municipal Supply</b>		<b>348 078</b>	<b>29 007</b>	<b>141 451</b>	<b>11 788</b>	<b>59.4%</b>	<b>217 594</b>	<b>65 939</b>	<b>69.7%</b>
Worcester	Breede Valley	56 862	4 739	58 406	4 867	-2.7%	20 110	19 184	4.6%
Robertson	Langeberg	5 325	444	267	22	95.0%	1 914	95	95.1%
<b>Western Cape Municipal Supply</b>		<b>1 057 098</b>	<b>88 091</b>	<b>597 220</b>	<b>49 768</b>	<b>43.5%</b>	<b>560 103</b>	<b>303 666</b>	<b>45.8%</b>
Bergkelder	Bergkelder borehole	-	-	-	-	-	-	-	-
Durbanville Hills	JC le Roux borehole	-	-	-	-	-	-	-	-
Nederburg	Nederburg borehole	83 825	6 985	62 354	5 196	25.6%	28 855	25 684	11.0%
JC le Roux	JC le Roux borehole	44 027	3 669	17 064	1 422	61.2%	16 909	8 373	50.5%
Goudini	Goudini borehole	118 946	9 912	104 261	8 688	12.3%	52 036	49 327	5.2%
Estate Farms	Farm Boreholes	10 584	882	4 124	344	61.0%	1 060	574	45.9%
<b>Western Cape Ground water supply</b>		<b>257 383</b>	<b>21 449</b>	<b>187 803</b>	<b>15 650</b>	<b>27.0%</b>	<b>98 860</b>	<b>83 958</b>	<b>15.1%</b>
Wellington	Berg River	66 438	5 537	28 878	2 407	56.5%	38 267	26 016	32.0%
<b>Western Cape surface water supply</b>		<b>66 438</b>	<b>5 537</b>	<b>28 878</b>	<b>2 407</b>	<b>56.5%</b>	<b>38 267</b>	<b>26 016</b>	<b>32.0%</b>
<b>Total Western Cape Usage</b>		<b>1 380 919</b>	<b>115 077</b>	<b>813 900</b>	<b>67 825</b>	<b>41.1%</b>	<b>697 230</b>	<b>413 640</b>	<b>40.7%</b>

\* Reference is corresponding period in 2015

- Overall reduction in water use at all Western Cape sites for 2018 against 2015 base year was 41.1% and for FY19 YTD 40.7%.
- For FY19 YTD we reached the required 45% from Municipal supply.

- Drought in Western Cape added momentum to actions to reduce water use and identify alternative water sources,
  - Drilling of boreholes, safe yield and quality assessment and application for water use licences and water treatment facilities
  - Water reclamation from waste water following anaerobic, aerobic, ultra-filtration and reverse osmosis treatment of our industrial waste water - utilities and washing - no blending of final product
  - Construction of waste water reclamation plants for Springs, Adam Tas & Wellington completed
  - Principle agreement for future waste water reclamation plants at Worcester, Wadeville, Monis and Port Elizabeth



# Manufacturing: Water Continuity Plans

