

CoW, Water Demand Management For the USBMC



The Gateway to Endless Opportunities



MAY 2023

Our Values:

- Teamwork
- Customer Focus
- Communication
- Fairness and Equity
- Integrity

To be a **SMART** and **CARING CITY** by 2022

1. BACKGROUND

Water Demand Management goal is to implement fair water distribution under existing conditions.

2. CONSUMER ACHIEVEMENT for WHK

Sustainable water demand reductions archived

2020 the lowest at 140 l/day/capita

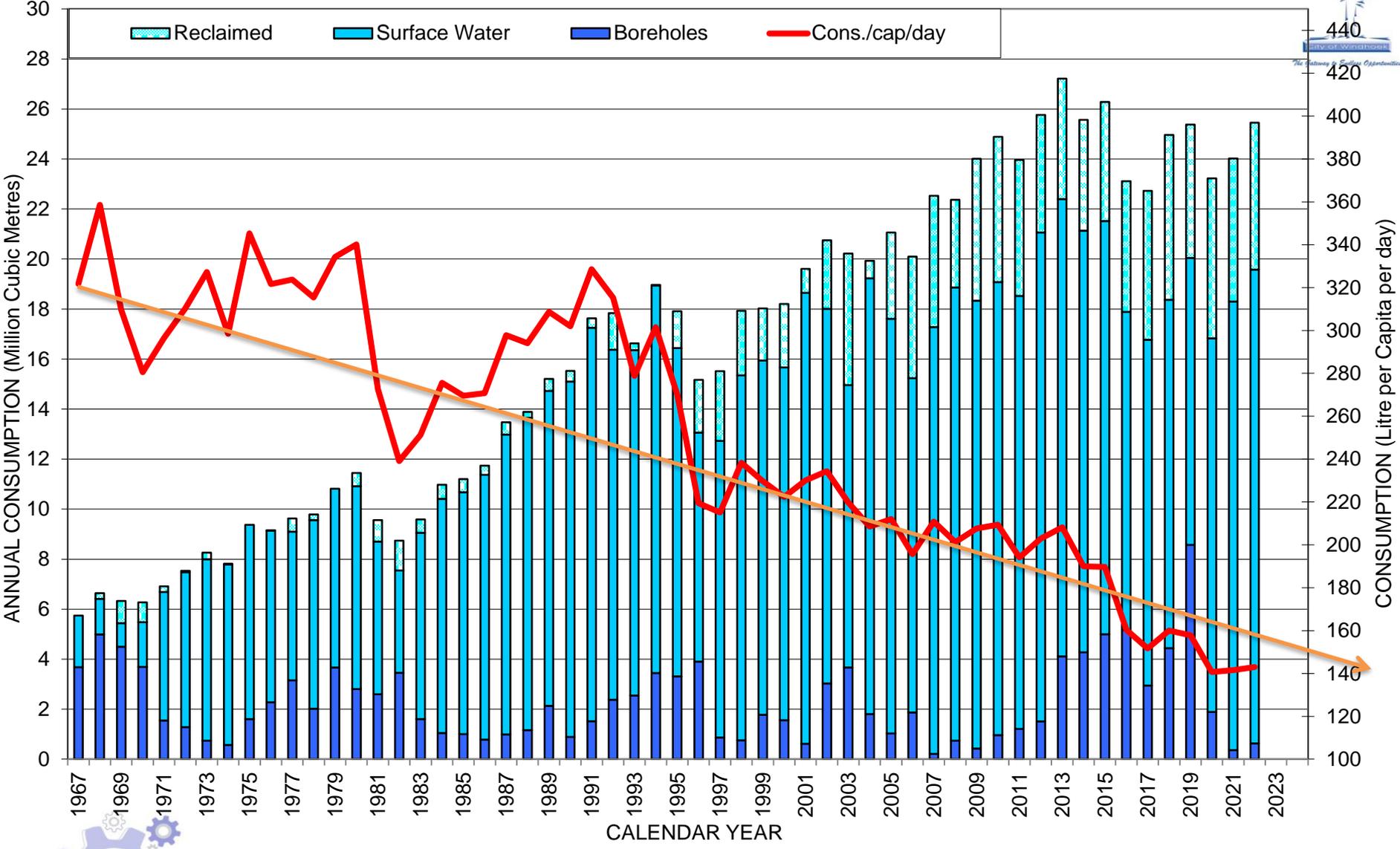
2023 water demand is 143 l/day /capita

3. WDM to reduce your water consumption!

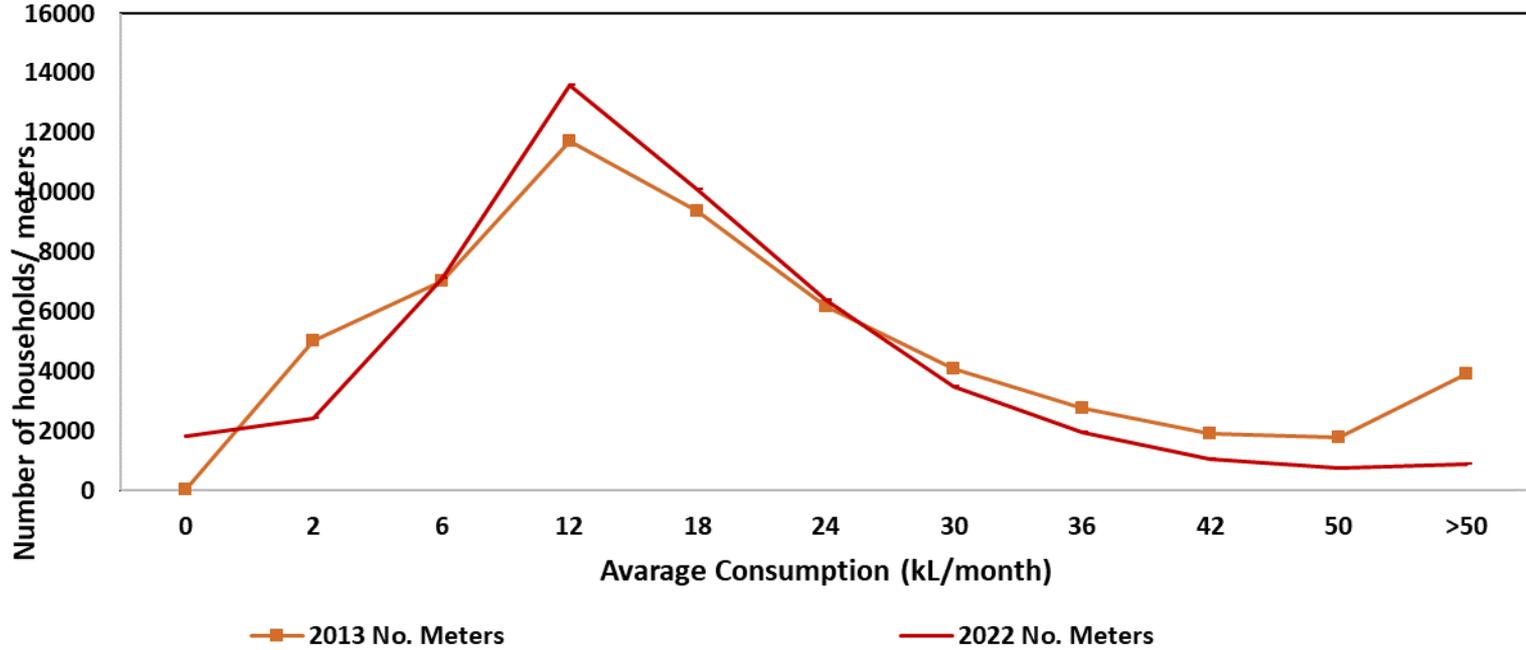
Water Efficiency & Water leak Management



WATER PRODUCTION FROM DIFFERENT SOURCES AND DAILY WATER CONSUMPTION PER CAPITA PER DAY



Number of Domestic households VS monthly Consumption



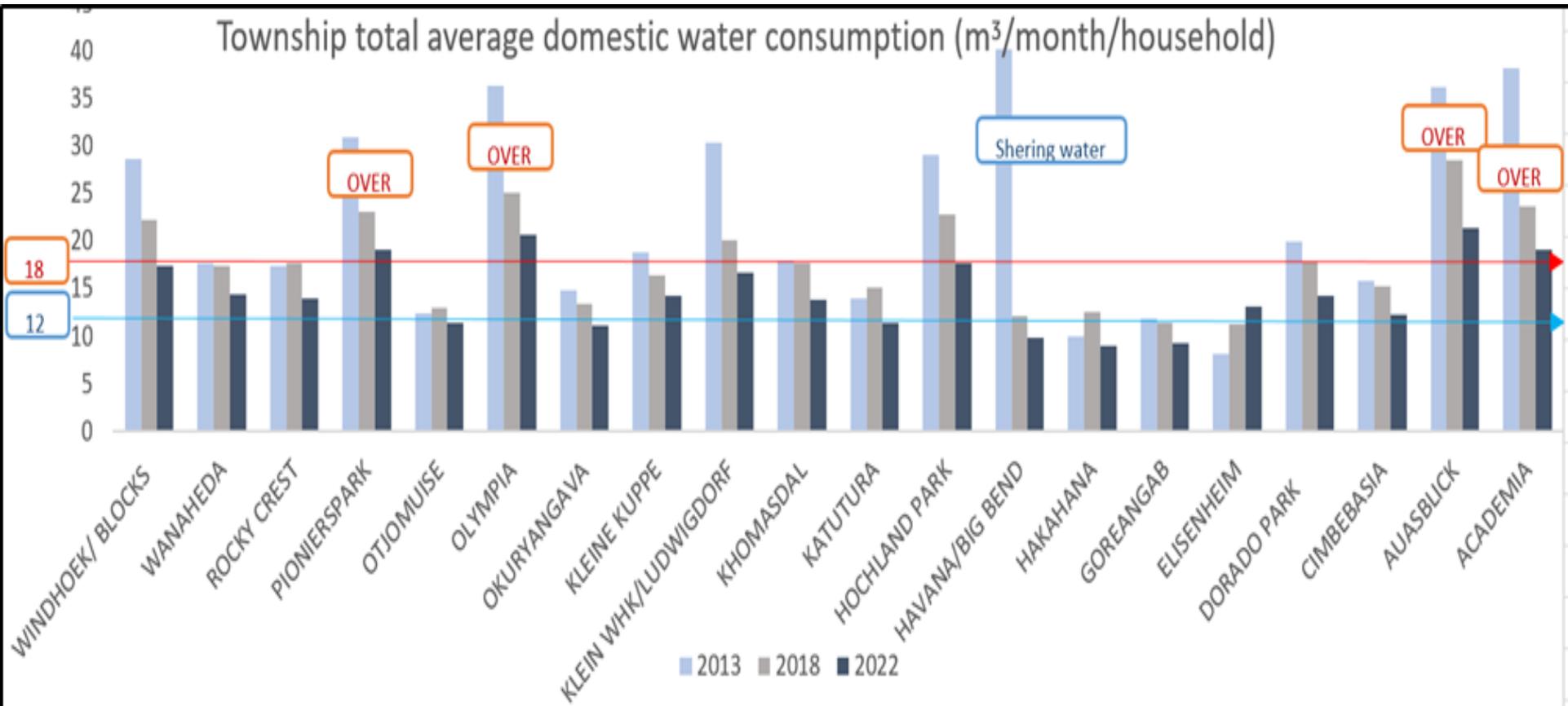
2013 No. Meters	21	5031	7015	11711	9368	6187	4074	2752	1905	1778	3920
2013 Cons. kl/month	0	2	6	12	18	24	30	36	42	50	>50
2013 Cons. kl/annum	0	24	72	144	216	288	360	432	504	600	>600
2013 % of households	0%	9%	13%	22%	17%	12%	8%	5%	4%	3%	7%
2013 % ; acumulated	0%	9%	22%	44%	62%	73%	81%	86%	89%	93%	100%

2022 No. Meters	1812	2412	7099	13606	10085	6372	3483	1947	1035	757	891
2022 Cons. kl/month	0	2	6	12	18	24	30	36	42	50	>50
2022 Cons. kl/annum	0	24	72	144	216	288	360	432	504	600	>600
2022 % of hoseholds	4%	5%	14%	27%	20%	13%	7%	4%	2%	2%	2%
2022 % ; acumulated	4%	9%	23%	50%	71%	84%	91%	95%	97%	98%	100%



Average Water Demand / Household by suburb

- Erf size - garden, % flat's & sectional title units
- Population density of household



3. WDM by Water Efficiency

60% of the water demand by households/ domestic

40% savings by water efficiency has a big impact

Before 2020

after 2020

Evaluate your water consumption based on (90l/person/day)			
No. of Persons	Daily	Weekly	Monthly
2	0.18	1.26	5.4
4	0.36	2.52	10.8
6	0.54	3.78	16.2
8	0.72	5.04	21.6
10	0.90	6.30	27.0
All volumes in kilo-litres (kl) = (m ³)			

Evaluate your water consumption being water efficient (50l/person/day)			
Persons	Daily	Weekly	Monthly
2	0.10	0.70	3.00
4	0.20	1.40	6.00
6	0.30	2.10	9.00
8	0.40	2.80	12.00
10	0.50	3.50	15.00
All volumes are Kl. =(1000 l) =1 m ³			



1 Water Management

(Know your consumption, be in control, mitigate losses)

ADMINISTRATION;

isolate water leak immediately

2 Water saving Attitude

(Positive attitude to save/reduce water)

HUMAN & PUBLIC BEHAVIOUR

3 Water efficient equipment

(Potential to reduce 50% consumption)

TECHNOLOGY

4 Recycle waste water for reuse

(Minimise demand & resource abstraction)

Reuse & Recycle

SPECIALISED MANAGEMENT & EQUIPMENT



Water Scarcity related to Drought Resilience

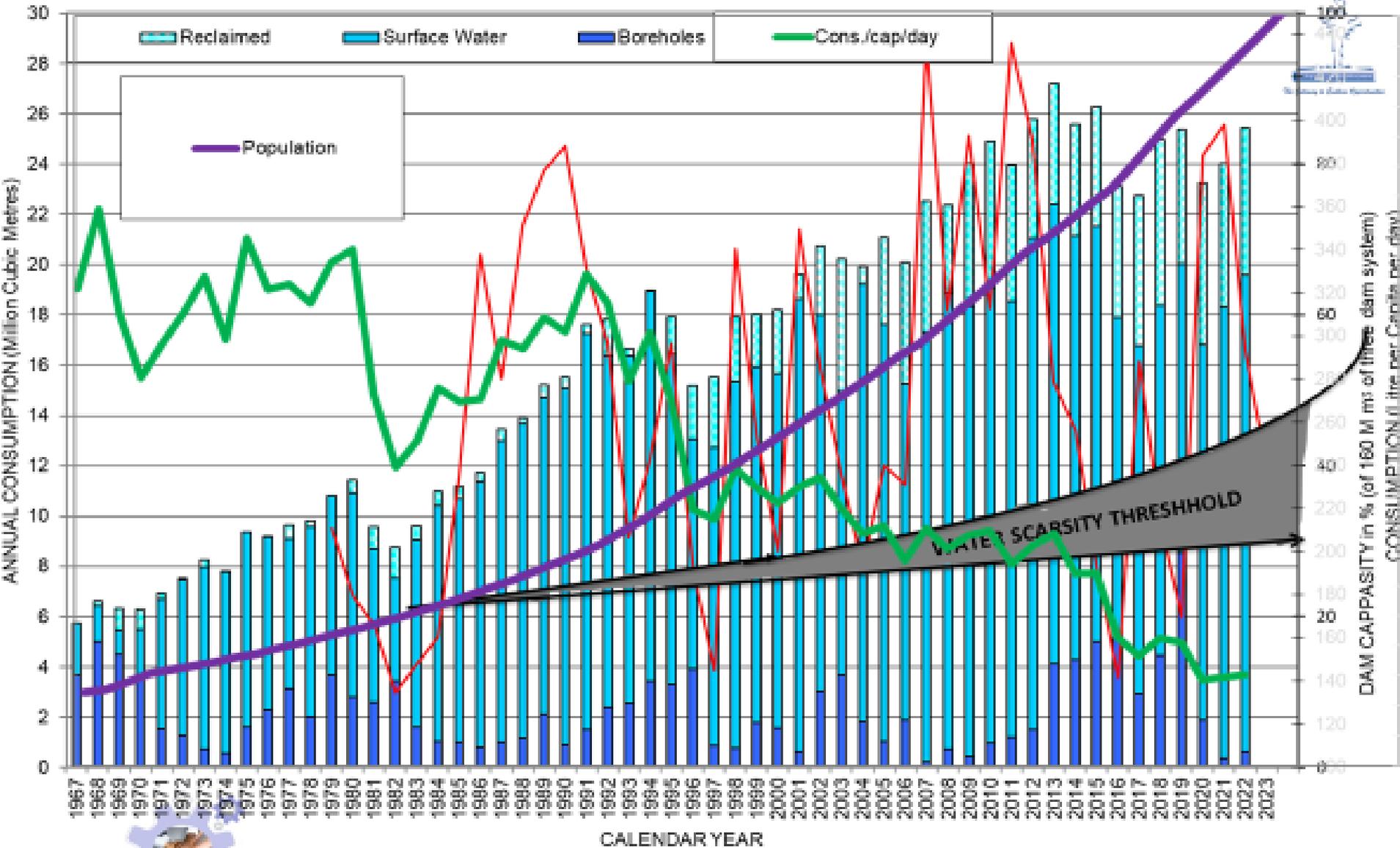
Water Demand Management prolongs water supply & ---
the water Resource (limits resilience capacities.)

The 2023-4 Water Supply Situation!

The Emergency Water Resource are sufficient for 2 years
Extended water scarcity can become a challenge



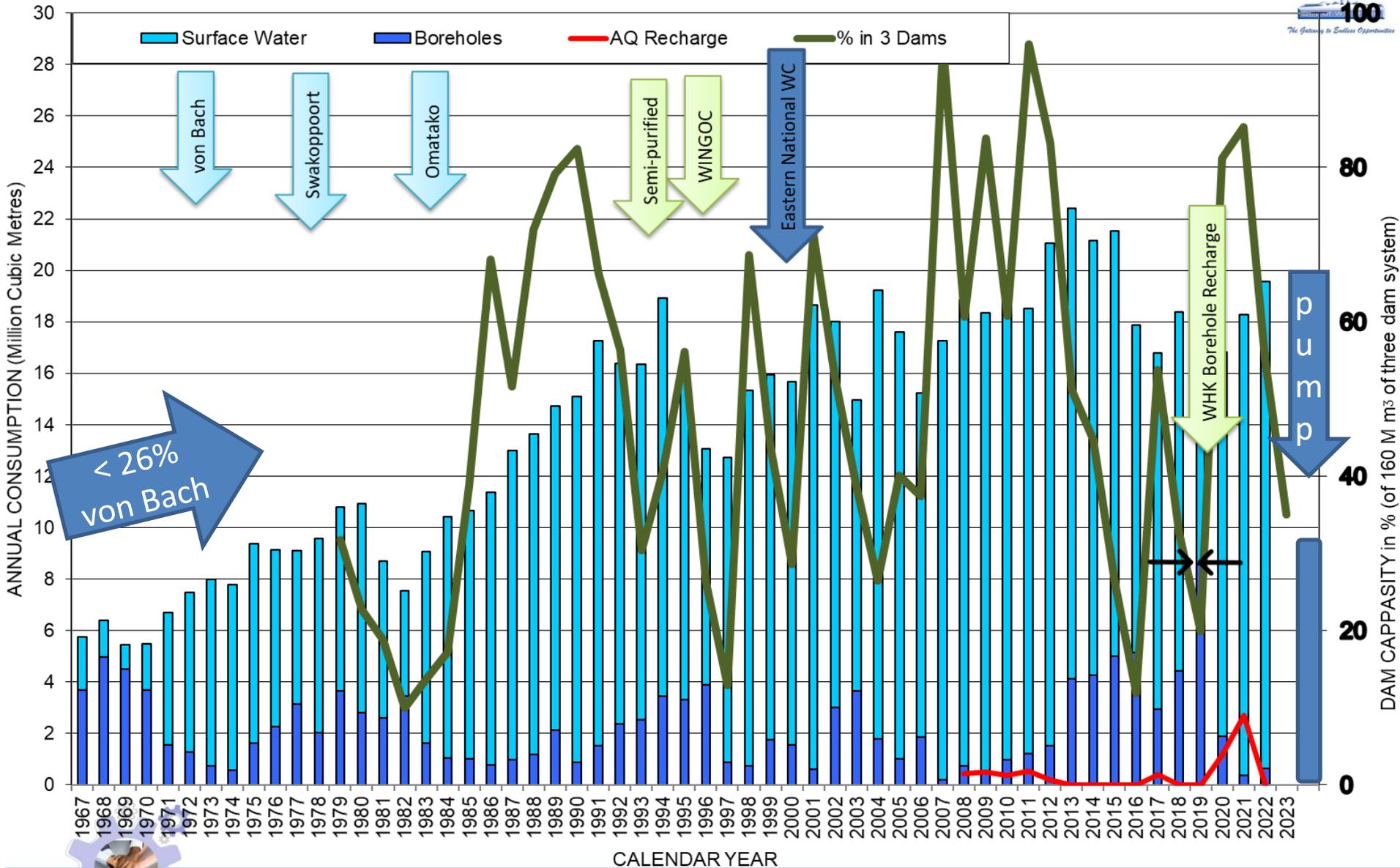
WATER PRODUCTION FROM DIFFERENT SOURCES AND % surface water within THREE DAM SYSTEM



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THANK YOU

