

Water Supply Management in the Central Area of Namibia: Upper Swakop Basin Management Committee Draft Position

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Upper Swakop Basin Management Committee

28 September 2023

Content

- USBMC – Water Resources Management Act
- CAN water demand challenge
- IWRM Plan – Strategic Action Plan
- Suggested action
- Community feedback

USBMC – Water Resources Management Act

Section 23: The functions of a basin management committee

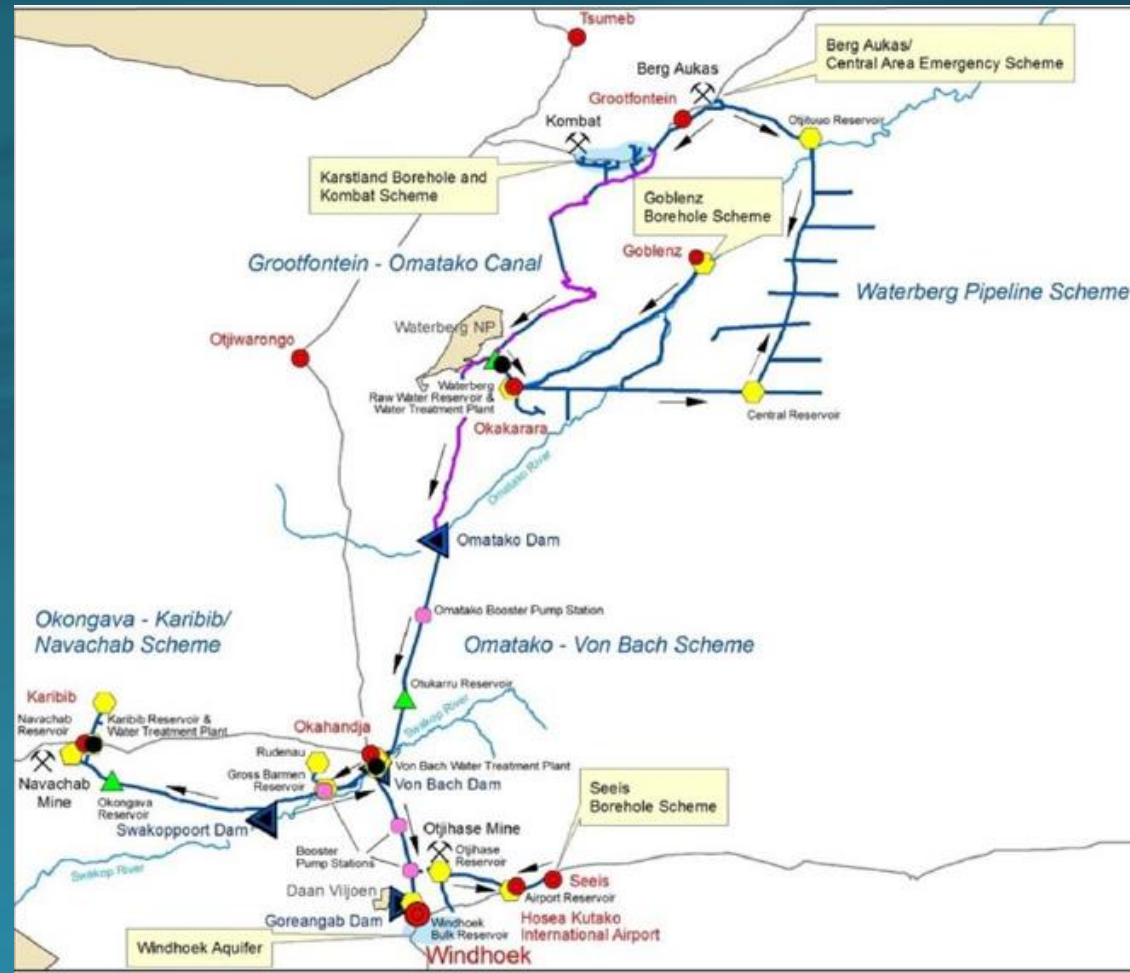
(b) to promote community participation in the protection, use, development, conservation, management and control of water resources in its water management area;

(c) to prepare or cause to be prepared an integrated water resources management plan for its water management area for submission to the Minister for consideration in developing the Integrated Water Resources Management Plan under section 31;

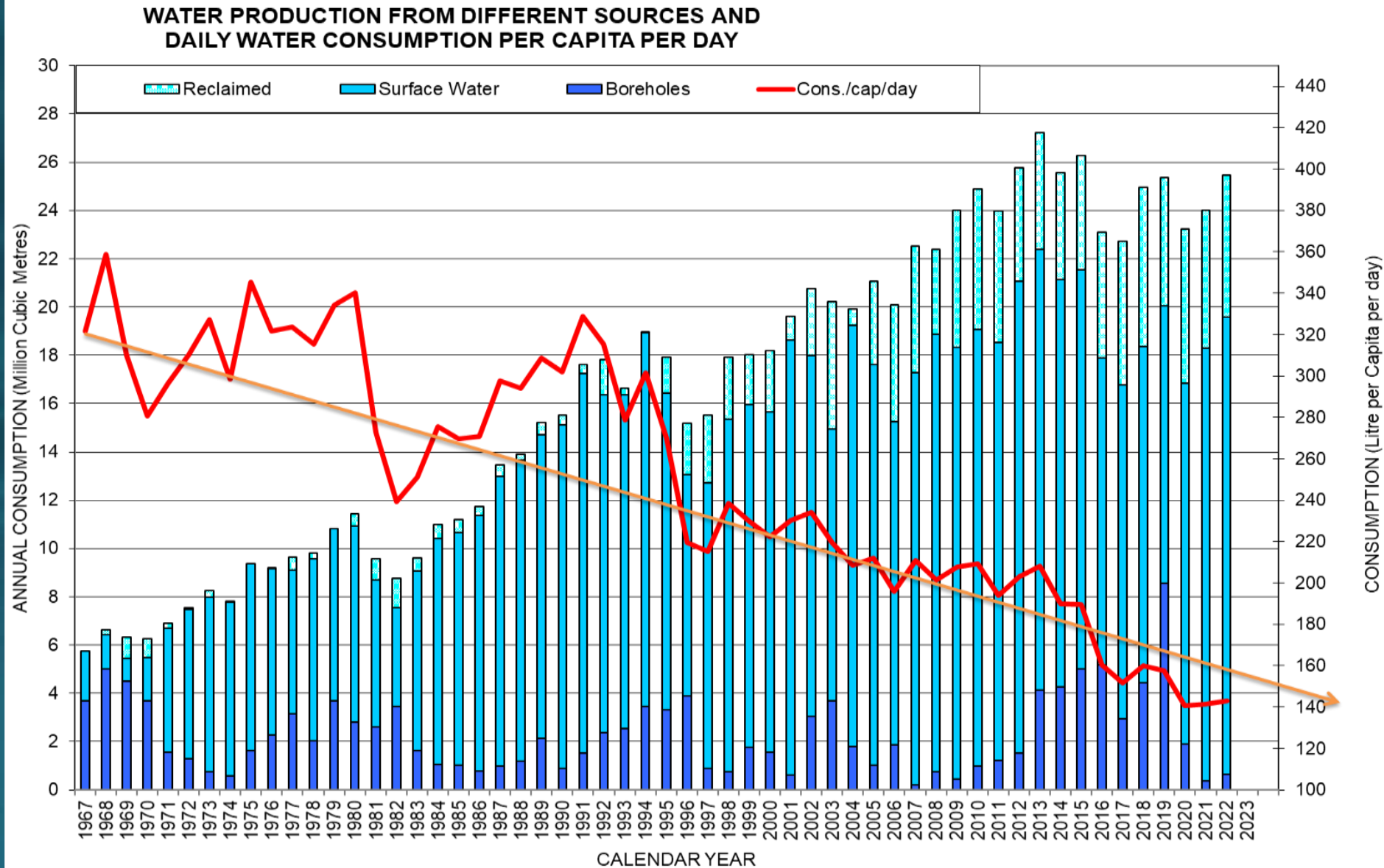
(f) to monitor and report on the effectiveness of policies and measures in achieving sustainable management of water resources and resource quality in its water management area;

CAN Water Demand Challenge

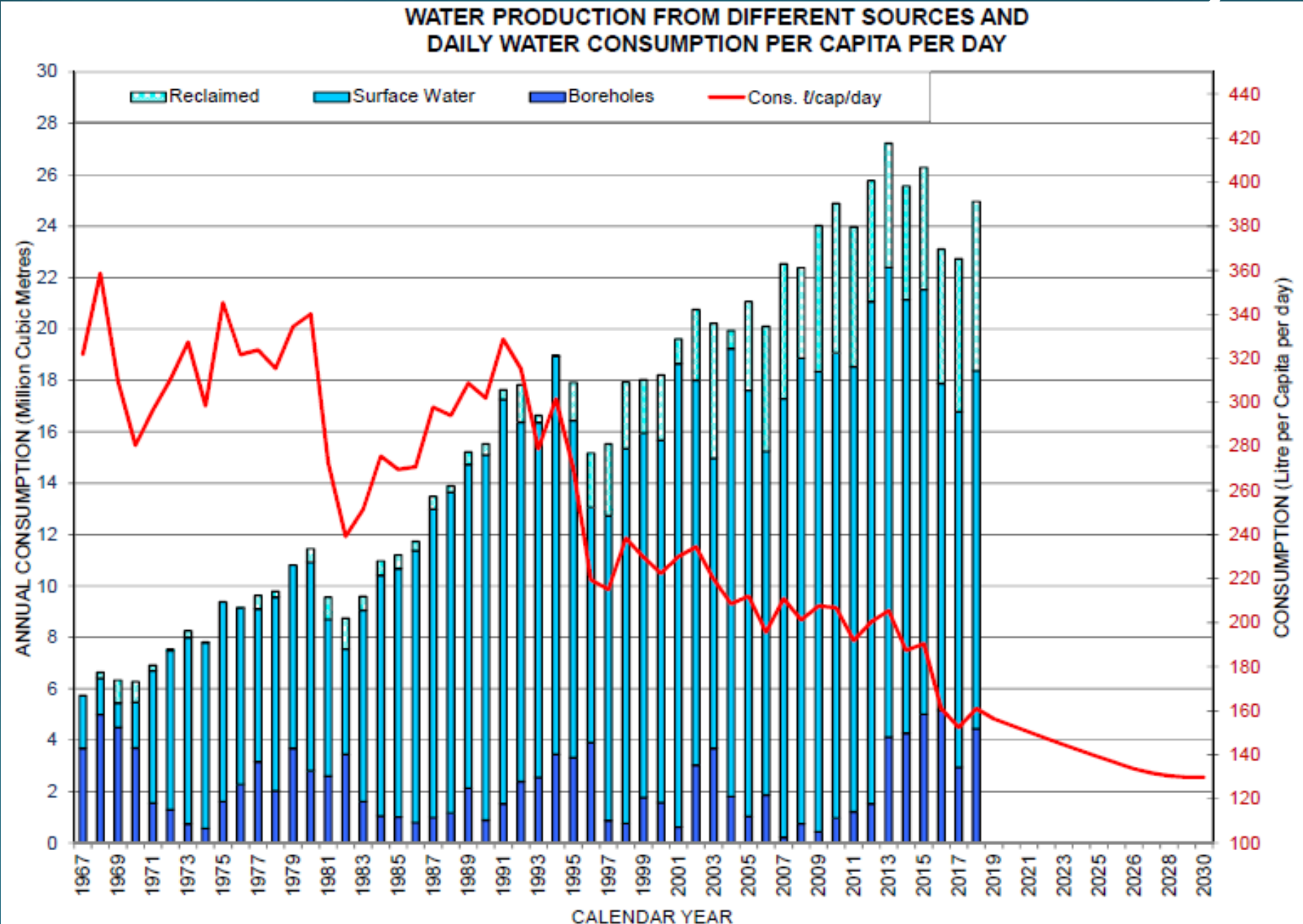
- Water demand in CAN higher than sustainable surface water supply (NamWater, 2019)



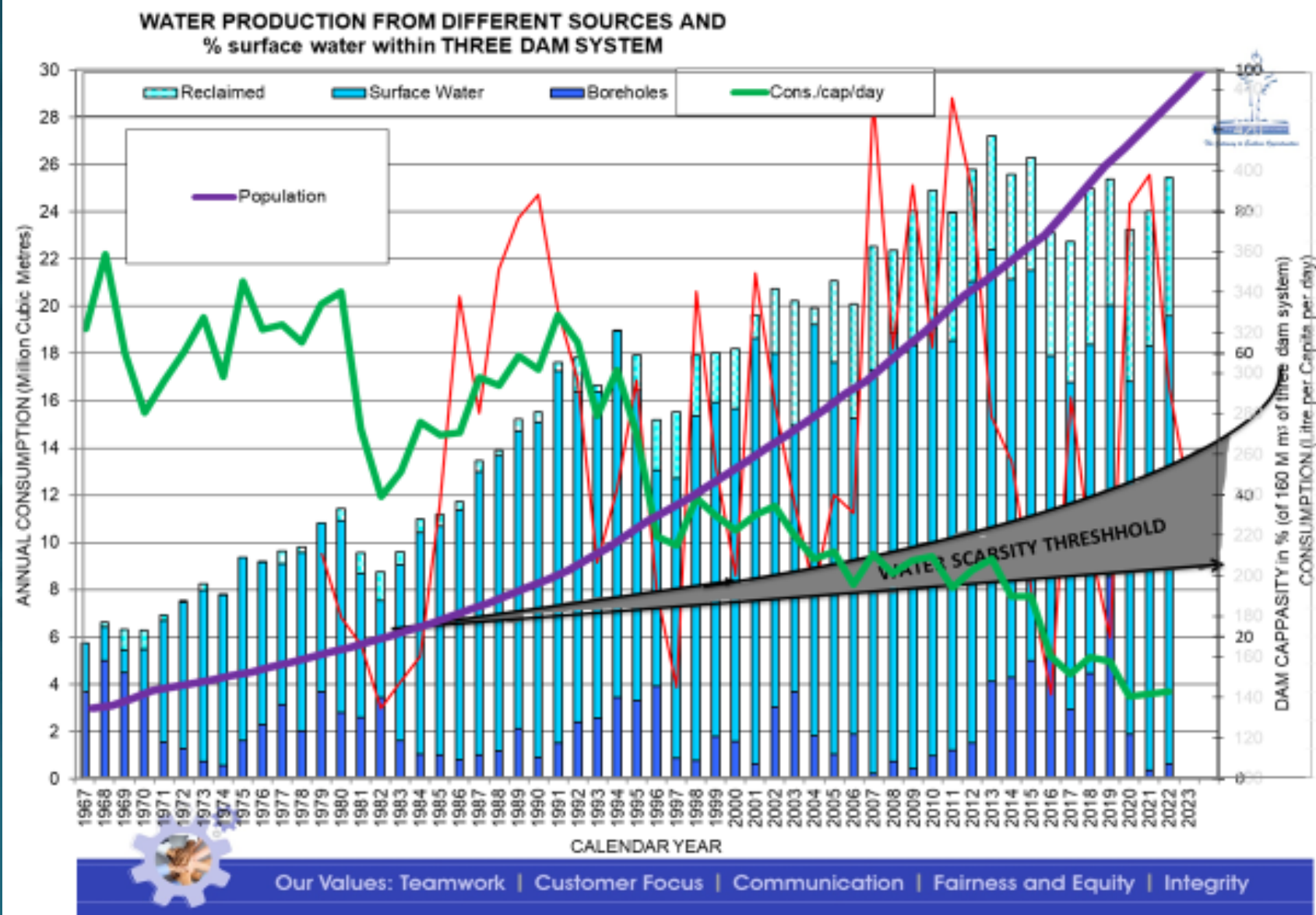
CAN Water Demand Challenge



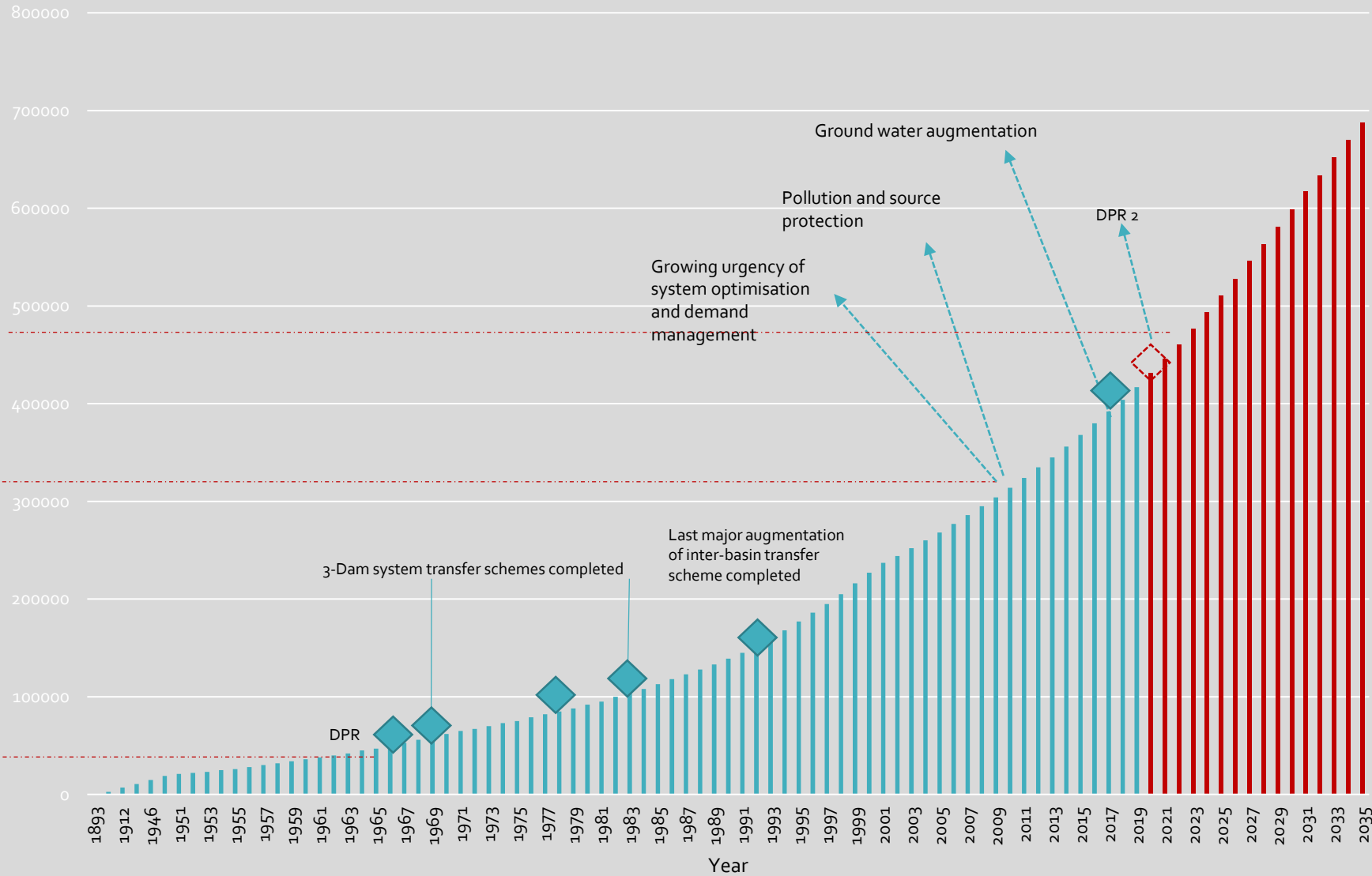
CAN Water Demand Challenge



CAN Water Demand Challenge



Windhoek Population

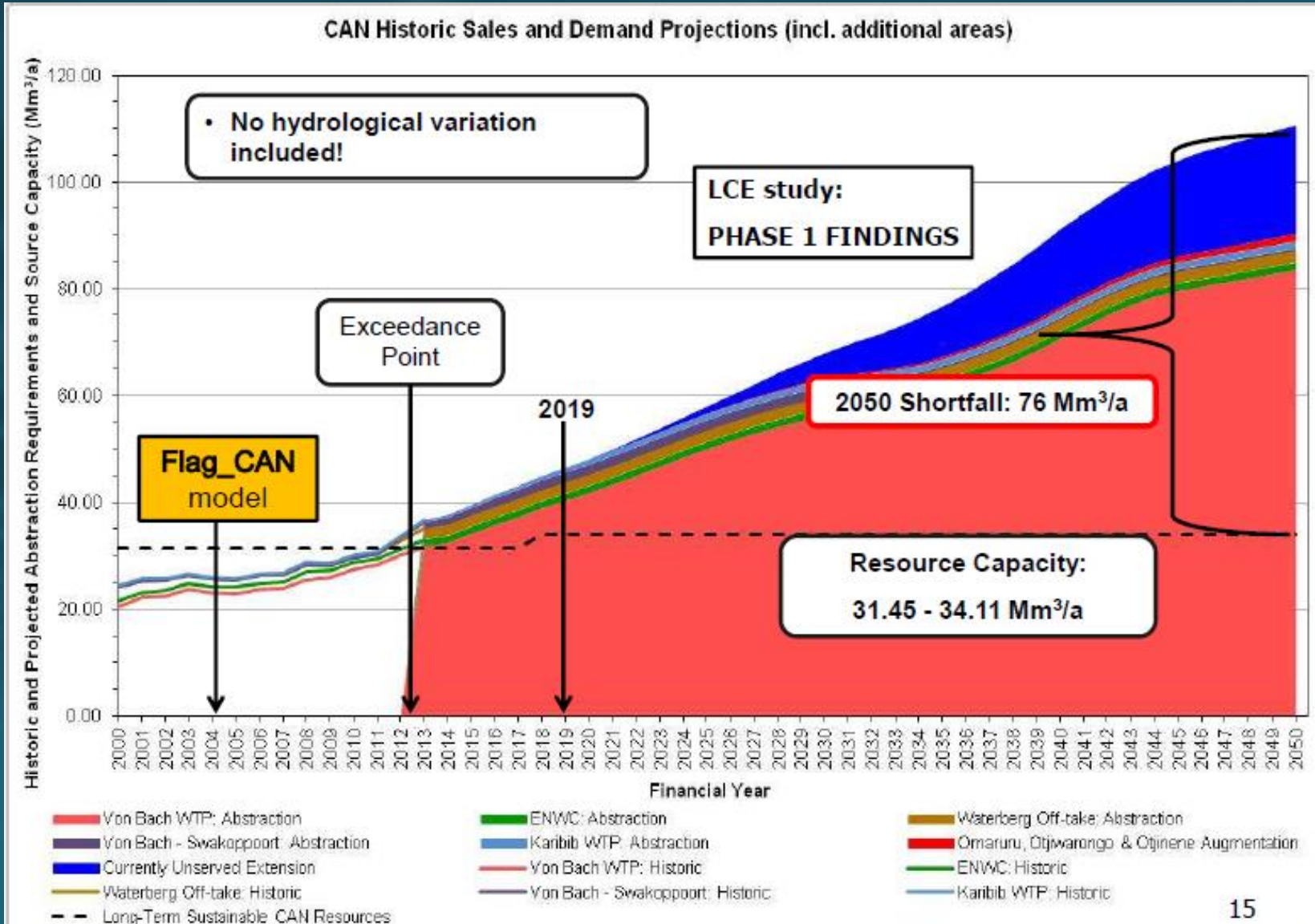


Stochastic Water supply system resilience model limit

Water supply system capacity exceeded

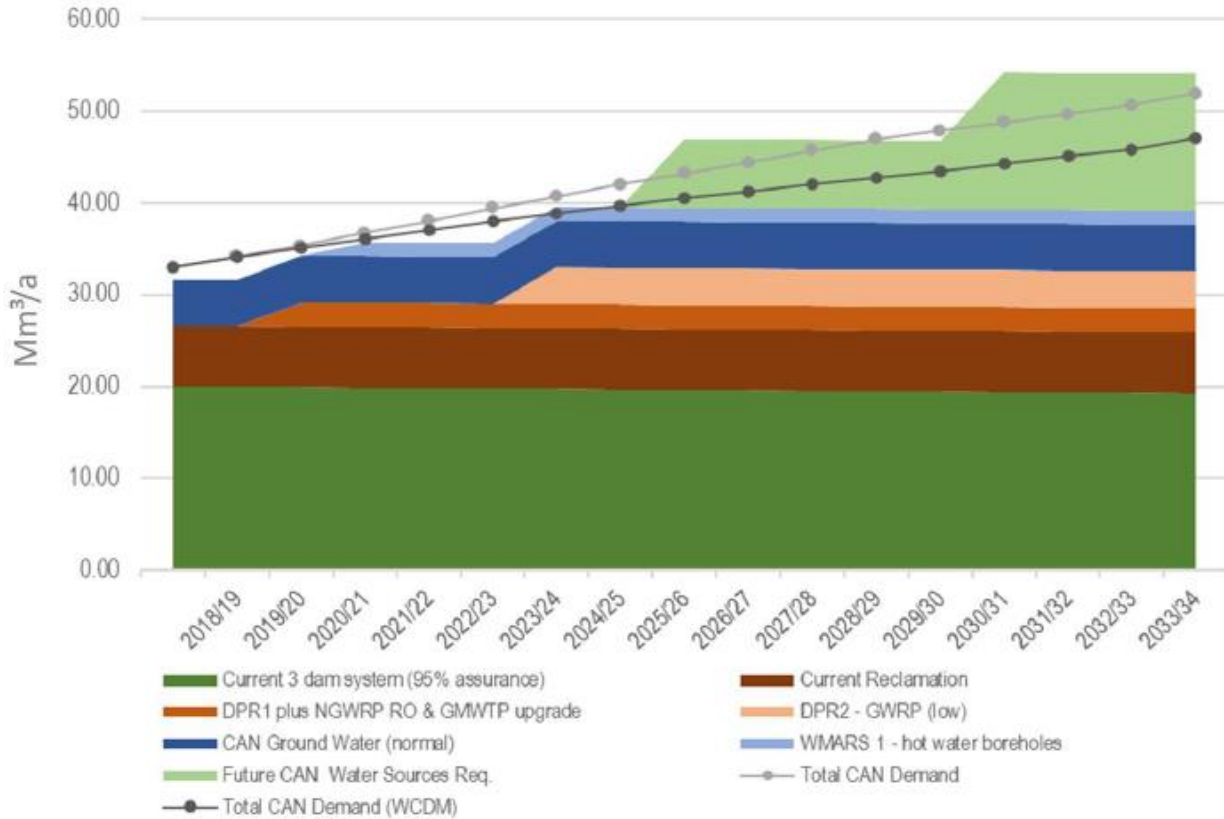
Water resource footprint exceeded

CAN Water Demand Challenge

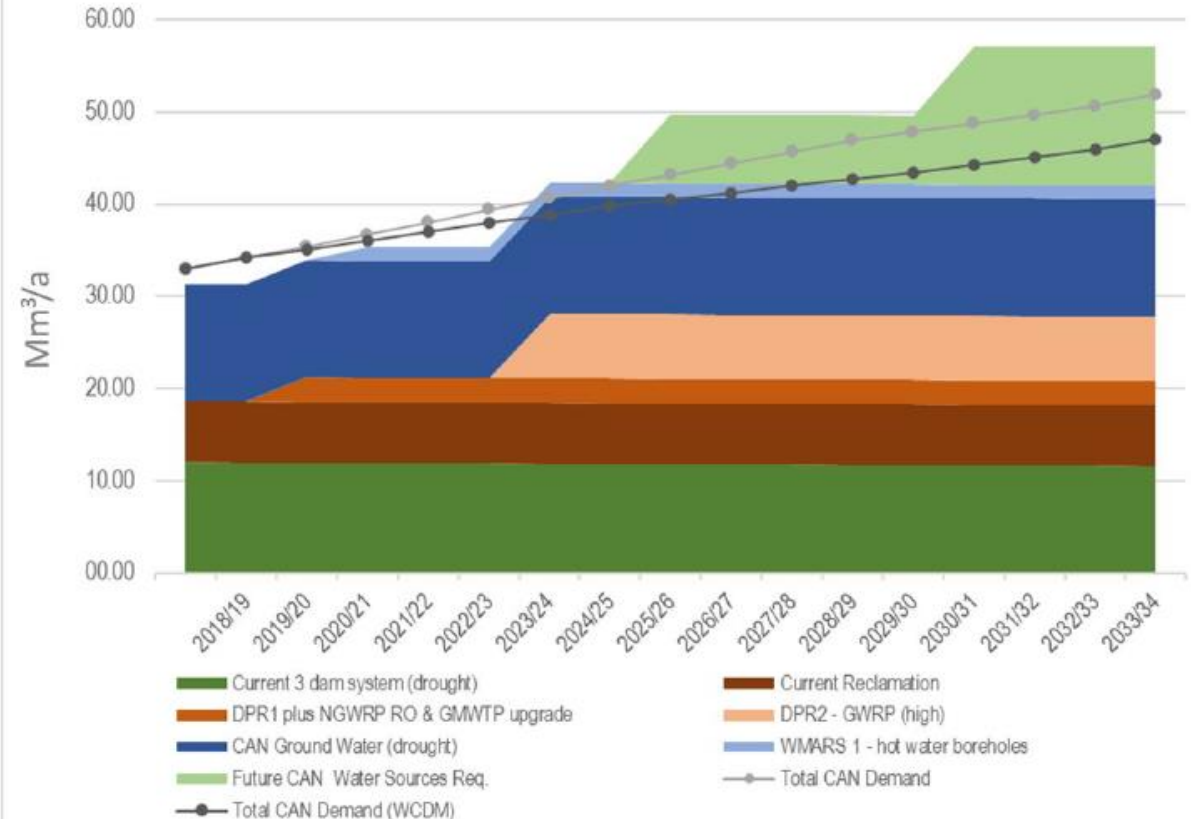


CAN Water Demand Challenge

SUO Basin Water Balance
Normal Conditions



SUO Basin Water Balance
Drought Conditions



Strategic Action Plan

Strategies Focus

An engaged community agenda

Operational excellence agenda

Sustainable finance agenda

Infrastructure agenda

Building Coalitions for Water Stewardship

Ensuring Healthy Water Institutions

Securing sustainable water management resources

Enabling Resilient Water Infrastructure

Action Areas

- Capacity Building
- Building a Water Alliance
- Policy forum
- Establish a Community Outreach Programme
 - Woman in Water
 - Urban Agriculture
- Water Awareness Programme
- Sponsorship

- Legislative and regulation review – “Implement the Act”
- Functional Water Regulator
- Customer relations and operational response system
- Transparent and Shared plans, programmes and budgets – bulk supply and distribution systems

- Tariff structure review
 - Minimum reinvestment thresholds
 - Economic tariff
 - Subsidy
- Capital funding and finance initiative
- Water investors conference
- Project preparation revolving fund establishment
- Administered cost and affordable infrastructure review

- Resolving long term bulk supply infrastructure solution in the public domain
- Effective pollution monitoring and control system
- Quality control and standards reinforcement
- Open defecation elimination
- Planned infrastructure maintenance

Suggested Action

- No new water intensive industries
- Incentivize industries to relocate outside the CAN – New and existing
- Fast early intervention procedures during drought – head early warnings

Suggested Action

- DWA to implement an effective CAN water management process
 - CAN workshop by 15 May annually: Water Scarcity Categories defined
 - CAN workshop: establish the sustainable water supply program for dry season
 - Endorsement of the IWRMP – ensure immediate implementation
 - All resources to be integrated: promotion of large water consumers of CAN to develop available local resources
 - The WDM efforts to be rolled out and fully implemented by other municipalities
 - All new developments and renovations: integrate water efficient sanitary appliances
 - EIA processes to ensure water efficiency included in EMP

Suggested Action

- Pollution risk of CAN water resources:
 - Acknowledge Upper Swakop is a closed system – cannot be drained naturally via Swakop River
 - Industries that would add an uncontrolled pollution impact are undesired – Policy
 - Wastewater Treatment Plants to comply with discharge standards by 2025
 - Open defecation reduced to minimum
 - Improve maintenance of sewer transfer infrastructure
 - Action plan for addressing polluted water resources – Goreangab impact on Swakoppoort, etc.
 - EIA Processes to evaluate pollution risk vs. mitigation thoroughly – USBMC a commenting stakeholder

Community feedback

- Feedback needed – comply with our function
- Contact: usbmcoffice@gmail.com
- Meeting with the Minister

Thank you