



Western Cape
Government

FOR YOU

Health is
everybody's
business

OVERVIEW
WESTERN CAPE GOVERNMENT HEALTH AND WELLNESS (WCGHW) RACE TO NET ZERO 50
ACTION PLAN

Dr Anwar Kharwa
Director: Facilities Management
Chief Directorate: Facilities and Infrastructure Management
5 November 2024

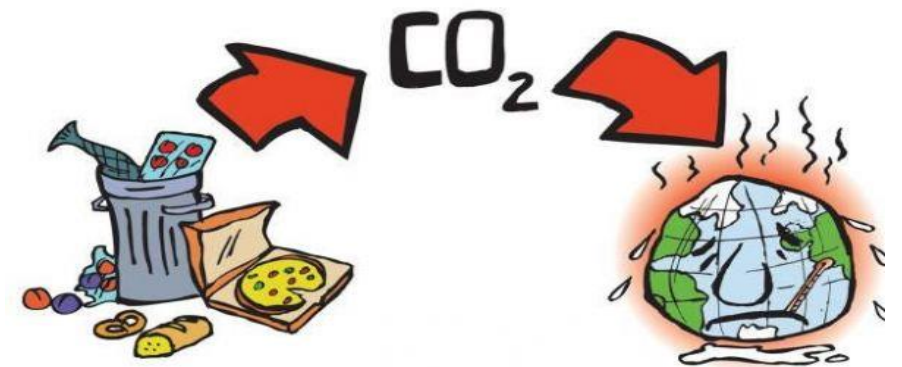
1. WCGHW Pledge: Global Green Healthy Hospitals – Health Care Without Harm
2. Climate Change Leadership and Governance
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4. WCGHW Waste Initiatives
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6. Training
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WCHW Pledge: Global Green Healthy Hospitals – Health Care Without Harm

Our pledge will be achieved through implementing the Western Cape Government Health and Wellness Race to Net Zero 50 Action Plan which is premised on the ten (10) Global Green and Healthy Hospital agenda goals:



Reduce Carbon Emissions by 20% by 2030



Global Green and Healthy Hospitals | Agenda Goals



Leadership

Prioritize environmental health as a strategic imperative



Chemicals

Substitute harmful chemicals with safer alternatives



Waste

Reduce, treat and safely dispose of healthcare waste



Energy

Implement energy efficiency and clean, renewable energy generation.



Water

Reduce hospital water consumption and supply potable water



Transportation

Improve transportation strategies for patients and staff



Food

Purchase and serve sustainably grown, healthy food



Pharmaceuticals

Prescribe appropriately, safely manage and properly dispose of pharmaceuticals



Buildings

Support green and healthy hospital design and construction



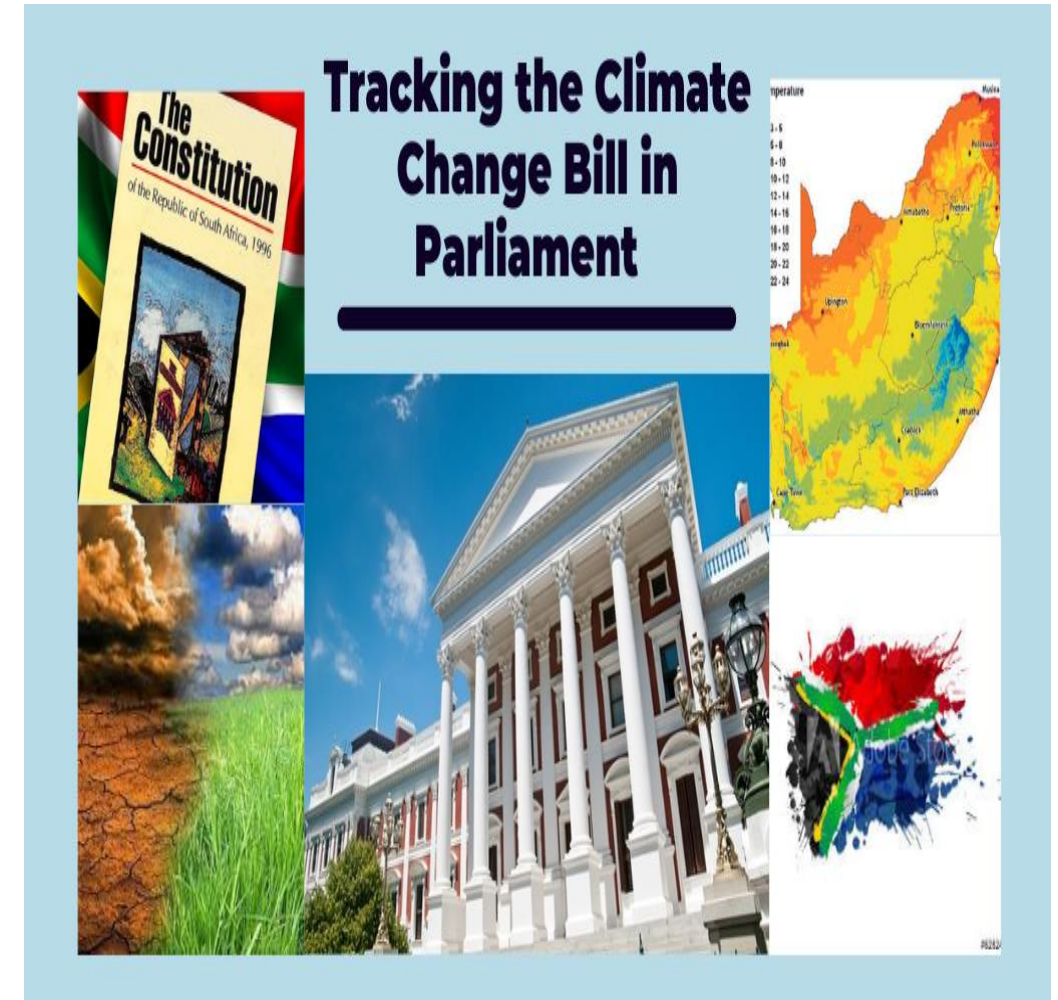
Purchasing

Buy safer and more sustainable products and materials

Climate Change Leadership and Governance

The department is an active participant in the following committees in process of developing Climate Change Policies and Strategies:

- The National Health Climate Change and Health Steering Committee
- The WCG One Health Steering Committee
- The WCG DEA-DP Climate Change Working Group



- A WCGHW Climate Change Committee has been established to implement the Race to Net Zero 50 Action Plan.
- A Deputy Director: Climate Change and Utilities Champion post has been filled. The incumbent Ms Levani Naidoo commenced duties 1 November 2024 and will be responsible for driving the WCGHW Race to Net Zero 50 Action Plan.



WCGHW Energy Initiatives

Energy: Hybrid Inverter Rural Primary Health Care (PHC) Clinic Turnkey Project

- 47 Hybrid Inverter installations completed at Rural PHC Clinics in 2023/24 (Including Ceres FPL).



- Feedback from Facility Managers is overwhelmingly positive.

- Plans in place to install Solar PV in 2025/26 at some of the Clinics.





4.1 Photovoltaic Systems at

- Red Cross Hospital
- Eerste River Hospital
- Paarl Hospital
- Mossel Bay Hospital
- Hermanus Hospital

Funding: WCG Climate Change PES Energy Fund



4.2 WCHW 2024 MTEC Energy Plan

- WCHW Energy Services Company (ESCO) Energy Savings Pilot implemented at Red Cross Hospital, Paarl Hospital and Eerste River Hospital.
- Total energy savings to date is 4 002 270 kWhrs.
- The total energy savings is enough to supply 285kWhrs to 13 759 homes for a year.
- **Total carbon savings to date is 3 921 245 Kg's.**
- **392 125 trees have been saved.**
- **Total savings is R 7 133 913.**
- 14 415 hours have been invested in skills development.
- 11 local Sub-Contractors and Suppliers have been utilized.
- Pilot is in process of being expanded to 12 hospitals in 2024/25.



WCGHW Waste Initiatives

Waste: Alternate Health Care Risk Waste Disposal System Turnkey Project



1. Alternate Health Care Risk Waste Disposal Systems installed at:

- Khayelitsha District Hospital
- George Hospital
- Paarl Hospital
- Worcester Hospital
- Karl Bremmer Hospital
- Red Cross Hospital
- New Somerset Hospital

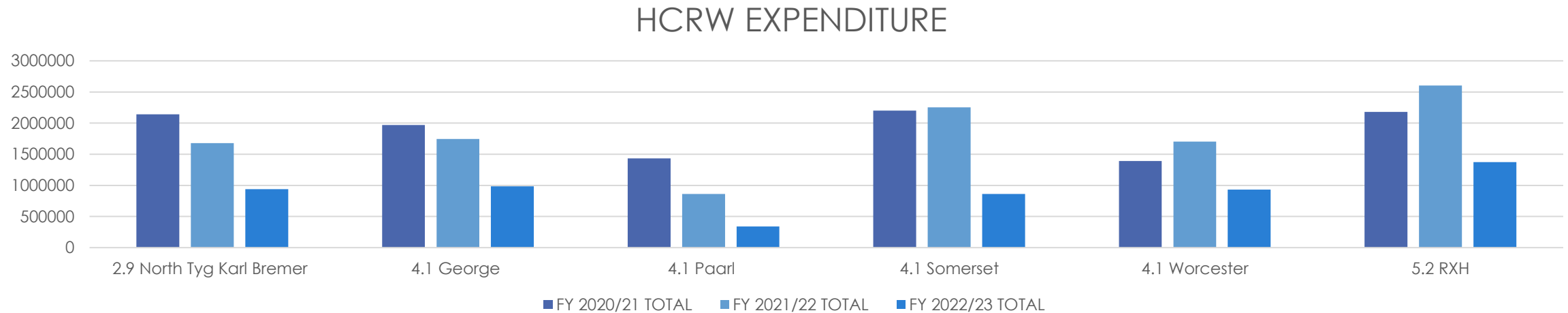


2. Converts Non-Anatomical Medical Waste into sterile disposable treated by-product which is environmentally friendly.

3. In process of engaging National Forestry, Fisheries and Environment to dispose of the sterile by-product as normal household waste.



4. The Non-Anatomical HCRW treated at Newster (NW) Systems has generated savings on operational budget at project sites.



5. There has been a 50% reduction in the total HCRW expenditure across the six hospitals in the 2022/23 financial year compared to the 2021/22 financial year.

Awareness Campaigns

Awareness Campaigns



1. Focus is on “Connecting, Collaborating and Co-creating” with the Directorate: Communications, the ESCO, Livewire (Energy Smart Metering), WCG DEA-DP, NDOH, and relevant stakeholders to implement a Climate Change Awareness Campaign which focuses on key initiatives being implemented across the ten (10) Global Green Healthy Hospitals Agenda Goals.



2. Focus is on sharing the weekly Energy Consumption in light of the Energy Challenge via the Directorate: Health Communications “Your Week in Health” notice.

Switch Off & Save

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Think of your environment, your community, and your pocket

SAVE ENERGY YONGA UMBANE

Take a shower in 5 minutes or less. Install low flow Shower Heads.

Only boil the amount of water required.

Turn off appliances not in use.

Turn off lights when not in use.

Replace inefficient lighting with LED.

Use natural daylight over artificial light where possible.

Keep thermostat at recommended levels.

Turn off geysers and urns when not in use.

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Training

1. Focus is on “Connecting, Collaborating and Co-creating” with the Provincial Development Centre, the ESCO, Livewire (Energy Smart Metering), WCG DEA-DP, NDOH, and relevant stakeholders to implement a Climate Change Training Program across the ten (10) Global Green Healthy Hospitals Agenda Goals.



PEOPLE DEVELOPMENT CENTRE WEBINAR INVITE

CLIMATE CHANGE MADE EASY

Content:

- An Introduction to the Western Cape Climate Change Response Strategy- Vision 2050
- Understanding climate change and the health sector
- How the health sector can respond to climate change
- Monitoring facility carbon emissions with a carbon footprint tool
- The Global Green Health Hospitals Network
- ESCO initiatives and Health Awareness Campaign

DATE: 14 October 2022
TIME: 12:00 – 14:00
REGISTER HERE: [\[REGISTRATION LINK\]](#)
ENQUIRIES: Mica Jackson (Mica.jackson@westerncape.gov.za)

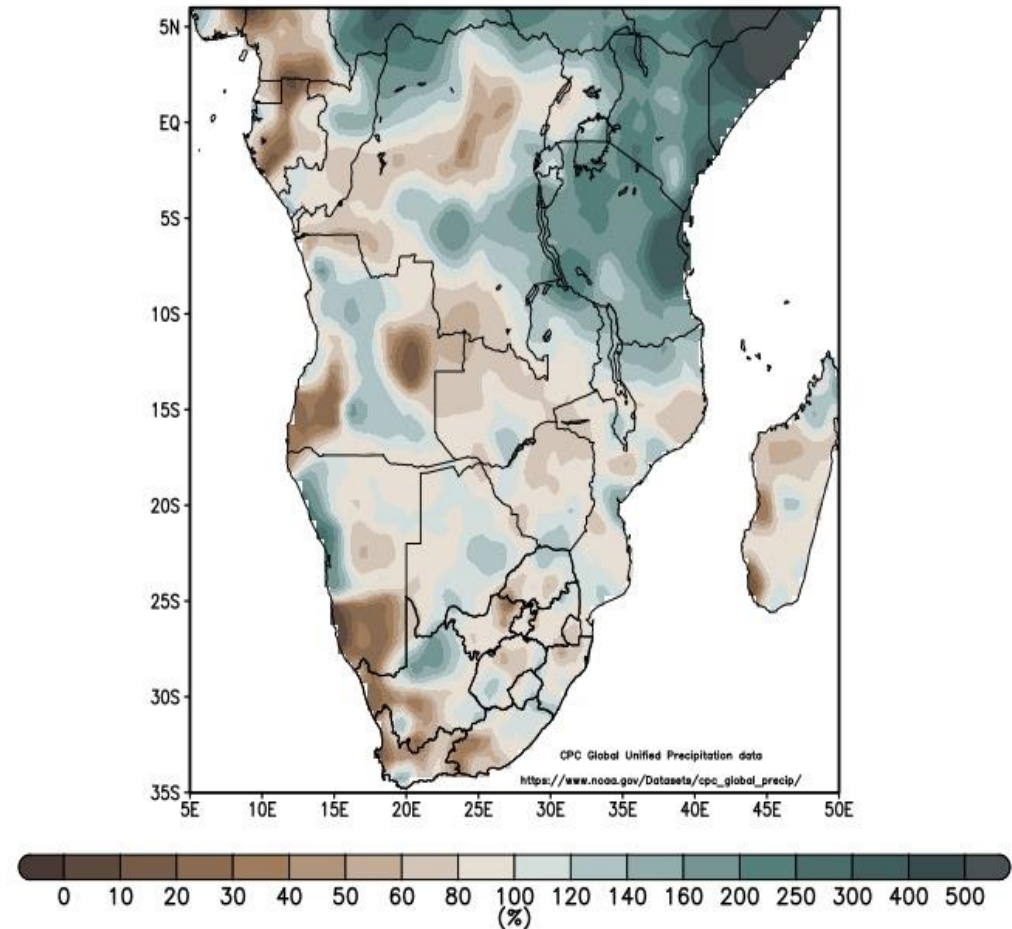
Monitoring and Evaluation

Monitoring and Evaluation: Key Initiatives



1. Implementation of the WCGHW Race to Net Zero 50 Action Plan deliverables is being monitored at the bi-monthly Climate Change Committee.
2. Implementation of transversal WCG Climate Change deliverables in the WCGHW Race to Net Zero 50 Action Plan is being monitored at the WCG DEA-DP Climate Change Governance Working Group and the WCG One Health Steering Committee.
3. Energy deliverables in the WCGHW Race to Net Zero 50 Action Plan is being monitored by the WCG Growth for Jobs (G4J) Core Energy Team.
4. Best Case Practice and learnings emanating from the implementation of the WCGHW Race to Net Zero 50 Action Plan deliverables is being shared with the National Health Climate Change and Health Steering Committee.

Rainfall (% of normal): November–December–January 2023/24
November–December–January long-term mean: 1981/82–2010/11



Finalization and Launch: WCGHW Race to Net Zero 50 Action Plan

1. Review comments received and update the draft WCGHW Race to Net Zero 50 Action Plan in November 2024.
2. Route the final draft WCGHW Race to Net Zero 50 Action Plan to the Head of Department in January 2025 for signature.
3. Launch the WCGHW Race to Net Zero 50 Action Plan in February 2025.



ACKNOWLEDGEMENTS

Acknowledgements



National Health Climate Change and Health Steering Committee, WCG G4J Core Energy Team, WCG DEA-DP Climate Change Governance Working Group, WCGHW Climate Change Committee, the FIM Energy Team, Dr Wayne Smith (Disaster Medicine and Major Events), Head Office Sourcing, the District and Sub-Structure Directors and teams, the Directorate: Forensic Pathology Services and IOA, the Directorate: People Strategy, the Directorate: People Development, the Directorate: Employee Relations, the Directorate: Communications, the Directorate: Health Intelligence, the Directorate: Emergency Medical Services, the Directorate: Financial Accounting, the ESCO, Livewire Smart Metering, the Directorate: Facilities Management (FM) Climate Change Transitional Team and both Project Administration and Support Teams.

Thank you