

ONTRACK

SOLAR PV SYSTEMS

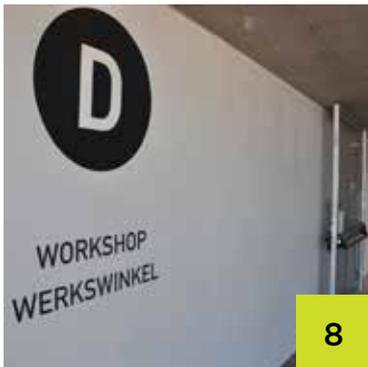
Improving energy efficiency in buildings

**GOVERNMENT
INFRASTRUCTURE**
Projects uplift communities

**ROAD SAFETY
AWARENESS**
Travel safely this Easter

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VISION:

To lead in the delivery of government infrastructure and related services.

MISSION:

The Department of Transport and Public Works delivers infrastructure and services to promote socio-economic outcomes and safe, empowered and connected communities.

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Please send us your feedback and/ or suggestions.

THIS EDITION

Infrastructure development remains integral to transforming the provincial economy and to stimulating economic growth and creating jobs. In this edition, we feature the good work being done by our Provincial Public Works branch to providing top-quality health, education and government-owned general infrastructure to residents of the Western Cape. Our contributions enable patients to access quality health services in their communities, learners and teachers to grow in secure learning facilities, and government departments to render services from accessible buildings.

Remember to practice all the basic road safety habits if you and your family decide to travel over Easter, as well as at every other time of the year. On page 15, we outline some of our key road safety focus areas. Please help us spread this important message. Your efforts will make a difference.

**Take care,
On Track team**

EDITOR'S NOTE



The Western Cape Government (WCG) has taken decisive steps to mitigate the risk and potential impact of drought-related municipal water supply disruptions on essential service delivery activities, to supplement the water supply at critical sites, and to reduce the WCG's overall water consumption. The efforts of all WCG departments and entities are being coordinated through a water business continuity plan (BCP) task team led by the Department of Transport and Public Works.

The BCP comprises a package of interventions at various time scales: demand-side interventions

to reduce water consumption and improve water efficiency, as well as supply-side interventions to supplement the supply to certain high-risk facilities and services. These interventions will help reduce the consumption of municipal water to free up supplies for other users, and help ensure that there is enough water at key WCG facilities for operational, drinking, hygiene, and fire safety purposes. The WCG intends to ensure that these facilities remain open and in operation in the event of Day Zero being reached in the province.

**Byron la Hoe,
Editor**



A total of 164 panels were installed at 9 Dorp Street.

Western Cape Government

The Department installed rooftop solar PV systems in four government-owned buildings during 2017. This R5,8 million investment brings clear long-term savings for the Western Cape Government, and will reduce the need to purchase grid electricity. Other benefits include a reduction in the provincial government's carbon footprint; the provision of skills training in renewable energy technologies; and targeted procurement from small- and medium-size enterprises.

A total of 345 PV panels have been installed at Vangate Shared Services Centre in Athlone. In central Cape Town, 240 have been installed at the Library Building in Alfred Street; 164 at 9 Dorp Street; and 51 at 27 Wale Street.



rooftop solar photo-voltaic (PV) systems

LONG-TERM ELECTRICITY SAVINGS



This initiative gives expression to the Energy Security Game-Changer of the WCG, the City of Cape Town, and the five largest non-metro municipalities to support the province's economic growth through energy security.

We believe that this project has the potential to encourage the implementation of similar PV projects in public and private buildings across the Western Cape for the benefit of all residents.

ABOUT THE ENERGY SAVING GAME- CHANGER

The aim of this game-changer is to generate power from low-carbon, sustainable sources to grow businesses and sustain households in the Western Cape. This will be achieved through a focus on enhancing the uptake of rooftop solar PV, encouraging residents and businesses to become energy-efficient, supporting municipalities to do better load management, and purchasing power from independent power producers (IPPs).

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New primary school in

Bonnievale

Earlier this year, a new primary school opened its doors to excited learners of Happy Valley in Bonnievale. The school is expected to be a catalyst for social and community development for many years to come.





New school offers a new beginning



“n Skool moet ’n veilige plek vir onderrig en leer wees, waar leerders hul potensiaal kan ontwikkel. Ons het nou ’n mooi skool waar hierdie visie ’n realiteit kan word.” (A school should be a safe space for teaching and learning where learners develop their potential. We now have a beautiful school where this vision can become a reality).

This is how Johannes Marthinus, principal of Bonnievale Primary School, described the new school building. The school opened its doors in January 2018. A total of 866 learners and 34 teaching support staff members are currently benefiting from this R62 million investment. The Department of Transport and Public Works started construction in June 2016 after the old school building was demolished.

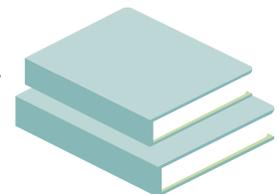
Marthinus, who has been at the school for 38 years, recalls how this investment has improved learning conditions. “The old school was built 40 years ago, and over the years, the structures became unpleasantly cold in winter, and too hot in summer. Teaching spaces were also small.

“Now, we are delighted to have better facilities. The classroom environment is better equipped and spacious. My deputies now have their own offices, we have staff rooms for meetings. We could not be more grateful,” he added.



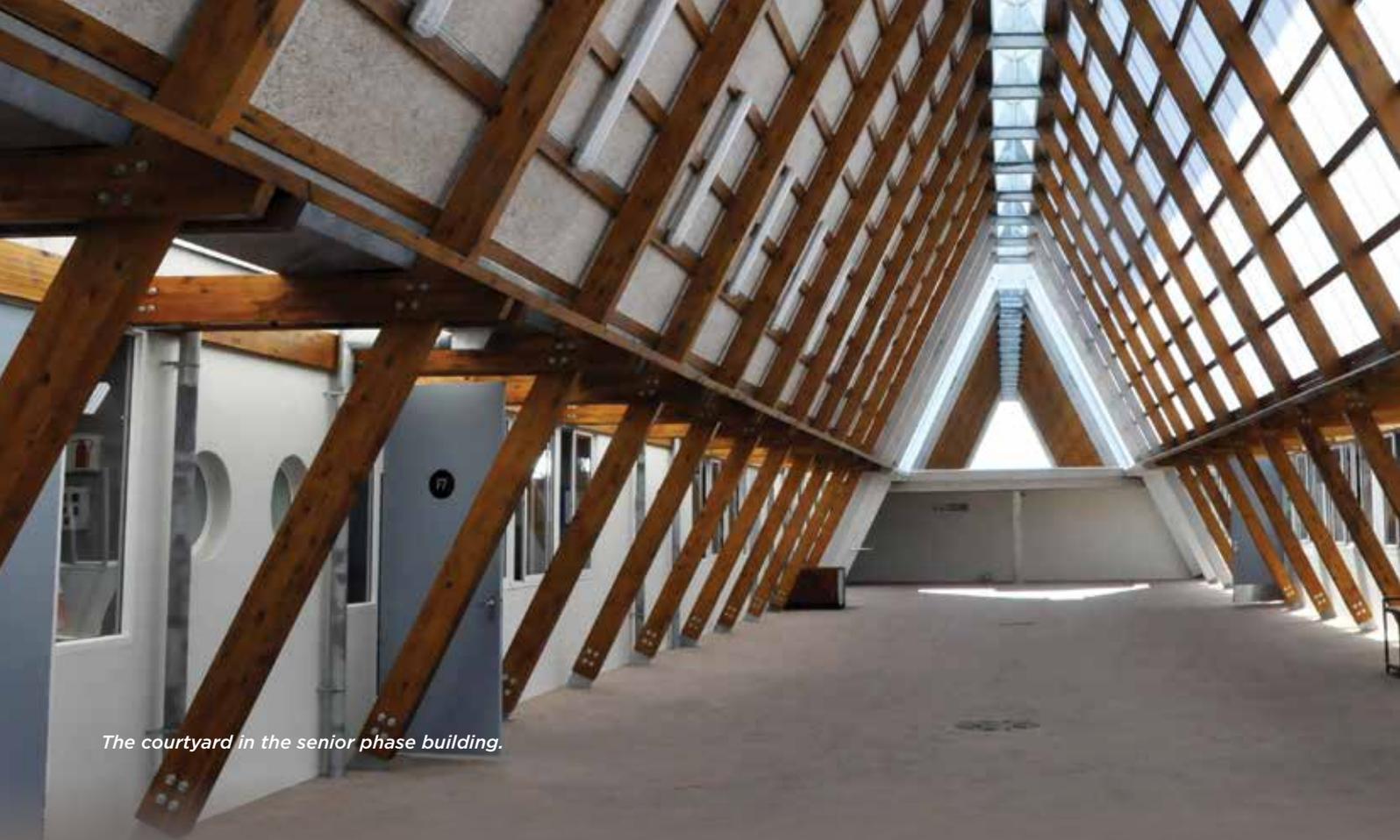
Teaching facilities at Bonnievale Primary School

- 32 standard classrooms (40 learners per classroom).
- Four Grade R classrooms (30 learners per classroom).
- Three multi-purpose classrooms for library and computer services, arts and culture, and handwork.
- A hall with toilet facilities.
- Administration building, and facilities for a supervisor.



Empowerment

- Through this project, several people from Happy Valley and surrounding communities have benefited from short-term employment and skills training.
- R5 million has been spent on targeted sub-contractor businesses.
- R3 million has gone to businesses supplying materials.
- R3 million has been spent on local labour.



The courtyard in the senior phase building.

A school where remarkable things happen

It aims to provide support and quality education to learners

The Western Cape Government is committed to ensuring that all children with special needs and disabilities receive an education that allows them to achieve their full potential. The new facilities at the Cheré Botha LSEN (Learners with Special Educative Needs) School in Bellville, led by a dedicated team of teachers and support staff, has provided many with a chance. And they already feel at home.

After being taught in temporary facilities in Stikland for several years whilst construction was under way, learners were delighted to finally move into their new school in January 2018. The school provides top-quality teaching for learners diagnosed with severe intellectual disability (SID) and autism spectrum

disorder (ASD). It makes provision for 165 SID learners and 130 ASD learners mainly from the northern suburbs of Cape Town.

“We, as teachers, choose to work here. Parents simply do not decide to have special needs children.”

Joey van der Westhuizen is the principal and leads a team of 29 teaching staff, including therapists, psychologists, nurses and general workers. She says the seven-year wait for a new school has made staff appreciate the

facilities even more. “The layout of the building caters for our needs, and careful provision was made so that learners feel at home.

“We, as teachers, choose to work here. Parents simply do not decide to have special needs children. Our secure facilities and access control measures mean that, when parents drop off their children, they have peace of mind that their children are safe. There is great appreciation all round for a space where we can provide support and quality education.”

The various teaching phase buildings are separated with courtyards. Each classroom is equipped with a holding room, a store room and a wash basin. There are many windows and open spaces. The project team of the Department of Transport and



New Cheré Botha LSEN School

The architecture of this school engages with the speculations of Fumihiko Maki on the nature of collective form. Maki's speculations focused on the design of authentic urban patterns which respond to the lifestyle, terrain, urban economies and contemporary challenges of societies and urban districts. For Maki, the character and coherence of villages which developed over long periods of time served as an exemplar of significant collective form at an urban scale.

Public Works worked hard with the school governing body and community steering committee to deliver a school that everyone can be proud of.

Features

- 29 classrooms.
- Specialised classrooms.
- Kitchen food store.
- Play equipment and bicycle store.
- General repairs store.
- Cleaner's store.
- Administration building.
- School hall.
- Closed circuit camera equipment.
- Swimming pool.
- Sports facilities.



The playground for foundation phase learners.



One of the specialised facilities.



The school hall.



The ablution facility.

Infrastructure upgrades in progress

We remain committed to investing heavily in health and education infrastructure projects to benefit communities and provide much-needed access to government services. *Road infrastructure projects are featured in our September newsletter.



HEALTH

(Information correct as at end February 2018)

PROJECT NAME

George Thembalethu Community Day Centre

Wellington Community Day Centre

Wolseley clinic

Vredenburg Hospital

Groote Schuur Hospital - kitchen floor replacement

Groote Schuur Hospital - forensic pathology institute

CONTRACT VALUE

R64 million

R4 million

R25 million

R124 million

R4 million

R281 million

ESTIMATED COMPLETION DATE

Early 2018

Mid-2018

Mid-2018

Mid-2018

Mid-2019

Mid-2019



EDUCATION

(Information correct as at end February 2018)

PROJECT NAME

George Thembalethu Secondary School

Umyezo Wama Apile High School

Silikamva High School, Hout Bay

Kraaifontein High School

Vredeloof Primary School, Kraaifontein

Qhahiya Secondary School, Hawston

Diaz Primary School, Mossel Bay

CONTRACT VALUE

R73 million

R75 million

R84 million

R63 million

R63 million

R60 million

R55 million

ESTIMATED COMPLETION DATE

September 2018

November 2018

November 2018

November 2018

November 2018

November 2018

March 2019



Improving healthcare services through collaboration

The **Red Cross War Memorial Children's Hospital** boasts more beds and significantly better services for critically ill and injured children now that the construction of the paediatric intensive care unit (PICU) has been completed. The hospital now houses 75% of all PICU capacity in the Western Cape. In addition to the funds raised by private individuals, corporate donors and the Red Cross Hospital Trust, the Western Cape Government invested R50 million in this significant project. The total amount raised for the project was R120 million. Additional storage, services, offices, on-site doctors' accommodation, and clinical support spaces have been provided. The PICU beds, nurse stations and service rooms have been designed to streamline work flow. Large windows allow staff members to monitor

patients at all times. In order to encourage the families of children to visit and be part of the healing process, family facilities have been built, including waiting areas, kitchenettes, parent sleeping rooms, and counselling rooms.

Vredenburg Hospital nears completion

The Department of Transport and Public Works is making good progress with phased upgrades and extensions to the Vredenburg Hospital to cater for the growing health needs of the West Coast District. This R124 million project for the Western Cape Department of Health was commissioned in March 2016 and is scheduled to be complete in May 2018. Work is being done in a way that does not interrupt ongoing health service delivery activities. When the project is complete, the upgraded hospital will be able to accommodate 80 inpatients. The project includes site works, upgrades to existing clinical and support service facilities, new staff accommodation, and a new administration building. Recently completed Phase 2 construction includes work on the administration building, theatre complex, sterilisation unit, laboratory, mortuary, 12-bed temporary paediatric unit, and support services (kitchen, cleaning, refuse, and laundry). The final phase of the project – the new paediatric unit, rehabilitation unit, bulk stores and registry – is currently under way.



New **District Six** community day facility opens

The newly built District Six Community Day Centre officially opened its doors this year. This R104 million project was commissioned for the provincial Department of Health in November 2014. The centre provides services from 07:30 to 16:30 for up to 750 patients a day from Salt River, Woodstock, Vredehoek and central Cape Town, including the beneficiaries of the redevelopment of District Six. The pharmacy has extended opening hours. The facility boasts specialised units for chronic disease, infectious disease, woman and child health, radiology, emergency treatment, oral health, and rehabilitation.





An artist's impression of the facility.

New Forensic Pathology Institute



A R281 million Department of Transport and Public Works project to replace the Forensic Pathology Services laboratory in Salt River is under way. A larger, purpose-built modern forensic pathology facility is being built at the entrance to Groote Schuur Hospital. This project is expected to be completed in mid-2019.

The Observatory Forensic Pathology Institute will provide Level 4 forensic services aimed at extracting, analysing and preserving the integrity of evidence for use by the criminal justice system.

The three-storey Institute will enable better integration of the work of the provincial Forensic Pathology Service and the National Health Laboratory

Service, coupled with facilities to support the University of Cape Town's academic training in the field. The end result will be an efficient and functional building for the Western Cape Department

"The Observatory Forensic Pathology Institute will provide Level 4 forensic services aimed at extracting, analysing and preserving the integrity of evidence for use by the criminal justice system."

of Health with low life-cycle building costs.

The facility will include 26 autopsy tables – four dissection suites with six tables each, as well as two teaching and training dissection suites. There will be 360 refrigerated body spaces, 180 admission fridges, and 180 dispatch fridges. In addition, the building will be able to accommodate up to 100 visitors to the bereavement centre per day; up to 10 waiting undertakers; and up to 20 students at a time.

The design incorporates natural light through glazed autopsy rooms and a courtyard that allows light deep into the working areas. The public areas have been designed to create a tranquil environment focused around outdoor green spaces.



Saving water in key government facilities

e The new Green Building at the Karl Bremer Hospital site in Bellville is saving an estimated 1,1 million litres a year of potable water through various water savings features installed by the Department of Transport and Public Works. A blackwater treatment plant makes it possible to reuse sewerage water in the heating, ventilation and air conditioning (HVAC) system, as well as in the sewerage flushing system. HVAC waste water is also harvested and reused. While storm water runs off most urban buildings into municipal drains, the Green Building has been designed to facilitate the infiltration of storm water into the ground.

a Die nuwe Groengebou by die Karl Bremer-hospitaal in Bellville spaar ongeveer 1,1 miljoen liter drinkbare water per jaar deur verskeie waterbesparingsfunksies wat deur die Departement van Vervoer en Openbare Werke geïnstalleer is. 'n Swartwater-behandelingstelsel maak die hergebruik van rioolwater in die verhitting-, ventilasie- en lugversorgingstelsel (HVAC), asook in die rioolspoelstelsel moontlik. HVAC-afvalwater word ook ingesamel en weer gebruik. Meeste stedelike geboue se afvoerwater loop in munisipale slote in – hierdie Groengebou is op só 'n manier ontwerp om die infiltrasie van afvoerwater in die grond te fasiliteer.

x Izixhobo ezifakelwe liSebe lezoThutho neMisebenzi yoLuntu zokukhongozela nokugcina amanzi kwisakhiwo esitsha iGreen Building kwisibhedlele iKarl Bremer eBellville zenza ukuba likwazi ukugcina kangangeelitha ezisisigidi esinanye (1,1 miliyoni) zamanzi okusela ngonyaka. Iplanti eqokelela amanzi amdaka yenza ukuba abe nokuphinda asebenziseke kwisistimu ewaphekayo, eyeventileyishini neye-HVAC ngokunjalo nakwimizi yangasese. Njengokuba amanzi emvula ephuma ezakhiweni aye kungena ezidreyini zikamasipala nje, iGreen Building yona yakhiwe ngohlobo lokuba amanzi angalahleki koko angene nzulu apha emhlabeni.



Western Cape Premier Helen Zille during a recent site inspection to the facility.

AMBITIOUS WATER-SAVING MEASURES

An estimated 25 600 litres of water a day is being saved after the Department converted 320 conventional water flush urinals in Western Cape Government-owned offices in the Cape Town city centre into waterless facilities. Old wash hand basin taps have been retrofitted with flow restrictors to reduce the amount of water they use. In addition, metered (push) taps and dual flush cisterns have been installed in certain bathrooms as part of the Department's office modernisation programme.

Keeping our roads safer this **Easter**



We are doing everything in our power to create safer roads for Western Cape residents and visitors throughout the year. We expect all road users to play their part by practising good road safety habits. This includes not drinking and driving, buckling up all vehicle occupants on every trip, not speeding, not overloading, not using a cellphone while driving, and not driving when tired. All road users carry a responsibility for road safety, and good driving and pedestrian habits are essential. We can help to prevent the unnecessary loss of lives on our roads if we all work together and show consideration and respect for fellow road users.

The Department conducts ongoing enforcement operations, awareness and education initiatives, and many other road safety interventions.

Driver fitness

We run our public transport compliance and fatigue management sticker project at least twice a year (during Easter and the December-January holiday period). Vehicles that have been tested and are in good order will be provided with a sticker that verifies the vehicle's fitness at that time. We call on drivers and operators of public transport vehicles to ask for a free safety check at Joe Gqabi Transport Interchange in Philippi. Pay careful attention to the condition of your lights, indicators and tyres before starting your trip.

Speed

Speeding plays a causal and aggravating role in many crashes on Western Cape roads. We encourage motorists to slow down. This will greatly reduce the likelihood of a horrific crash that could result in serious injuries and death. We will continue to address speeding through manual speed operations and Average Speed Over Distance camera equipment on various routes.

Alcohol

Our ongoing weekend alcohol roadblocks and random breath testing (RBT) project in the Overberg district continue to mitigate the risks of drinking and driving. If you're drinking, don't drive or walk. Help us to create booze-free roads. If you have friends and family who still drive under the influence of alcohol, please speak to them before they get into trouble with the law.

Pedestrians

We run various pedestrian awareness activities in schools and public spaces such as taxi ranks. We ask you to set a good example of safe pedestrian behaviour, at all times, wherever you are. As a driver, you can help to keep pedestrians safe by slowing down whenever you notice people walking.

Report any transgressions you notice to Provincial Traffic Services on 021 812 4581 or 021 946 1646.



Water saving starts with you!



Take short showers and shallow baths

A quick shower or a shallow bath is all that you need to save bucket loads of water.



Re-use your water

Water from your bath or shower can be collected in buckets and used to water the garden.



Reduce the flow of water

Turn taps on to a gentle medium setting rather than full blast.



Don't let the water run

Turn off taps when brushing your teeth, washing your hands and shaving.



Dirty car, clean conscience

If you must rinse your car, use a bucket of water rather than a hosepipe.



Keep your yard clean and dry

Sweep outside areas instead of hosing them down with water.

For more information visit: www.h2ohero.co.za



Western Cape
Government

BETTER TOGETHER.

Changing our habits so that we can
reduce our water footprint

BETTER TOGETHER