



The  
**CLEAN & GREEN**  
Free State Campaign

*Cleaning and greening our province with pride!*



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“ The Clean & Green Free State Campaign was born out of a desire to live in the Free State within a clean and healthy environment and not in one with litter all over the place. ”

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# GREENING OUR CITY, COUNTRY AND PLANET

The Clean & Green Free State Campaign







“ If we do not litter – if such a public mind shift could be achieved – then there would be so much less to clean up... ”

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# CLEAN AND HEALTHY ENVIRONMENT

The Clean & Green Free State Campaign





## Foreword

The Clean & Green Free State Campaign was born out of a desire to live in the Free State within a clean and healthy environment and not in one with litter all over the place. The reality is that often, the plastic bag seems to be the official flower of our otherwise beautiful province!

That is why in 2010 the Free State Business Bulletin, as a newspaper advocating business and development in the province, decided to initiate a liaison with possible stakeholders and role-players from all walks of life. The purpose of the liaison was to form an informal but purpose-driven common front to address the deteriorating environmental situation in the Free State. This effort fortunately, proved to be successful – and the rest is history, to which this publication is witness.



The Campaign is proud to announce that you will be able to follow our activities on our newly designed website, updating you on all the exciting developments and initiatives all around us! Keep up to date by visiting us on [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za) and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



You can also join the Campaign through its Facebook and Twitter pages.

“ The reality is that often, the plastic bag seems to be the official flower of our otherwise beautiful province! ”



“ Let us leave a positive legacy for which posterity will be grateful. ”

What we, at the Campaign, feel is crucial to the project in general, is that as Free Staters, we should become proactive and not litter in the first instance. If we do not litter – if such a public mind shift could be achieved – then there would be so much less to clean up. This remains our top priority. So please help!

Also critical at the inception of the Campaign, is the fact that we are dealing with the environment as part of the God’s creation, for which He mandated mankind with stewardship. Therefore, we need to acknowledge Him as He revealed Himself to us through His Son. Consequently, the meetings of the Campaign are always opened with prayer, asking for grace, guidance and blessing – which we are, in fact, experiencing in the Campaign.

On a practical level, the financial and moral support of the Free State Small and Medium Enterprise Development Initiative, as driven by the International Labour Organization, has been vital to the operation of the Campaign. We sincerely acknowledge that.

#### Three things remain to be said in brief:

- Firstly, sincere thanks to everybody who has been involved in and has supported the Campaign thus far. It is much appreciated.
- Secondly, everyone not yet involved – as a matter of fact, every Free State resident – please get involved! Your input is essential.
- Thirdly, let us, as Free Staters, forget the differences we may have and let us join hands to make our environment the best preserved in South Africa. Let us leave a positive legacy for which posterity will be grateful.

#### Johann Dannhauser

*Chairperson: Steering Committee  
Clean & Green Free State Campaign  
Bloemfontein*







The Clean & Green Free State Campaign





I'm a winner,  
I assist in cleaning up!



...TOGETHER WE  
CAN ACHIEVE SO  
MUCH MORE!

MANGAUNG  
METROPOLITAN  
MUNICIPALITY  
City on the move

Part of the  
Clean  
Free State  
Campaign

BULLETIN





## Getting to Know Us

From its inception and the official launch on 17 November 2010, the Clean Free State Campaign, as it was then known, has always been seen as an informal Public-Private Partnership with a wide variety of key stakeholders contributing to its aims and goals. This is as true today as it was then and still forms one of the core values underpinning the initiative, even after a scope-broadening name change to the Clean & Green Free State Campaign.

A salient feature of the Campaign is that it is action orientated and results-driven, striving emphatically not just to talk...but to do! Read on and you will see what we mean...we aim to get things done, whether we facilitate, incentivise, lobby, advocate or do it ourselves. Action is the catchword and we hope that what is to follow below will inform you of the results already achieved, as well as the Campaign's focus and resolve for the future.



Have a look at what we are doing at [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za) and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



Join the Campaign through its **Facebook** and **Twitter** pages...do it right away!

“Come on, join us and get your hands dirty...literally!”



**The aims of the Campaign are six-fold:**

- Creating awareness and initiating educational campaigns to assist in mobilising the local public proactively against littering;
- Assisting in mobilising the public to clean up around their own spaces, be it at home or in the workplace;
- Assisting in enlightening the public on the value of recycling plastic, glass, metal, electronic goods, etc;
- Assisting in educating the public on caring for the natural habitat and promoting greening activities;
- In this entire process, endeavouring to reduce our carbon footprint as much as possible; and
- Creating incentives for entrepreneurship and job creation through green activities.

Under the chairpersonship of the Free State Business Bulletin and managed by a Steering Committee, the Campaign is being driven in informal conjunction with key role-players and partners.

Have a look at who our collaborators are in the section entitled: 'Our Partnerships' below. We are thankful to all of them for their inputs and are proud to be associated with them – together we can achieve so much more!



To get things done, one needs to organise. The Campaign gets the job done through Working Groups concentrating on various localities and activities.

**The activity and locality-based Working Groups, each with a convenor at the helm, are:**

- A Working Group for Marketing and Awareness;
- A Working Group for Recycling and Pyrolysis Plants;
- A Working Group for Re-Use and Up-Cycling;
- A Working Group for Happy Valley;
- A Working Group for the Matjhabeng Municipal Area;
- A Working Group for the Bloemfontein Central Business District; and
- A Working Group for Heidedal.

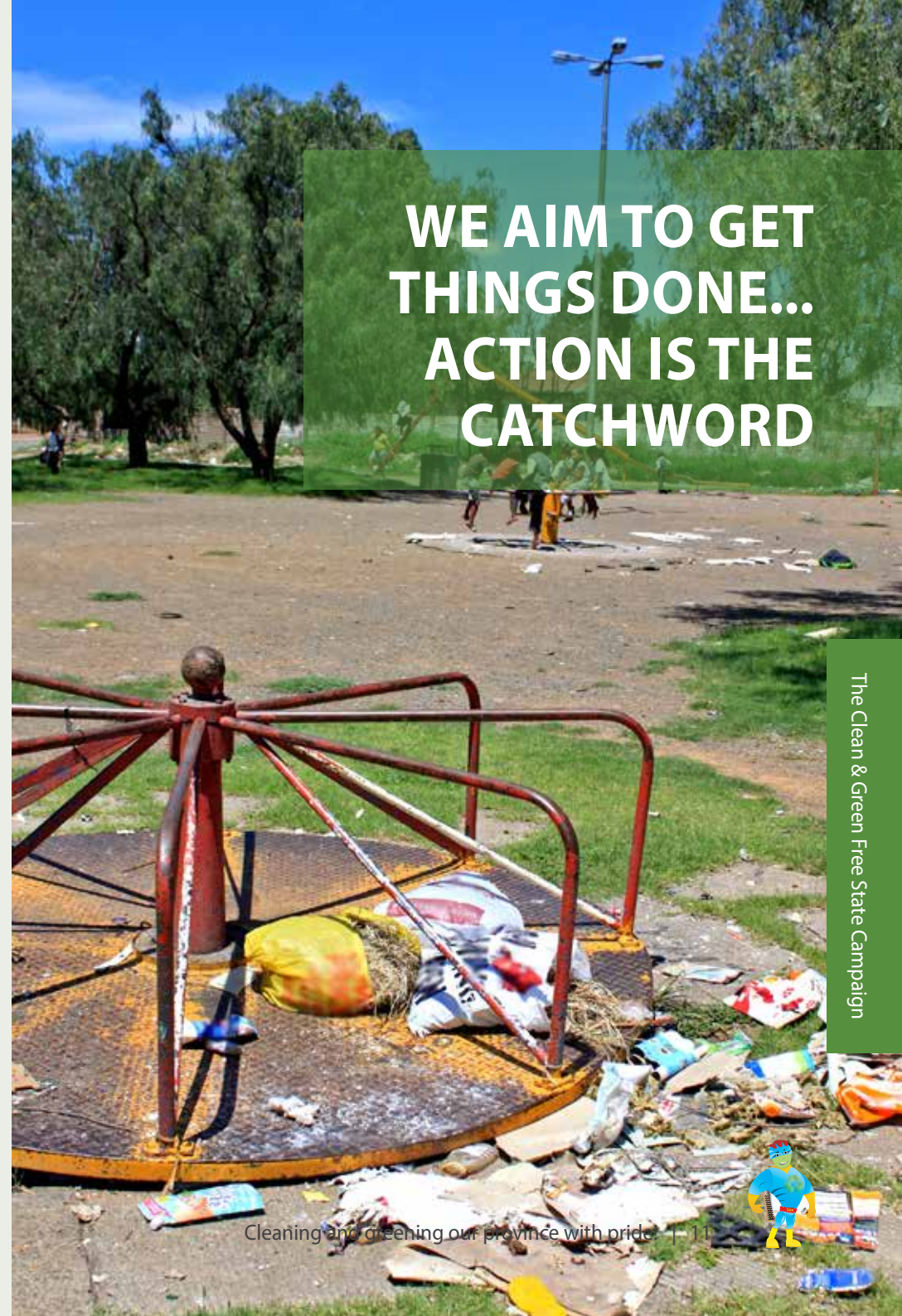
If you live in any of these areas or can contribute to any of the topics covered by the working groups, page to the last part of the booklet now...and join up! Read on and see who you can contact; they are waiting for your calls!



“ A salient feature of the Campaign is that it is action orientated and results-driven, striving emphatically not just to talk...but to do!! ”

Of the utmost importance is the fact that the Campaign is pointedly designed not to interfere with the legal mandate of governmental authorities in any governmental sphere pertaining to environmental and municipal management. The Campaign aims to be of assistance wherever it is needed and its participation appropriate. The Campaign operates firmly outside the political arena or any terrain legally out of bounds. The aims and activities of the Campaign correspond with national policies on waste management and care for the environment, as well as being applicable to provincial authorities and municipalities.

Even though the aim of the Campaign is to expand to cover all municipalities and communities in the Free State, it is thus far active only in the Mangaung Metropolitan Municipality and in the Matjhabeng Municipal Area; however, watch this space!







# CHANNELING CORPORATE SOCIAL INVESTMENT FUNDING





## Getting Input from Everywhere: Our Partnerships

As planetary citizens sharing finite resources and spaces, we should realise that if there is one area where formal or informal partnerships matter, it is in the world of environmental management. Whether being from government institutions – creating conducive policy and legislative environments; from the corporate and business sector – channelling corporate social investment funding; from academic institutions adding research muscle or from individuals adding real physical muscle, pitching in matters and that is what the Campaign is all about.

**The Campaign is proud to call the following institutions its partners and would love to add your name to the list!**

- Free State Department of Economic Development, Tourism & Environmental Affairs
- The Mangaung Metro Municipality
- Free State Business Bulletin
- The Central University of Technology
- The Centre for Development Support, University of the Free State
- The Mangaung CBD Hawkers Association
- The Towers of Hope Leadership Foundation
- The Free State Small and Medium Enterprise Development Initiative, (International Labour Organization)
- EnviroTech SA
- Pick n Pay
- BloemSec
- Cumira Green Solution Developers

Have a look at what we are doing at [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za)  
and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



Join the Campaign through its **Facebook**  
and **Twitter** pages...do it right away!

“...from academic institutions adding research muscle or  
from individuals adding real physical muscle...”







**CLEAN UP YOUR  
OWN IMMEDIATE  
ENVIRONMENT  
FIRST**





## Cleaning Up and Keeping it Clean

Let's face it, even if we do not know the first thing about recycling, the green economy, environmental management and other terms bandied about, we all know about litter. We see it as we drive to work or home; we see it at work and at home and heaven forbid, we do it at work and at home! When looking at all of the environmental challenges facing us on the international, national and local level, the easiest to grapple with is littering.

If you are guilty of littering...stop...and if you are irritated with it, get involved in cleaning up and keeping your environment clean. It is the one area where we can all pitch in and get easy and clear results. Like charity, the drive against littering begins at home...both the locality and the mindset.



Have a look at what we are doing at [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za) and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



Join the Campaign through its **Facebook** and **Twitter** pages...do it right away!

“...we see it at work and at home and heaven forbid, we do it at work and at home!”



# CLEANING UP IS NOT JUST CLEANING UP

“ If you are guilty of littering...stop...and if you are irritated with it, get involved in cleaning up and keeping your environment clean. ”

Clean up your own immediate environment first and then move out in ever widening circles, just like that drop in a pool of clean fresh water! Get the picture? Good! So does the Campaign!

The Campaign is proud of the excellent work that has been done through its facilitation and incentivising efforts as far as cleaning up the environment is concerned. Cleaning up is not just cleaning up. It is where recycling and the creation of many green employment opportunities start – the first link in a strong green chain.

The Campaign would be the first to admit that cleaning up is the easy part; it is keeping the environment clean that is the real challenge! This is again where the importance of partnerships emerges. The Campaign invites individuals, businesses, churches, NGOs and all others to come on board...and stay on board. In keeping with its action-oriented values, the Campaign has been involved in cleaning up interventions in a number of places. Have a look!





## Heidedal

Once a proud neighbourhood with clean streets and public spaces, safe parks and well-maintained public sports amenities, Heidedal today is a littered, dilapidated and crime-ridden area. Waste removal seems to be a pressing challenge in terms of municipal service delivery. The area around and inside the Billy Murison Stadium, for instance, is packed with illegally dumped waste with this once often-used sports centre of no use to the public in its present state.

Over the past three years, the Campaign has conducted several clean-up operations in Heidedal, as well as holding a number of public education meetings on the environment at churches in the area. However, sustainability has proved time and again to be a problem, with an apparent lack of public will and cooperation being the main underlying causes. Municipal planning and budgets should definitely also reflect the seriousness with which this problem should be addressed.

One resident of Heidedal who has a heart and passion for her local community, is Brenda Buys. Brenda is doing her level best to clean up in Heidedal, but she is encountering serious practical obstacles. Local residents seem not to display pride in their environment and are letting things go from bad to worse. Brenda is sending out an urgent signal for help, cooperation and synergy to improve the environmental situation in Heidedal. See our Join Us pages for her particulars.

“ Over the past three years, the Campaign has conducted several clean-up operations in Heidedal,... ”







## The Bloemfontein Central Business District

The Central Business District of Bloemfontein plays host to many entrepreneurs, both formal and informal; many commuters and shoppers; and many residents, again both formal and informal. This heavy traffic of people brings with it all of the dangers of littering and pollution and the state of this busy area often leaves a lot to be desired. Again, the Campaign, in co-operation with its partners, has tried its utmost to make a difference.

In this regard, the Reverend De la Harpe le Roux, of the Towers of Hope Leadership Foundation, has taken the lead and serves as a beacon of light in the area. The Foundation's clean-ups of Bloemspruit in the lower Central Business District, as well as other recycling and clean-up operations need special mention. One businessperson in the Bloemfontein Central Business District who has steadfastly supported De la Harpe and is definitely playing his part is Pieter van Rooyen, the general manager of the Protea Hotel Bloemfontein Central. He has introduced, and is funding, a consistent clean-up and security initiative in the vicinity of the hotel's premises, with promising results.

We express our sincere appreciation to them and all other supporting business people in Central Bloemfontein.

The Towers of Hope Leadership Foundation has, however, gone further and has introduced five business-sponsored and branded Cleanup Teams operating in the following areas in Bloemfontein once or twice a week, depending on the need: Heuwelsig from the Water Tower to Lettie Fouché School / the Premises of MediClinic / the Entrance to Tempe on Dan Pienaar side / Memoriam Road from DIY Superstore to the Uitsig turn-off / iMvula Security. Any business interested in introducing a similar team in its area, can contact De la Harpe le Roux using the detail at the back of this publication.





## Recycling – Let's Use it Again!

With 2,8 million tons of waste land-filled each year in South Africa and less than 10% of it being recycled, it is very clear that South Africans are nowhere near well educated and practice oriented when it comes to recycling. Just have a look at the following staggering figures!



**REDUCE, RE-USE,  
RECYCLE AND  
RECOVER**



It is estimated that every South African generates between ½ and 2 kilograms of waste every day – and remember, we are about 50 million in this beautiful country of ours. Face it – that is a lot of waste!

South Africa boasts 2 000 waste disposal sites, but in 2009 only 27% of them were licensed to receive and process waste. In 2010, approximately 90% of urban households and 27% of rural households had access to waste removal services, with the South African government endeavouring to raise the figures to 95% and 75% respectively by 2016. Even though 80% of all South African municipalities have initiated recycling initiatives, most of them are struggling to sustain their efforts.<sup>1</sup>

As far as landfill sites are concerned, the Free State is undeniably facing a ticking ecological time-bomb. The Free State has 76 landfill sites of which 38 are licensed in terms of the National Environmental and Waste Act of 2008, but even the licensed sites are not adhering to the prescripts of the Act. Landfill sites in the province hardly ever have effective access control, with fences around the sites removed or vandalised and recycling efforts by waste-pickers not regulated and controlled.

It is, however, not just municipalities which are failing in their regard for the environment. The public and businesses contribute to the deteriorating situation by not adhering to municipal by-laws and regulations, even dumping dead animals and medical waste at landfill sites.

Uncontrolled waste-picking adds to the mix, leading to conflict between waste-pickers and crimes consequently being committed. Families with infants live on landfill sites in extremely dangerous and unhygienic environments.

**Immediate and far-reaching intervention in this regard is crucial and must address the following:**

- Adherence to all national legislation by municipal councils;
- Education of the public regarding recycling and the proper utilisation of landfill sites;
- Effective law enforcement at landfill sites;
- Pressure on all agencies responsible for environmental management; and
- The media to play a watchdog and educational role pertaining to issues of waste management and recycling.

“...every South African generates between ½ and 2 kilograms of waste every day...”

<sup>1</sup> Republic of South Africa. Department of Environmental Affairs. National Waste Management Strategy 2011. ([https://www.environment.gov.za/sites/default/files/docs/nationalwaste\\_management\\_strategy.pdf](https://www.environment.gov.za/sites/default/files/docs/nationalwaste_management_strategy.pdf))





“...few of us actually take it seriously and act on it! Well, the Campaign does – have a look.”

Metropolises, secondary cities and larger towns (falling into municipal categories A, B1 and B2) are supposed to have programmes in place to ensure the sorting of waste before removal – this will align with the aim of the Polokwane Declaration in ensuring that at least 25% of all recyclable materials are kept out of the landfills of South Africa, and that by 2022 no waste reaches any landfill site at all. <sup>2</sup>

Is this at all possible? Yes it is! In Sweden, recycling is done so effectively and the waste material used for energy generation consumed so completely, that the country has run out of waste and now has to import waste from Norway in order to keep energy-generating plants running. Imagine that! That leaves us lagging far behind and the Campaign aims to do something about it.

Even though we are bombarded with information on the topic, few of us actually take it seriously and act on it! Well, the Campaign does – have a look.

<sup>2</sup> Republic of South Africa. Department of Environmental Affairs. National Waste Management Strategy 2011. ([https://www.environment.gov.za/sites/default/files/docs/nationalwaste\\_management\\_strategy.pdf](https://www.environment.gov.za/sites/default/files/docs/nationalwaste_management_strategy.pdf))



The Clean & Green Free State Campaign



## Kestell Residence Recycling Project

As we are merely borrowing the planet from future generations, it is only right that generations to come get involved in environmental actions early on, thus making participation by the youth in Campaign driven efforts critically important.

### Enter the students!

At the Kestell residence on the campus of the University of the Free State an innovative recycling project has been initiated by the resident students. Residents are recycling all their waste according to paper, plastics, glass and other materials. The project leader is Nadine Otto, daughter of environmental entrepreneur Kobus Otto from Kempton Park, Gauteng. Kobus sponsored the wheelie bins used in the project.

It took a while to get the project up and running, with Nadine having to obtain the necessary approval from the residence and university authorities, as well as buy-in from the hostel residents. However, the project is currently on track and on average, six bags of recyclables are collected from the hostel by a waste management firm each week. All project developments are closely monitored and statistics kept of progress made.

The potential for growth of the project, based on the pioneering work done at this one hostel, is great; the other residences on the University of the Free State's campus are the obvious next targets.

The Campaign is proud to be associated with these innovative students!



## Establishment of Pyrolysis Plants in the Free State

A what? Never heard of it? Let's have a look at this groundbreaking technology with its watershed potential.

In layman's terms, a pyrolysis plant can best be described as a multi-functional installation able to process different waste materials, such as glass, plastic, paper, wood and rubber into secondary products; for example, pellets, charcoal and printing paper. It can also be constructed to produce gas for generating electricity in different ways, depending on its customised design. There are currently various models, with varying capacities, on the market to be found in operation in the United States, Germany, China and other countries, but also in localities in South Africa. It can be quite a large machine!

A processing plant, on the other hand, is a smaller machine processing only one type of waste, such as plastic (or PET as it is known in the recycling industry) into various secondary products. Given the pace at which technology develops nowadays, it goes without saying that the technology of pyrolysis and processing plants is developing rapidly, which inevitably means that such plants will become more and more affordable.

“ ...the recycling sector could be meaningfully uplifted and regulated. ”



# GROUNDBREAKING TECHNOLOGY WITH WATERSHED POTENTIAL

It should, however, be noted that generally tyres, glass, e-waste, medical waste and hazardous materials are not catered for by pyrolysis plants but need specialised treatment and processing as specific waste types.

A glaring weakness in the recycling industry in the Free State is that almost all recycled waste is exported from the province to Gauteng, KwaZuluNatal and other destinations. This means that money and potential jobs and entrepreneurial opportunities are lost to the province.

The Campaign has come to the conclusion that through the establishment of pyrolysis and processing plants in the Free State much of the recycled waste, currently assembled in the province and exported to other centres, could rather be profitably processed at its own plants. Such a development could, in fact, revolutionise the recycling sector in the Free State. Better prices could be paid to street pickers and other role-players active in the sector, thus enhancing job creation and entrepreneurship. In so doing, the recycling sector could be meaningfully uplifted and regulated.

A turning point in the waste sector in the Free State could be brought about, with a meaningful impact on the provincial economy. Consequently, the Campaign has done much research into, and spent time on exploring the viability of pyrolysis and processing plants on Free State soil. As a matter of fact, a breakthrough in this regard is foreseen in the near future!





## Brandwag Social Housing Project

As part of its ambit of activities, the Campaign has played a pivotal role in founding a recycling component of the Brandwag Social Housing Project. This housing project comprises 1 150 flats in a complex in Brandwag, Bloemfontein. This world-class recycling programme for high density accommodation stems from a bid by the Free State Social Housing Company to promote sustainability and a green economy.

For this reason, a recycling clause has been incorporated in the lease agreement of each tenant in the complex and is so designed that it distinguishes the Free State Social Housing Company from any other social housing company in South Africa and even the world!

The Free State Social Housing Company team on site is actively demonstrating to households the environmental value of reducing, re-using and recycling waste wherever possible and disposing of this waste responsibly. Tenants are required to separate recyclable waste – paper, plastics, glass and metal – from non-recyclable waste at household level. Two separate waste bins for recyclable and non-recyclable waste are provided at communal waste-gathering areas at each block of flats. The recycle bins are clearly marked and provide all the necessary information for tenants to make a success of the recycling programme.

The roles of the Centre for Development Support at the University of the Free State and that of the Campaign, in collaboration with the Free State Social Housing Company, are acknowledged. The programme is facilitated through sponsorships and donations from the private sector, in particular the BCF Property Group, Kobus Otto Waste Consultants and Rat Race Waste Recyclers.



## Recycling at the Central University of Technology

An innovative recycling project, started three years ago by the Central University of Technology's Faculty of Health and Environmental Sciences in order to support students financially, is now yielding rewarding results.

When the project commenced, only printable paper in the Faculty was recycled on a monthly basis – it being the most valuable and widely used paper. This year, however, the Faculty has also started collecting newspapers for the same purpose. Students from the Central University of Technology's extended programme now assist with the monthly sorting of different kinds of paper, before it is transported to a nearby recycling centre.

The income generated by this project is used to supplement the budget for the extended programme, leading to a marginal subsidisation of students' tuition fees and book costs. The Faculty is currently considering extending the programme to the rest of the campus, carrying the message of caring for the environment.

For more information, or to get involved in the project, Ilze Von Gericke can be contacted on 051 507 4062 or at [ivongericke@cut.ac.za](mailto:ivongericke@cut.ac.za)

“ An innovative recycling project, started three years ago...is now yielding rewarding results. ”

# PUT WASTE IN THE RIGHT PLACE

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# LET'S NURTURE OUR ENVIRONMENT

The Clean & Green Free State Campaign





## Greening our Environment

As Free Staters we are spoilt with beautiful countryside, as well as open spaces in residential areas that could really add to our quality of life and the enjoyment of the outdoors. But do we properly utilise these features?

No! We often pollute and litter them, neglect them and leave them to be abused as dumping sites, hubs for criminal activities and the creation of fire hazards.

Let's take back our open spaces, green them, nurture them and enjoy them!



Have a look at what we are doing at [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za) and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



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“ Let's take back our open spaces, green them, nurture them and enjoy them! ”





## Special Environmental Project in the Welkom Residential Area

Over the period of 18 December 2012 to 4 January 2013 a special environmental project was implemented in wards in the Welkom residential areas of Bronville, Hani Park and Thabong. It was done under the auspices of the Community Work Programme, with Pastor Peter Jooste of Mercy Life Community Projects as project coordinator and linked to the activities of the Campaign.

Executed by 409 participants, the project focused on home-based care, the environment, agriculture, recycling and security. The main emphasis was on cleaning up the entrances to these residential areas, but dumping sites and community gardens were also tended to; communal gardens at public facilities maintained; recyclable goods collected and public facilities guarded.

Dumping sites were searched for recyclable waste material. Participants were grouped together, collecting glass and plastic bottles and trying to achieve set targets in the process.

The project was a great success, bringing relief in dire cases of need, and showing the difference which a concerted and well-executed effort can make in the lives of communities and in those of individuals in need.

“ The main emphasis was on cleaning up the entrances to these residential areas... ”



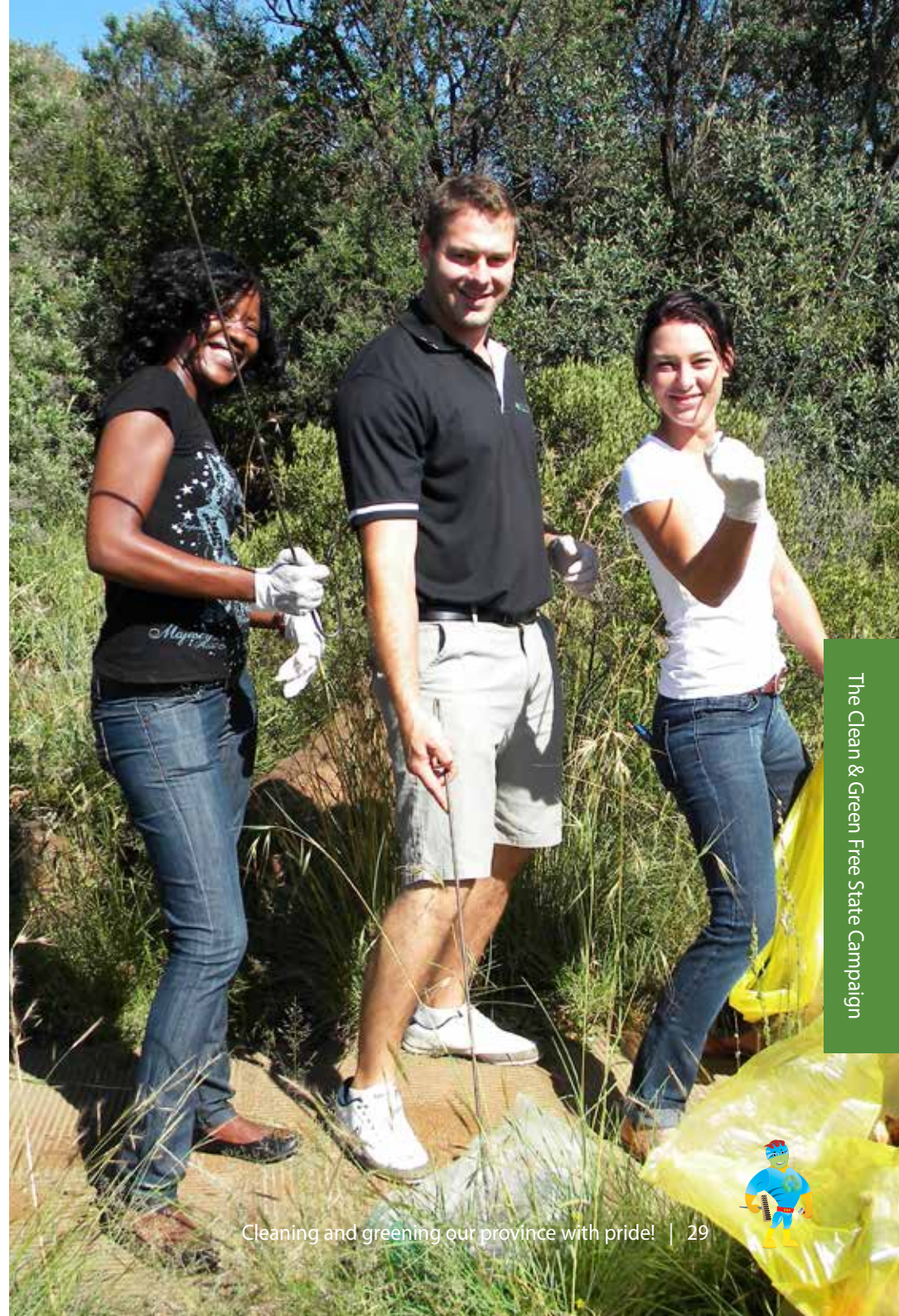
“Wake-up! We need to look after them, nurture them and multiply them.”

### The Happy Valley Project

Bloemfontein is not called the City of Roses for nothing and annually the streets bask in the splendour of the rose gardens of the city – both private and municipal. Do we stop and appreciate our green spaces, those ‘green lungs’ of the city, bordered by schools, suburbs, commerce and industry, or do we take them for granted?

Wake-up! We need to look after them, nurture them and multiply them. To this end, the creation of urban conservancies could go a long way. The concept of urban conservancies gives communities the opportunity to take ownership of their local natural habitat and to actively care for it.

To put its proverbial money where its mouth is, the Campaign has identified the large natural green area in the heart of Bloemfontein, Happy Valley, as a flagship project. It wants to demonstrate how it can make a difference as far as cleaning up is concerned, in a tangible and sustained way. Happy Valley stretches from the extension of Albrecht Street in the west, eastwards over the hill; over the extension of Brill Street and over the adjacent hill up to the townhouses served by Aliwal Street, including Signal Hill.



“ The Campaign has already launched clean-up actions in the Valley with volunteers, nearby residents, mountain bikers and business people lending a hand. Thanks, guys! ”

This natural green area in the heart of Bloemfontein is currently terribly polluted, with the natural environment evidently degenerating and with a number of homeless people residing in the undergrowth. According to reports, criminal activity is on the rise in this area, as is littering and the general degradation of the environment. The area falls under the jurisdiction of the Mangaung Metro Municipality, but obviously public support is also critical to its resuscitation.

The Campaign willingly offers its assistance to the Metro in tackling the challenge of rehabilitating the area and cementing the city's reputation as one befitting a modern, progressive 21st century metropolis. The potential for recreational activities, such as hiking, jogging and mountain-biking in the area is great, while ample academic research opportunities also present themselves. The Metro is on board and has undertaken to trim bushes and cut long grass in order to increase visibility in the area. The Campaign has already launched clean-up actions in the Valley with volunteers, nearby residents, mountain bikers and business people lending a hand. Thanks, guys!

Pertaining to security, BloemSec has agreed to maintain a security presence in the area.

EnviroTech SA, in cooperation with Hayley's Printers, has erected six branded litter drums at strategic points in Happy Valley to combat littering. This links up with the Campaign's drive for the formation of partnerships and synergy.

Once Happy Valley is back in shape, it is envisaged that urban rangers would be trained and empowered to see that the area stays in pristine condition; thus creating employment and giving the local private sector an opportunity for corporate social investment.

Only one aspect is still lacking: the local use and 'ownership' of the Valley. Come and use the space for responsible recreation, walk the dog, get rid of those extra kilojoules, enjoy the fresh air!

**Help us 'own' the Valley and preserve it for generations to come!**







# PRESERVE IT FOR GENERATIONS TO COME

The Clean & Green Free State Campaign







**GENTLE FOOTPRINTS  
TODAY WILL  
ENSURE A PATH  
FOR TOMORROW**



## Reducing our Carbon Footprint

We cannot keep on taking from the environment without putting back, and when we take, we should take less. This is the thinking behind one of the most exciting initiatives that the Campaign is associated with – the Qala Phelang Tala initiative.

Qala Phelang Tala means 'to start (living) green' and aims to make producers out of consumers...putting back rather than taking out. The initiative rests on the pillars of water security and efficiency; food security; sustainability, energy security and efficiency and recycling.



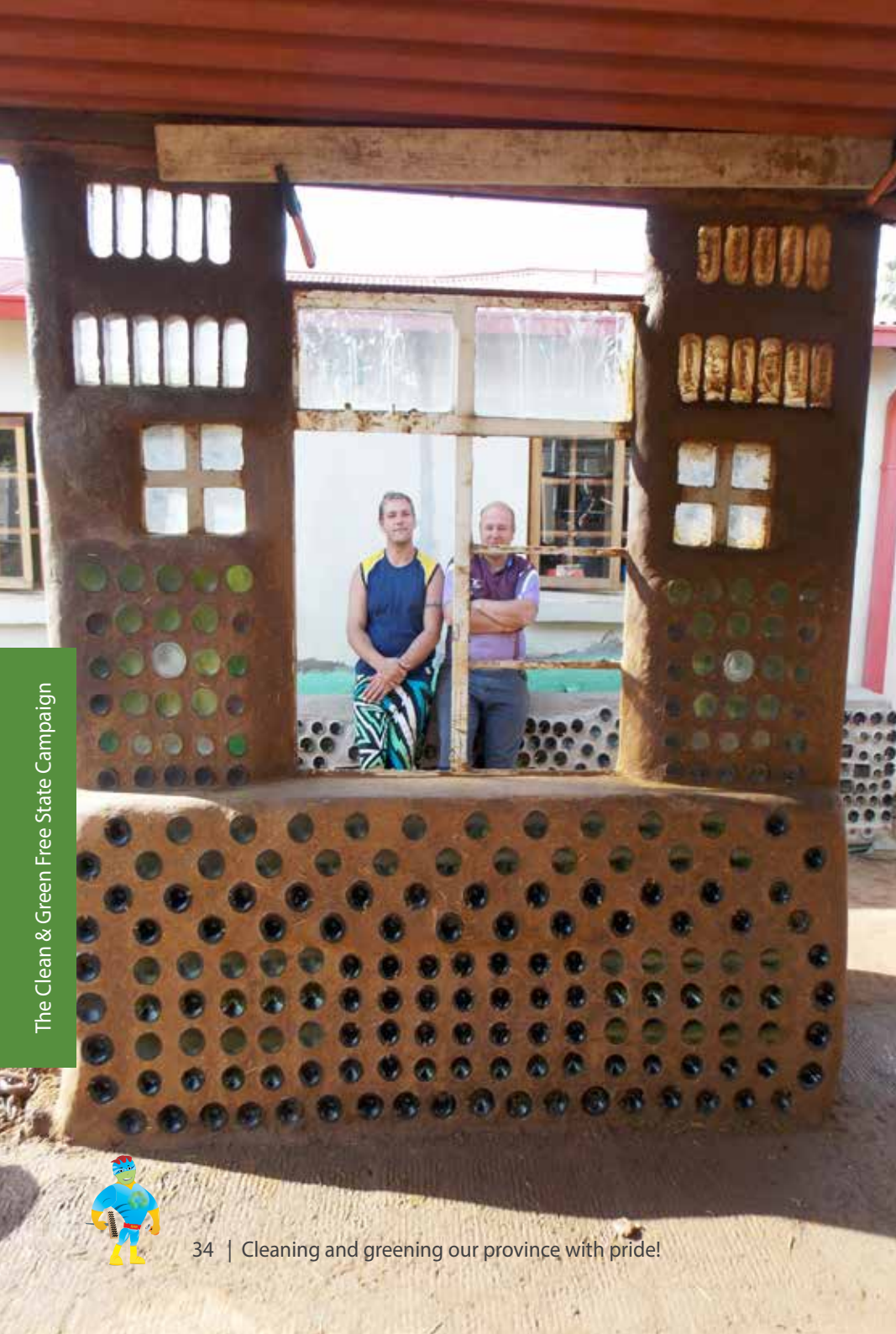
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Join the Campaign through its **Facebook** and **Twitter** pages...do it right away!

“ We cannot keep on taking from the environment without putting back, and when we take, we should take less. ”





**Let your thoughts go and imagine a settlement that:**

- Uses a minimum of electricity for heating, lighting and cooking;
- Recycles its water and harvests rain water; and
- Produces sufficient organic food to feed itself and also generates income through the sale of excess products.

Wishful thinking? Not for Qala Phelang Tala!

Through research, vigorous lobbying, partnership-building and a whole lot of time and muscle power – not to mention blood, sweat and tears – Qala Phelang Tala has initiated a number of local projects aimed at practising what they preach. This approach adheres to the argument of the Campaign that we should start doing and not just talk about challenges.

“ Qala Phelang Tala means ‘to start (living) green’...putting back rather than taking out. ”



## The Qala Phelang Tala Canaan House

This construction project at 9 Sedan Street, Bayswater, Bloemfontein, was driven by the initiative of Thabo Olivier, the owner of the property and fervent advocate for sustainability.

### The result of the project is an edifice:

- 70 m<sup>2</sup> large;
- Constructed from 572 discarded car tyres;
- Generating 5kw electricity through solar and wind energy;
- Recycling all grey water; and
- With a building cost of less than R12 000 and bond free!

The real challenge does, however, not lie in the construction of the house. The real work comes when local and provincial authorities are lobbied to approve such buildings under the regulations of current building codes. Once this hurdle has been crossed, banks, loan institutions and the insurance industry should be next in line!

Qala Phelang Tala does not stop there. Every house needs food for the inhabitants and the Qala Phelang Tala Canaan Garden adjacent to the house, gets the job done! Food security for households is of paramount importance – feeding families; growing respect for the soil; teaching about the use of resources and sustainability; and entrepreneurship through the sale of excess produce.

## Qala Phelang Tala Canaan Garden

This garden of 75 m<sup>2</sup> is a triple tier construction with a sky level, a hanging level and a conventional ground garden – in essence utilising 217.5 m<sup>2</sup> of space – proving that you can do a lot in a small space! The rainwater of the entire property is harvested through a network of drains and conserved in an underground reservoir, with all grey water also recycled. Crops grown include spinach, Chinese cabbage, carrots, beetroot, beans, peas and kale, all in a relatively compact space.

Qala Phelang Tala is determined to broaden the scope of this pilot project in order to support the idea of combining affordable housing with the production of own food and ultimately, employment. The project is an excellent example of what can be done at a local level while assisting in the attainment of the Millennium Development Goals, adding to the adage that we should: *Think global and act local!*

Now, of course, it does not help to sit on brilliant ideas like this! Good news should be spread and that is exactly what Qala Phelang Tala has done. In co-operation with the Free State Department of Agriculture and its Re Kgaba ka Diratswana project, a roll-out to a number of other Free State towns has been implemented. What was envisaged as a project for the establishment of 2 000 gardens, has rapidly grown to approximately 10 000 gardens in 17 Free State towns. This has piqued the interest of national, provincial and local spheres of government – a nice compliment to Free State innovation and vigour!



# THINK GLOBAL AND ACT LOCAL



After garden owners have secured their own needs, excess produce from the vegetable gardens could be sold to markets. One could even think of competitions for gardens in streets, wards and towns, with municipalities eventually competing for the title of: 'Best Green Municipality'.

For his fantastic efforts, Thabo was recently named the 'Greenest Councillor' in South Africa; a role-model for all those who want to do something on their own. Thabo is well and truly a man who *'walks the talk'*!

This Qala Phelang Tala initiative is regarded as a major achievement and is one of the highlights of the Campaign thus far, with Qala Phelang Tala taking pride of place as the best manifestation of the greening leg of the Campaign.

Two budding entrepreneurs, Lucky and Mokete Hlalele, have been trained at the site in aspects of sustainable urban food production and have become fully-fledged owners of a gardening services business. At the recent Re Kgaba ka Diratswana Award event held by the Free State Department of Agriculture, the two had a stall demonstrating some of their vegetable growing methods.

“ Now, of course, it does not help to sit on brilliant ideas like this! ”



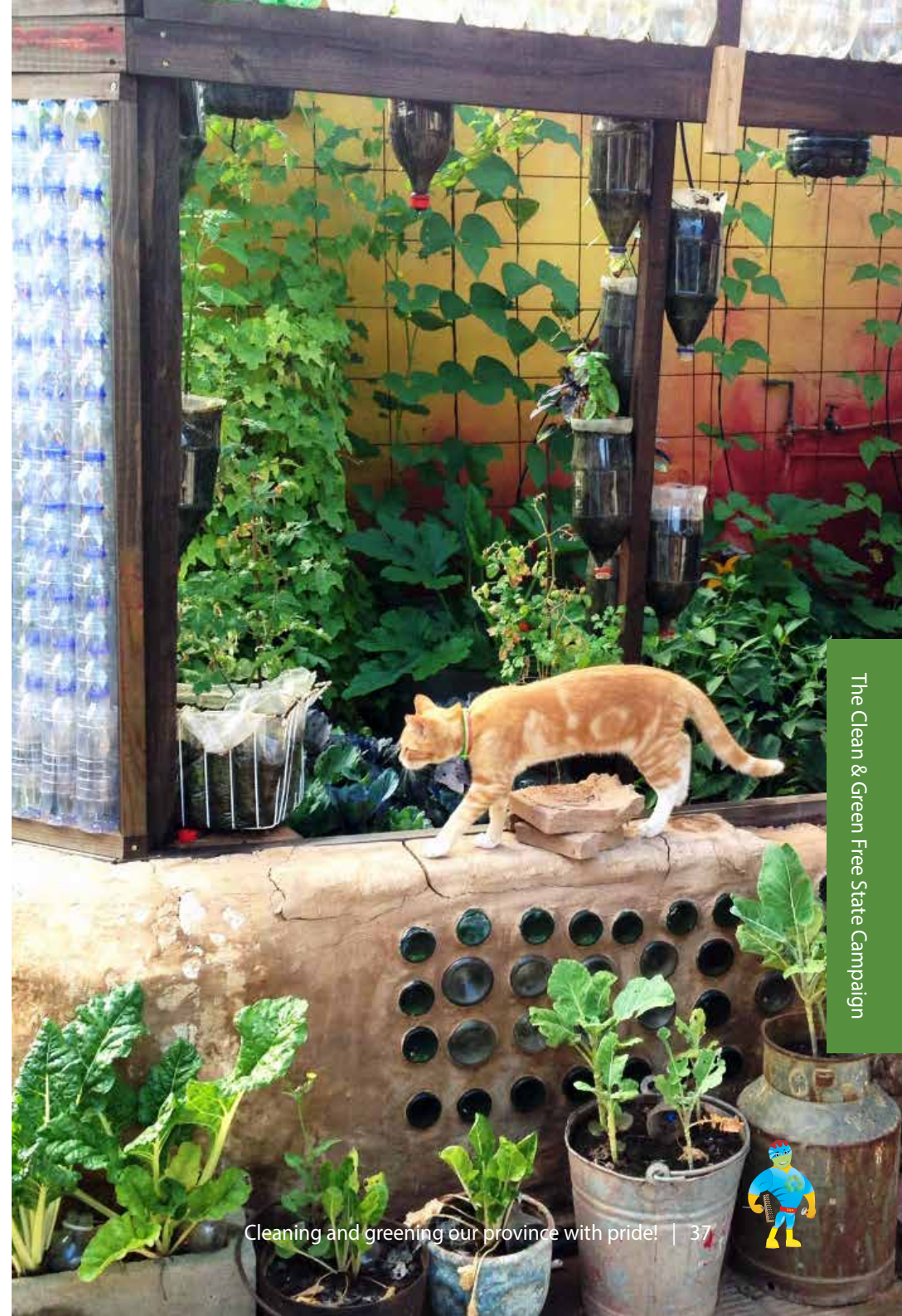
## Qala Phelang Tala Wilgehof Site

Yet, Qala Phelang Tala continues! In an effort to prove that the re-use and up-scaling of waste materials might be more feasible than recycling and that people should be made more aware of the amounts of waste material generated at work, Anita Venter initiated a project at her residence in Wilgehof, Bloemfontein.

The first action was to construct a greenhouse for the cultivation of fresh produce from waste materials. Most of the materials were generated by academic institutions in the city, local restaurants and the immediate neighbourhood of the project. With donations of more than 2 400 small and large plastic water bottles and 900 wine bottles; tyres, straw and unwanted soil, this project illustrates what can be gathered and utilised by a few role-players in a relatively small geographical area.

A mini hybrid survival earthship, an experiment with appropriate building technologies, is nearing completion, proving that there might be a number of solutions to low cost housing conundrums! A grey water reservoir and storage facility completes the current effort.

This initiative has evolved into an extensive research site looking into alternative building methods, vegetable production and the utilisation of grey water. See what you can use and how easy it is to get it! What is stopping you from doing the same?



## Jumping the Border to Gauteng

The Campaign is now even supporting initiatives in Gauteng! It has linked up with the Sisi Gogo Care Givers Centre in Toekomsrus, Randfontein, in a project aimed at building an environmentally friendly and climate change resilient house. The house will be complemented by a vegetable garden and supported by a whole community project. This centre was initiated in 2008 by Gertrude Simelane as a soup kitchen for children, the unemployed and the elderly and has evolved into becoming a social activity centre and a sewing training centre.

With assistance from the Dutch Reformed Church Randfontein North, Anita Venter and her Qala Phelang Tala team will get involved, drawing on the pioneering knowledge and skills gained from their re-use and up-cycling pilot projects in Wilgehof and Freedom Square

A win-win project across provincial boundaries!

**See – we are really getting out there!**

“ A win-win project across provincial boundaries! ”

## Database of Green Builders

Qala Phelang Tala is in the process of creating a database of companies, institutions, products and related service providers in the green building or green construction industry in the Free State. Persons interested can contact Tjaart van der Walt.

## Connecting with Students

Two lecturers at the University of the Free State's Department of Urban and Regional Planning, Drs. Maléne Campbell and Lize Barclay, have challenged students by exposing them to unconventional ideas and concepts regarding the environment. Students visited the Qala Phelang Tala Canaan Project and witnessed innovative solutions to domestic food production and water recycling.

Two rooms in the department were refurbished utilising reused and up-cycled materials. As part of their curriculum, two groups of students had to create an innovative space using materials such as wooden pallets, old furniture, bottles, glass, tyres and tin cans. The results of the project were so impressive that the rooms have been visited by a number of high profile delegations visiting the university. This experience has, no doubt, opened up a whole new world of possibilities to students who will have to deal with a resource-constrained and environmentally challenged world. It is initiatives such as these which the Campaign encourages whole-heartedly and with which it would like to cement links.





# CALCULATE YOUR CARBON FOOTPRINT

The Clean & Green Free State Campaign





# REDUCING ENVIRONMENTAL RISKS AND ECOLOGICAL THREATS

The Clean & Green Free State Campaign





## Entrepreneurship and Job Creation

So much is currently being spoken about the green economy, green jobs and green entrepreneurship. Do we really know what it is all about and the apparently immense possibilities locked up in these terms? Let's have a look at some of the definitions – our thanks to the International Labour Organization for supplying them from the United Nations Environmental Programme sources mentioned below.<sup>1</sup>



“The key aim for a transition to a green economy is to enable economic growth and investment, while increasing environmental quality and social inclusiveness.”

<sup>2</sup> United Nations Environment Programme (UNEP)  
(<http://www.unep.org/greeneconomy/aboutgei/whatisgei/tabid/29784/default.aspx>)



## What is a green economy?

A green economy is an economy which has low carbon emissions, is resource efficient, and is socially inclusive. A green economy is a means towards achieving sustainable development. The development path should maintain, enhance and where necessary, rebuild natural capital as a critical economic asset and as a source of public benefits. This is especially important for poor people whose livelihoods and security depend on nature.

The key aim for a transition to a green economy is to enable economic growth and investment, while increasing environmental quality and social inclusiveness. A green economy is therefore an economy that results in improved human well-being and social equity, while significantly reducing environmental risks and ecological threats.

## What are green jobs?

Green jobs are jobs which help to reduce negative environmental impacts, ultimately leading to environmentally, economically and socially sustainable enterprises and economies.

### More precisely, green jobs are decent jobs that:

- Reduce the consumption of energy and raw materials;
- Limit greenhouse gas emissions;
- Minimise waste and pollution, and
- Protect and restore ecosystems.

Green jobs need to be decent, which is often particularly challenging in occupations in waste management, agriculture and other precarious employment relationships. For that reason it is imperative that a decent work approach is taken regarding green jobs. Decent jobs are jobs which ensure basic human and labour rights, social protection and the right to exercise social dialogue for workers.





## Skills in the Green Economy

The greening of the economy arises from several factors; amongst other things, green policies and regulations, green technologies and green investments. A crucial factor to be considered in this process is the occupational changes this will cause in the workplace, and the effect the green economy will have on skills.

New and emerging green jobs mostly require higher-level qualifications and managerial skills, while changes in existing occupations happen more often at the low- and medium-skill levels. Many existing jobs, for example those of plumbers, electricians, metal workers, and construction workers, will be redefined as the day-to-day skill sets, work methods, and profiles are greened.

“ A green economy is an economy which has low carbon emissions, is resource efficient, and is socially inclusive. ”



# ASPIRE TO MAKE AN IMPACT

“ Successful enterprises are driven by passionate and committed entrepreneurs who recognise, create and seize opportunities. ”

## Green Entrepreneurship

Small- and medium-sized enterprises form the backbone of most economies, providing high levels of employment and contributing extensively to Gross Domestic Product growth. Successful enterprises are driven by passionate and committed entrepreneurs who recognise, create and seize opportunities to capitalise on them through a business. Thus, entrepreneurship results in innovation, as well as sustained economic and social development. Green entrepreneurs provide the source for starting and sustaining a green economy by providing green products and services, and creating jobs.

OK, so now that we are all educated about the green economy, where does it leave the Campaign? Through its efforts to train urban rangers and get recycling efforts on track, the Campaign has already put its weight behind job creation through green activities. The opening of pyrolysis and processing plants can add jobs in this crucial sector in the Free State.

Through its Free State enterPRIZE Job Creation Challenge, the biggest business plan competition in the province thus far, the International Labour Organization allowed entrepreneurs free reign as far as creativity is concerned, as well as in the environmental and social fields. Let us look at some of the fantastic ideas that the winning green entrepreneurs came up with in the 2013 Challenge!







**Quentin Eister: iGREENs**  
**Winner: Best Emerging Entrepreneur**

Based in Bloemfontein, iGREENs was established in 2011 when ISES, an engineering company based in Belgium, formed a strategic relationship with EisterCorp, a 100% black owned company. The aim of the relationship was to provide renewable energy solutions in South Africa and to the rest of the African continent. iGREENs is

ideally placed to adopt the ethos and intellect of a successful green European company by bringing together globally proven best practices with local knowledge.

iGREENs is committed to providing safe, clean and alternative energy in an integrated, cost-effective manner by offering solar energy, wind energy and green mobility for the commercial, industrial and agricultural sectors, as well as for household use. Based in Bloemfontein, iGREENs has the sole rights for South Africa to import, distribute and service the latest state-of-the-art alternative energy applications from its European suppliers.



**De la Harpe le Roux: Towers of Hope Leadership Foundation**  
**Runner up: Social Entrepreneurship**

Since October 2008, The Towers of Hope Leadership Foundation has been operating from the premises of the Twin Spire Church in the Bloemfontein Central Business District, focusing on serving the marginalised and unemployed poor of the city. Being aware of the environmental challenges for those

working and living in this area and realising the losing battle being fought by the municipality in keeping the city clean, Towers of Hope decided to act.

Business owners in the area, frustrated with an environment not conducive to progressive business practices were approached; the result was the concept of clean-up teams with a team connected to a specific business doing prescribed clean-up duties in the course of a weekly cycle – all while being paid a stipend and being equipped with much needed life skills.





**Leepo Tladi: African Sanitation**  
**Winner: Best Green Business**

African Sanitation's business is the eradication of the current bucket and pit-latrines systems; building top structure where needed; supplying solar powered dehydrated toilets; providing sanitation and hygiene education; and encouraging food gardening and composting. Located in Naudeville, Welkom, the enterprise has been

engaging with various provincial bodies and municipalities during the past three years, including a pilot program at Moemaneng Township, Marquard.

The solar powered dehydrated toilets are marketed under the brand name Afrisan Elite and include a number of groundbreaking features aimed at easy installation and maintenance, water conservation and hygiene. Current clients are municipalities in the Free State and beyond, while African Sanitation would also like to sell their solar powered toilets to hardware wholesalers and individuals interested in the product range.



**Johan Eksteen: Agricon Pelleting**  
**Second Place: Best Green Business**

The business concept of Agricon Pelleting arises from the fact that the pelletising of various materials can turn organic material, inorganic waste and various feedstuffs into excellent alternative energy sources. The compaction of these materials creates renewable sources of high quality

energy, while allowing for better handling of a previously problematic product.

Pelletising limits littering and the wastage of invaluable products by altering the loose material's physical form through a compaction process. It limits wastage by 30%, while increasing digestibility in animal feeding systems by 14%. With this concept in mind, Agricon Pelleting developed a unique range of pelletising machines used in biomass and/or waste compaction. The main target market of Agricon Pelleting is the small farmer and biomass pellet market.







**Willie Lombard: Jammerberg Organic Composting**  
**Third Place: Best Green Business**

As a business initiative, Jammerberg Organic Composting removes alien trees from the farm, Jammerbergdrift, bordering on the Caledon River in the Eastern Free State. The trees negatively affect the water supply to the Naledi Municipality. Their removal for organic composting provides a win/win scenario,

as it provides a combination of good environmental practices through the production of organic compost and the removal of the negative environmental impact of the alien trees.

Bamboo growth in the area will, in future, be put to use as compost, but will also be utilised for the manufacturing of bamboo-based furniture. Bamboo plants are resilient and recognised for their ability to withstand difficult growing conditions.

The project goes further in its green approach by making use of the municipality's waste water to irrigate the bamboo plantations, ensuring high levels of nutrients for the plants.



**Abraham Tumalets: Ikageng Ditamating**  
**Winner: Waste Recycling**

Ikageng Ditamating, a cooperative at Metsimaholo, Sasolburg, is managed by Abram Tumalets, and operates at the landfill site of the Metsimaholo Local Municipality. It could, however, soon relocate to new areas earmarked by the municipality.

The cooperative, with 40 members, picks up and sorts waste materials at the local landfill site. They currently focus on the collection of waste products, such as paper, plastics and bottles. The cooperative receives support from industry role-players, such as PACKSA, PETCO and Wasteplan.

The medium-term goal of Ikageng Ditamating Cooperative is to introduce a collection system for separated household waste in the Vaalpark residential area of Sasolburg, covering some 3 000 homes.

The cooperative is rolling out its business plan in two phases. The first phase entails servicing Vaalpark households using specially designed trolleys and doing the basic separation of the recyclable materials at a nearby drop-off site. The second phase will be to set up a complete material recycling facility at Vaalpark.





**André van Zyl: Rat Race Waste  
Second Place: Waste Recycling**

Having opened its doors in Bloemfontein nine years ago, Rat Race Waste is currently one of the few successful dry waste collectors and buy-back centres in Bloemfontein. Located at 22 Monument Road, Oranjesig, Bloemfontein, Rat Race Waste buys plastics, paper and bottles collected by street pickers from the southern

suburbs of Bloemfontein. The business has three vehicles collecting waste from local businesses, which is brought to their premises and sorted before being sold to larger collectors.

Starting off with only two employees, Rat Race has grown over the years and currently has three vehicles with two trailers and seven permanent employees. Some of the Rat Race Waste employees were street pickers before being employed for their knowledge in sorting waste. Through this innovation, Rat Race Waste is a true pioneering enterprise in the local recycling industry.





### **Caroline Kgomo: Meqheleng Waste Recyclers**

#### ***Third Place: Waste Recycling***

Meqheleng Waste Management (Pty) Ltd, based at Site 1043, Industrial Area, Ficksburg, specialises in the collection of glass waste and the transportation thereof to recyclers. The glass waste is collected from dumping sites, dwellings, taverns and restaurants, and is supplied to Consol. Over the medium term, the

company also plans to collect cardboard, cans, paper and plastic, once a baling machine has been obtained. Companies such as Petco, Mondi and Nampak could then be supplied on a more regular business basis.

Potential is huge, as it is calculated that 95% of waste collected by the Setsoto Local Municipality, is recyclable. If this waste could be recycled, it is estimated that 750 000 m<sup>2</sup> of landfill space could be saved per annum.

The founder and owner of Meqheleng Waste Management is Caroline Kgomo. She is currently assisted by three staff members and will endeavour to employ a further four people in the near future. The company has obtained an import permit and has started to import glass waste from Lesotho, processing it into new glass bottles with a view to supplying Maluti Mountain Breweries in Lesotho, which is currently importing glass from South Africa.

Reporting on these success stories makes the Campaign extremely proud! Here we have a group of Free Staters who took the initiative, thought creatively and set the ball rolling in entrepreneurial enterprises. They inspire us to reach for greater heights in our endeavours and make us green with envy, we must admit!

What are you waiting for? There are so many brilliant environmentally positive business ideas waiting to be exploited; just waiting to be identified, grabbed and implemented.

Good news! The 2014 Free State enterPRIZE Job Creation Challenge for all Free State based entrepreneurs or would-be entrepreneurs has kicked off again. Interested? Visit [www.enterprizejobchallenge.co.za](http://www.enterprizejobchallenge.co.za) and have a look!

“ There are so many brilliant environmentally positive business ideas waiting to be exploited; just waiting to be identified, grabbed and implemented. ”







**GREENER, MORE  
SUSTAINABLE  
LIFE-STYLE**





## A Little Bit More

The Campaign has been astounded by the initiative and passion of its partners in the drive for a greener and more sustainable life-style in the Free State. The Freedom Square Low Cost Housing Project is just one of those initiatives with which the Campaign is proud to be associated.



“ Let us make our mark here, there, and everywhere! ”

Have a look at what we are doing at [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za)  
and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



Join the Campaign through its **Facebook**  
and **Twitter** pages...do it right away!



## The Freedom Square Low Cost Housing Project

One of the major offshoots of the green economic drive is the green building concept. Much of this focus has been on large-scale, built-environment developments, with companies delving into more innovative ways of greening buildings by employing green retro-fitting techniques, or new materials and building solutions, ranging from lighting adaptations to water management.

However, some organisations and social entrepreneurs are now also beginning to encourage the adoption of greening concepts in informal settlements in an attempt to improve the living realities of citizens who do not have access to permanent conventional homes.

Anita Venter, a researcher at the Centre for Development Support at the University of the Free State and a member of the Steering Committee of the Campaign has conducted research on sustainable human settlements for her PhD. Venter is orientated towards action and practice and is a co-founder of the Qala Phelang Tala Project.

She is currently launching an innovative informal settlement housing project in Freedom Square, Mangaung. A prototype dwelling is being built from recycled materials and designed to function as a self-reliant, off-grid, tenure secured and eco-friendly dwelling. The prototype house is being erected on a property 299 m<sup>2</sup> in extent where, at present, a single mother with her high school daughter resides in a shack.

In phase 1 of the project, in partnership with a number of stakeholders, private sector sponsors and Volunteers for Change interns, a two-room house is being constructed for the resident. In phase 2 the shack will be demolished while the new house will be extended with more rooms and a bathroom. The new dwelling is to be complemented by a year-round garden cultivated with rain water, as well as grey water. The building technique is calculated to cost less than R20 000.

The overriding purpose of the pilot project is to prove that there is a low-cost, affordable, sustainable, and eco-friendly alternative to the conventional RDP housing concept. This will also form the subject of the Master's dissertation of Tjaart van der Walt, a town planning student at the University of the Free State.

Proving that we do not have to reinvent the wheel every time we try something new and that we can learn from the efforts of others, nationally and internationally, Venter is utilising building know-how that she learnt overseas – in Guatemala of all places! She has gained valuable information and experience from the Guatemalan visit; knowledge which she intends applying to projects in Bloemfontein and the Free State.

**Well...viva Guatamala, viva!!**





# CONSERVE THE WORLD'S BIOLOGICAL DIVERSITY

“...the World Wildlife Fund is one of the world's largest independent conservation organisations , with almost 5 million supporters.”

## Linking up with the WWF SA Climate Problem Solver

The mission of the World Wildlife Fund is to counter the degradation of the natural environment; to conserve the world's biological diversity; to ensure that the use of renewable natural resources is sustainable; and to promote the reduction of pollution and wasteful consumption.

As such, the World Wildlife Fund is one of the world's largest independent conservation organisations, with almost 5 million supporters and a global network active in over 100 countries. World Wildlife Fund South Africa as an NGO has been part of the international network for more than 40 years.

A comparison of the BASIC (i.e. Brazil, South Africa, India and China) nations indicates that South Africa is still the most energy-intensive country, with 95% of the country's electricity generated from coal and

75% of primary energy coming from coal. It is this drive towards cleaner technology that the WWF SA Climate Solver Platform wants to encourage and support.

Anita Venter has been accepted as a WWF SA Climate Solver Partner, representing both the University of the Free State and the Campaign. In this capacity she was involved in judging the WWF Climate Solver Awards for South Africa. The awards are aimed at assisting small business development and the commercialisation of innovations that reduce carbon emissions and boost access to alternative energy. This annual competition also gives environmentally orientated small businesses in the Free State an excellent opportunity to widen their experience and compete with the best in the country.

**Let us make our mark here, there, and everywhere!**







# WORK TOWARDS A GREENER ECONOMY





## Into the Future!

The Campaign is well aware that its efforts should not stand in isolation and should be linked to international, national and local undertakings and best practices.

The 1992 Rio Earth Summit, which was followed by the 2002 Johannesburg World Summit on Sustainable Development, provides a platform for the implementation of sustainability practices. The 2012 Rio+20 identifies the green economy and poverty, both in the framework of sustainable development, as the two main thrusts for South African government efforts.

### The South African National Strategy for Sustainable Development (2011 – 2014) identifies five strategic objectives:

- Enhancing systems for integrated planning and implementation;
- Sustaining our ecosystems and using natural resources efficiently;
- Working towards a green economy;
- Building sustainable communities; and
- Responding effectively to climate change. <sup>1</sup>

“ The Campaign is well aware that its efforts should not stand in isolation. ”

Have a look at what we are doing at [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za) and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



Join the Campaign through its **Facebook** and **Twitter** pages...do it right away!

<sup>1</sup> Republic of South Africa. Department of Environmental Affairs. Sustainable Development – National Strategy for Sustainable Development and Action Plan (NSSD) (<https://www.environment.gov.za/strategicissues/sustainablecommunities>)



“...the country “does not compare favourably” with other industrialised countries, which send only five percent of their waste to landfills and recover and recycle the rest.”

In fulfilling its mandate, the Free State Department of Economic Development, Tourism and Environmental Affairs has a formal delivery agreement with the Minister for Water and Environmental Affairs, as well as with Members of Executive Councils responsible for the environmental portfolio at provincial and municipal government levels.

**In terms of this delivery agreement, the following outputs are to be addressed, benefiting the management of environmental assets and natural resources:**

- Enhanced quality and quantity of water resources;
- Reduced greenhouse gas emissions, climate change impacts and improved air/atmospheric quality;
- Sustainable environmental management; and
- Protected biodiversity.<sup>2</sup>

Parliament recently passed the National Environmental Management Waste Amendment Bill, aiming at reforming the laws regulating waste management, in an effort to reduce the rapidly growing tonnage of waste ending up in landfills each year.

Environmental Affairs Minister, Edna Molewa, said that the adoption of a ‘reduce, re-use, recycle and recover’ strategy could help unlock a waste sector worth “a potential R50 billion”. Environmental Affairs Portfolio Committee chairperson, Johnny de Lange stated that of the 108 million tons of waste generated in South Africa each year, about 97 million tons, or 90% found its way into landfills. In this regard, the country “does not compare favourably” with other industrialised countries, which send only five percent of their waste to landfills and recover and recycle the rest.

Local experts have long warned about contamination and health risks from the poisonous chemicals that leak out of landfills and contaminate the soil and groundwater. Among other actions, the Bill is also to establish a Waste Management Agency.

Two important pieces of legislation pertaining to the environment in the Free State are being processed. The first is the Waste Amendment Bill which lays down new stipulations regarding various aspects of waste management. The second concerns amendments to the National Environmental Management Act as it is applicable to the Free State.

<sup>2</sup> Free State Department of Economic Development, Tourism and Environmental Affairs, Delivery Agreement – Management of Environmental Assets and Natural Resources ([http://www.edtea.fs.gov.za/?page\\_id=1379](http://www.edtea.fs.gov.za/?page_id=1379))





If you have any input to make contact Portia Khunou at 082 376 8383 or 051 407 1196/1233 or at [portiak@fsl.gov.za](mailto:portiak@fsl.gov.za) or have a look at [www.fsl.gov.za](http://www.fsl.gov.za).

“ Only by speaking out can you make a difference! ”

Critically important: The National Treasury has just published the Carbon Offsets Paper for public comment. This paper outlines proposals for a carbon offset scheme that will enable businesses to lower their carbon tax liability and make investments that will reduce greenhouse gas (GHG) emissions. The carbon offsets scheme is meant to complement the carbon tax to be introduced from 2016.

The proposed design of the carbon tax policy has been outlined in the *Carbon Tax Policy Paper: Reducing greenhouse gas emissions and facilitating the transition to a green economy*.

Offsets could include, among a wide range of others, investment in small-scale afforestation, municipal waste projects, public transport, fuel switching projects and energy efficiency measures. Full details are contained in the paper, which can be viewed at [www.treasury.gov.za/publiccomments/carbonOffsets/](http://www.treasury.gov.za/publiccomments/carbonOffsets/).

All written comments should be submitted to Peter Janoska, at e-mail [peter.janoska@treasury.gov.za](mailto:peter.janoska@treasury.gov.za).







**GET INVOLVED  
RECYCLE AT  
SOURCE!**





## Wrapping Up!

The Clean & Green Free State Campaign is proud to be aligned with national, provincial and local priorities as far as environmental management is concerned and is looking forward to cooperating with all dedicated agencies in future.

Only through partnerships with all concerned can the aims of the Campaign be reached. The hand of the Campaign extends to all who want to actively contribute to a greener and cleaner Free State, no matter how large or small your input is! Have a look at our aims again.

The Campaign is proud of the brand identity that it has created and wishes to expand its identity and presence to all areas in the Free State.

- **NGOs** – we need your footprint and presence in the communities!
- **Individuals** – we need your dedication and creative ideas!
- **Businesses** – we need your corporate social investment and business acumen!
- **To every Free State resident** – we need you not to litter in your province but to deposit litter in and at the correct places. Keep the immediate areas around your dwelling and place of work clean!

### Recycle at source!

Help us to turn the tide of waste in the Free State by establishing job-creating, enterprise-promoting pyrolysis and processing plants in the province.

Through this Campaign we can set an example to the rest of the country, aiming at a cleaner and better South Africa!

**Get involved – contact those mentioned below; join us, and get stuck in!**







**JOIN US,  
AND GET  
STUCK IN!**





## Join Us!

The Campaign offers a range of activities to support and in which to get involved, no matter who you are! Pick an area that interests you and where you fit in best. Come and lend a hand...or a Rand! We would love to be able to add your name to the list.

- **Working Group for Marketing & Awareness**  
Johann Dannhauser @ 051 436 0550 / 082 773 2150 or [emarket@emarket.co.za](mailto:emarket@emarket.co.za)
- **Working Group for Recycling and Pyrolysis Plants**  
Duane de Lange @ 083 264 5289 or [duane@enviro-techsa.co.za](mailto:duane@enviro-techsa.co.za)
- **Working Group for Re-Use and Up-Cycling**  
Anita Venter @ 051 401 3731 or [anita@flowerfountain.co.za](mailto:anita@flowerfountain.co.za)
- **Working Group for Happy Valley**  
Tjaart van der Walt @ 074 100 6808 or [tjaart1000@gmail.com](mailto:tjaart1000@gmail.com)
- **Working Group for Heidedal**  
Brenda Buys @ 083 274 9140 or [beezab@vodamail.co.za](mailto:beezab@vodamail.co.za)
- **Working Group for Bloemfontein Central Business District**  
De la Harpe le Roux @ 051 430 4274 / 083 232 1051 or [dvleroux@telkomsa.net](mailto:dvleroux@telkomsa.net)
- **Working Group for the Matjhabeng Municipal Area**  
Peter Jooste @ 071 417 7067 or [peej@mtnloaded.co.za](mailto:peej@mtnloaded.co.za)

Have a look at what we are doing at [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za) and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)



Join the Campaign through its **Facebook** and **Twitter** pages...do it right away!



## Visit our Website

The Campaign is proud to announce that you will be able to follow our activities on our newly designed website, updating you on all the exciting developments and initiatives all around us! Keep up to date by visiting us on [www.cleangreenfs.co.za](http://www.cleangreenfs.co.za) and get hold of us at [info@cleangreenfs.co.za](mailto:info@cleangreenfs.co.za)





# Join Us on Facebook and Twitter

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 [www.facebook.com/CleanGreenFS](http://www.facebook.com/CleanGreenFS)

 [@CleanGreenFS](https://twitter.com/CleanGreenFS)









“ Earth is no longer an infinite reservoir, an infinite source of resources and an infinite receiver of waste. ”

*Earth has become a space ship, not only in our imagination, but also in the hard realities of the social, biological, and physical systems in which mankind exists. Long ago, when mankind was small in numbers and earth was deemed to be large, he could pollute it with impunity, though even then he frequently destroyed his immediate environment and had to move on to a new spot – which he then proceeded to destroy anew! Man can no longer do this; he must live in the whole integrated system, recycling his wastes and facing up to the challenge posed by the increase in discarded material which his activities create. Earth is no longer an infinite reservoir, an infinite source of resources and an infinite receiver of waste.*

*Remember, in a space ship there are no sewers!*

*Adapted from Kenneth E Boulding (1910 - 1993)*

Well, there you have it. The Campaign is an excellent example of a group of people not waiting for something to happen, but making something happen themselves – locally, with locals and for locals. **Come on – be part of something big!**

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