

The Otji-Toilet



**Different Designs
One System**

The Otji-Toilet

In Namibia water is a scarce resource. In some parts the water must be taken from over 110 m of depth. This can only be done with an enormous energy input and has as consequence an increasingly falling groundwater level.



Problem - Water Scarcity

The Otji-Toilet offers an ecological and economical alternative – an innovative system that helps saving water and money.

Water for people - YES!

The Otji-Toilet

Water for toilets — NO!



IMPACTS

- Hygienic Sanitation - Health Improvement
- Minimized Running Costs – Poverty reduction
- Simple System - Easy to maintain
- Local namibian product – Job creation
- Environmental friendly – Sustainable
- Independent from Water Net – No cost
- Independent from Sewage – Low cost
- Independent from Electricity Net – No cost



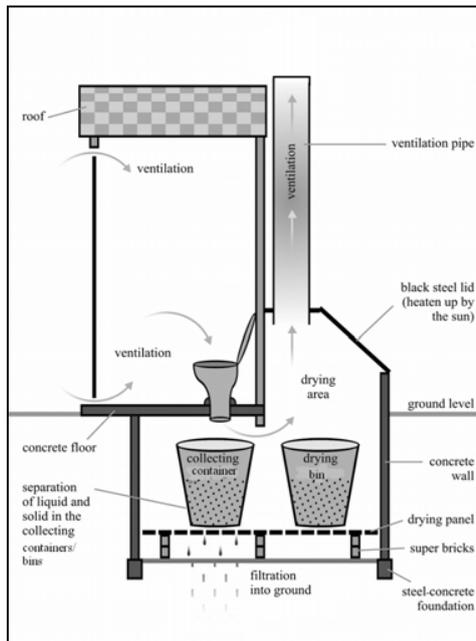
The Otji-Toilet is a reasonable, hygienic, long-term solution for a higher living comfort now and in the future

The Otji-Toilet

A perforated container as collecting device under the toilet pot separates solid from liquid. The solid stays in the container while the liquid runs through a perforated concrete panel underneath the container, from where it filtrates into the ground. After approximately six months the container is filled up with solid.

Using a hook, it can easily be moved to the drying area of the installation without entering the tank. There, it will dry out completely and then reduce volume and weight while a second container is collecting the droppings under the toilet pot. After another six months, when the second container is full, the dry solid will be removed from the first container, which can be used again for the next turn. Access is gained by a black metal lid on the backside. The toilet will never fill up, neither with solid nor with liquid. Due to the perforated concrete panel, the tank stays clean and hygienic all the time. A sun based ventilation-system at the back of the toilet provides fresh air, which keeps it dry and ensures an odorless use.

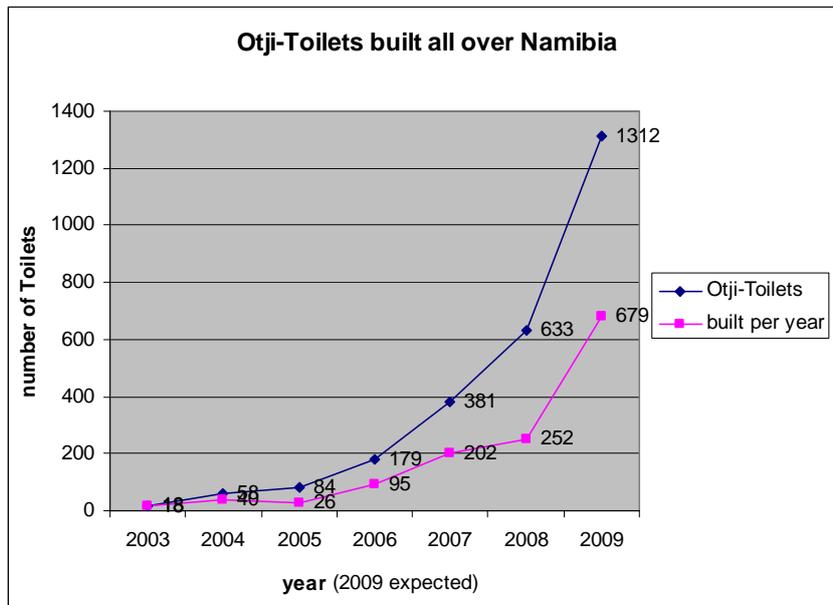
After a while the dried solid can be used as a worthy fertilizer.



... one Otji-Toilet saves up to 160 N\$ on water cost monthly. Enough money to provide a family with 25 kg maize meal every month.

The Otji-Toilet

Sanitation without water becomes mainstream



While a Otji-Toilet saves yearly 90.000 Litre of drinking water, 20.000 flush toilets waste the water of the whole Avis Dam in Windhoek in a year.



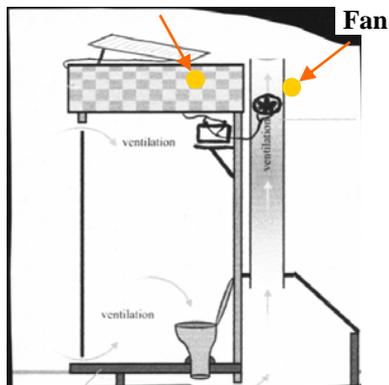
Inside the house:

A simple solar operated ventilation system can be installed, so that the toilet can be built indoors, providing modern living comfort.

The solar panel on the roof saves in 3-4 hours enough energy to feed an accumulator and a connected fan for 24 hours of ventilation.

This system works completely independent from water and electricity networks – everywhere!

Solar panel



The latest technology...

...for



comfortable living standards to affordable prices



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